

Our Ref:
3995-PON

Your Ref:

Date:
15-04-2025

Lotherton Court
Lotherton Way
Garforth
Leeds
LS25 2JY

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Housing 21
Extra Care Facility
Kenmore Drive, Cleckheaton



Summary of External Lighting Strategy

General:

External lighting is to be provided for the illumination of outside spaces at the site including car park, roadways, landscaped areas, entrance canopies, building periphery and door exit points.

Luminaires shall be in the form of 5-metre-high column mounted lanterns, low level 1-metre-high bollards and building mounted bulkheads to suit. These are detailed on the layout drawings and generally as follows: -

- 1) Roadways/Car Park – Column mounted Lanterns
- 2) Walkways, landscaped areas, periphery – Bollards supplemented by column mounted lanterns.
- 3) Door exit points - Bulkheads

Electrical supplies to the external lighting are to be from local distribution boards to suit location and practicality.

Additional column mounted lanterns will be installed in certain areas to meet the secure by design requirements.

Lighting Control/Switching:

(Photocell/Timeclock/Manual Override)

The lighting circuits will be connected via contactors to allow for common control equipment to be adopted.

At each supply distribution point, the column mounted, building mounted and bollard luminaires will be circuited and controlled separately.

The lighting will be controlled via building mounted photocell and multi-channel timeclock allowing for the columns, bollards and bulkheads to be energised, during chosen hours of darkness. The chosen hours of illumination can be set and adjusted.

Date	Revision Details	Ref.
13.03.25	ISSUED FOR APPROVAL	P01
08.04.25	PIPE & DUCT ROUTES ABOVE CAR PARK AMENDED IN LINE WITH CLIENT'S COMMENTS	P02
15.04.25	SECURE BY DESIGN LUMINAIRE ADDED TO NORTH WEST CORNER OF THE SITE AND ASSOCIATED DUCT ROUTES AMENDED.	P03
25.04.25	CANOPY & BUILDING PERIMETER LIGHTING ADDED	P04

LEGEND

- 1100mm (W) x 1294mm (H) x 400mm (D) EXTERNAL FEEDER PILLAR SUPPLIED & INSTALLED BY OTHERS
- 40W LED LANTERN MOUNTED ON 5M COLUMN
- 2x 40W LED LANTERN MOUNTED ON 5M COLUMN
- 40W LED LANTERN WITH ASYMMETRIC OPTIC MOUNTED ON 5M COLUMN
- 15W LED LANTERN WITH ASYMMETRIC OPTIC MOUNTED ON 5M COLUMN
- 15W LED LANTERN MOUNTED ON 5M COLUMN
- 7.5W LED QUARTO 2.0 WALL MOUNTED BULKHEAD WITH STREET OPTIC WITH EMERGENCY MOUNTED AT 3.5M
- 4W LED 4000K RAY SHORT 110 RECESSED DOWNLIGHTER WITH 48° BEAM
- 4W LED 4000K RAY SHORT 110 RECESSED DOWNLIGHTER WITH 48° BEAM WITH EMERGENCY
- 4W LED LOW LEVEL BOLLARD (1M HIGH)
- WALL MOUNTED FLOODLIGHT SLIMLINE GUARDIAN 8W 3000K
- CAR CHARGER
- 300mm x 300mm DRAW PIT
- 600mm x 600mm DRAW PIT
- 1000mm x 1000mm DRAW PIT
- 50mm CABLE DUCT (300 - 600mm TOP OF DUCT BFFL)
- 75mm CABLE DUCT (300 - 600mm TOP OF DUCT BFFL)
- 100mm CABLE DUCT (300 - 600mm TOP OF DUCT BFFL)
- 150mm CABLE DUCT (300 - 600mm TOP OF DUCT BFFL)
- 32mm MDPE PIPE CAT5 BCWS (750 - 1350mm CENTRE OF PIPE BFFL)
- 50mm PRE-INSULATED HEATING F&R (450mm CENTRE OF PIPE BFFL)

NOTES

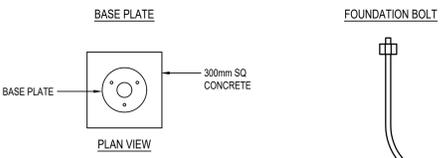
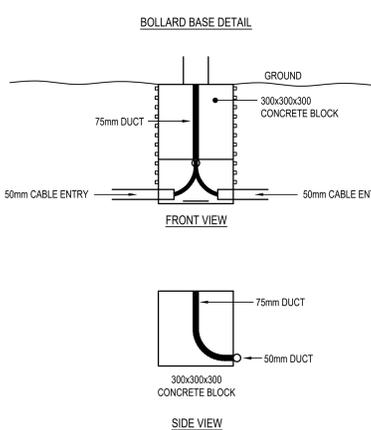
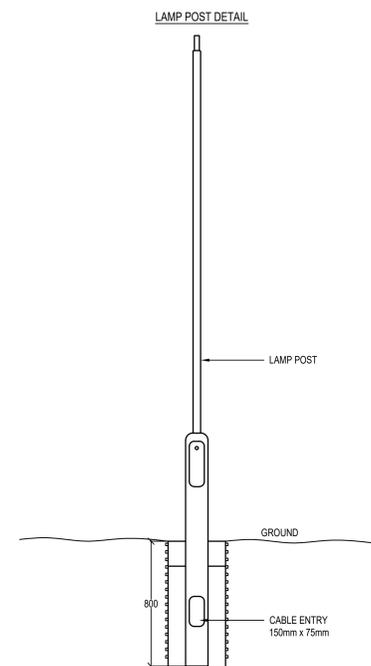
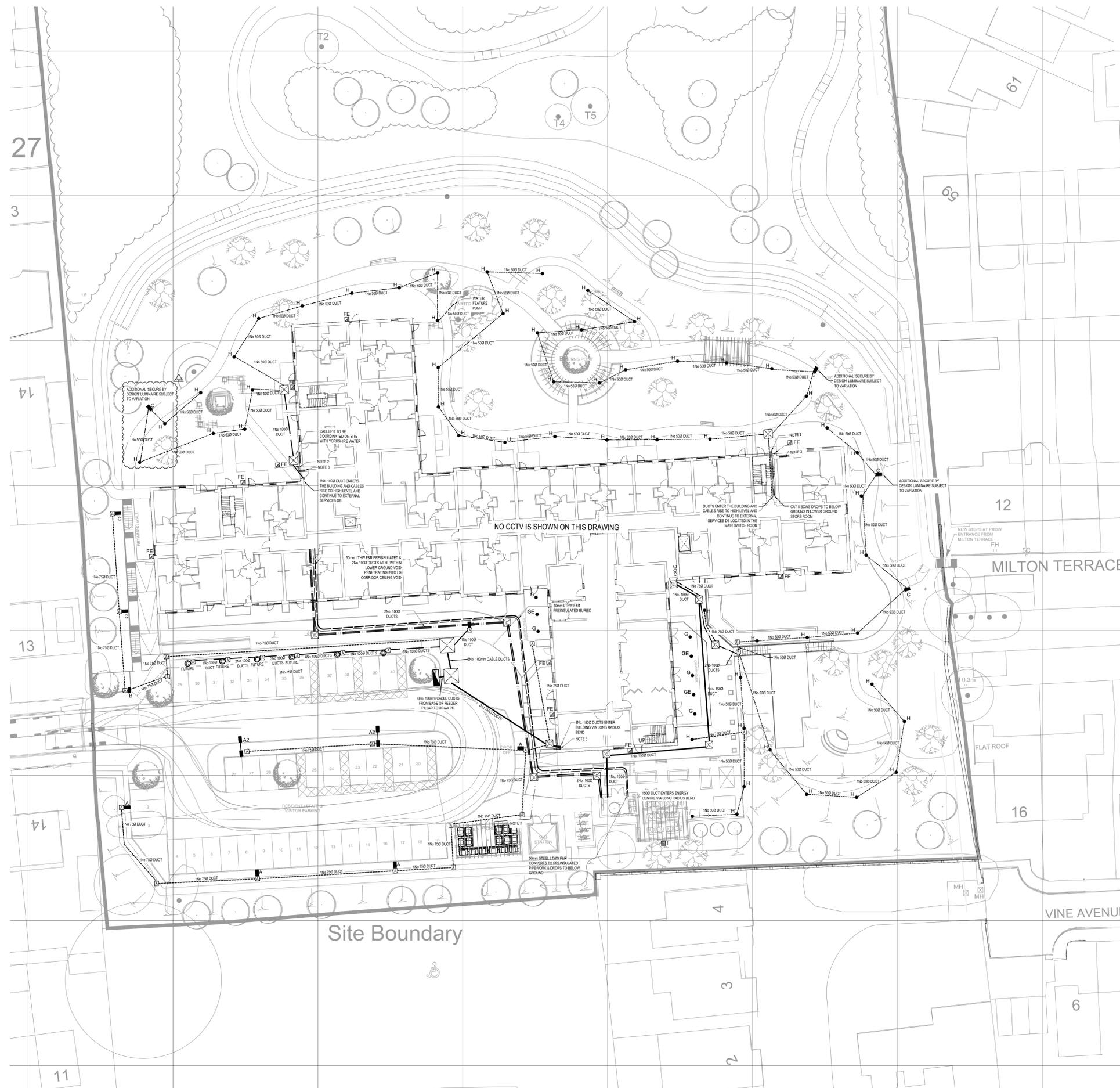
- DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE
- 320 MDPE CAT 5 BCWS CONVERT TO 150 COPPER AT LL & CONNECT TO EXTERNAL BIT BIP
- SECTION OF 1500 DUCT REQUIRED TO ROUTE MDPE PIPEWORK INTO BUILDING
- WHERE LV DUCTS CROSS OR ARE UNDER ROADS THEY MUST BE SET TO 600mm DEPTH TO TOP OF DUCT

FOR APPROVAL



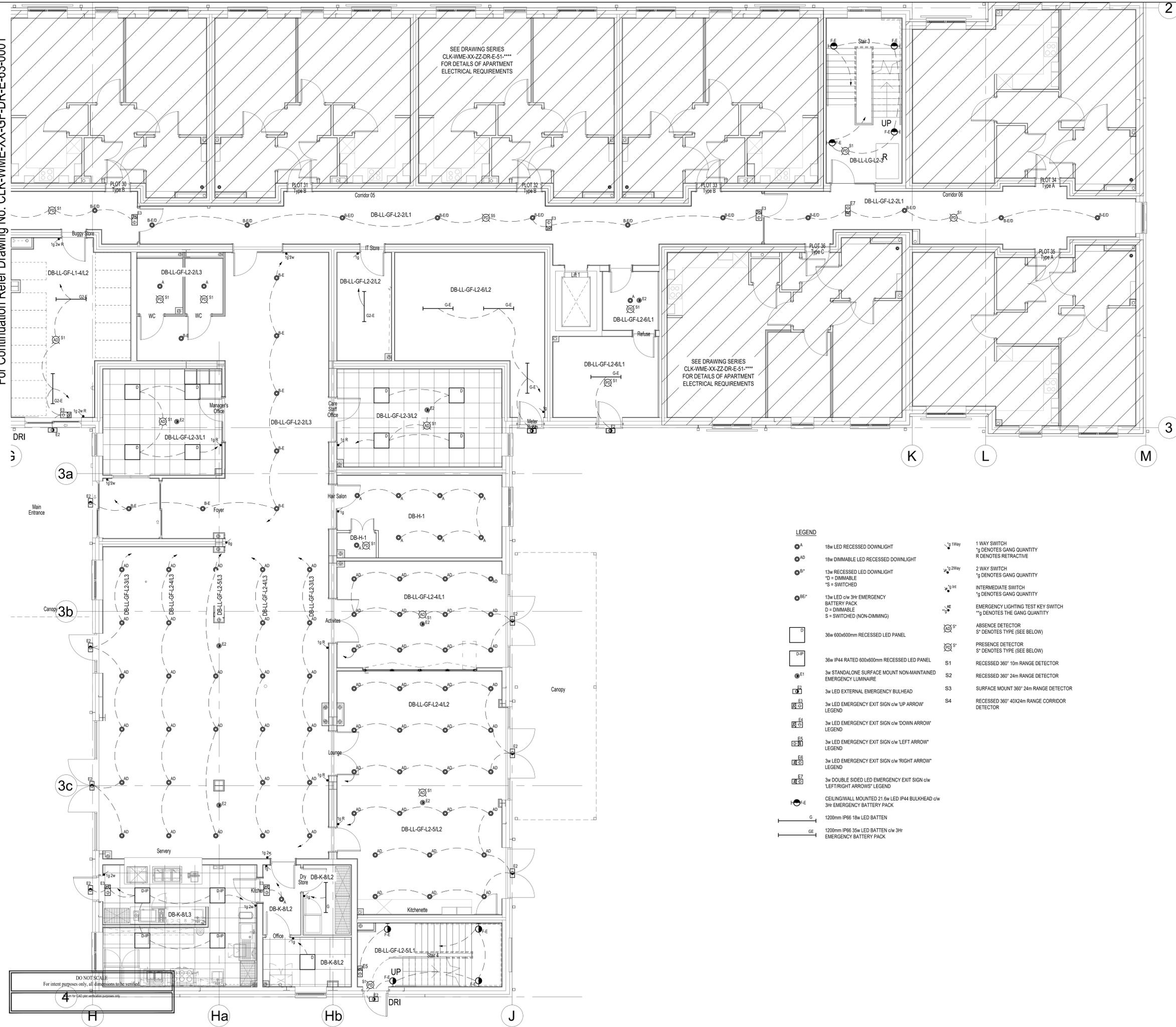
Lobsteron Court, Lobsteron Way, Garforth, Leeds LS25 3JY
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Client	Robertson Construction	
Architect	BBA	
Consultant	Davies Partnership	
Project	Extra Care Home	
Location	Kenmore Drive, Cleckheaton	
Title	M&E SERVICES Combined Below Ground Services Layout	
Scale:	1:200	Original Size: A0
Drawn:	DW	Designed: GRI
Checked:	PR	Date: 03/03/25
Drawing ref:	CLK-WME-XX-EX-DR-ME-70-0001	Revisions: P01 P02 P03 P04



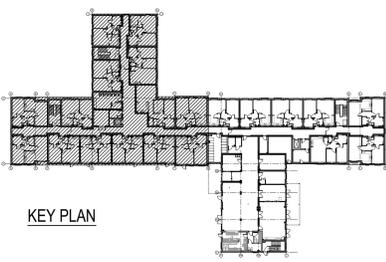
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For Continuation Refer Drawing No. CLK-WME-XX-GF-DR-E-63-0001



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Date	Revision Details	Ref.
08.11.24	ISSUED FOR APPROVAL	P01
24.01.25	UPDATED IN LINE WITH CLIENT'S COMMENTS	P02
28.02.25	APARTMENT OVER-DOOR LIGHTING OMITTED	P03



KEY PLAN

LEGEND

● A	18w LED RECESSED DOWNLIGHT	1g 1Way	1 WAY SWITCH "g" DENOTES GANG QUANTITY R DENOTES RETRACTIVE
● AD	18w DIMMABLE LED RECESSED DOWNLIGHT	2g 2Way	2 WAY SWITCH "g" DENOTES GANG QUANTITY
● B	13w RECESSED LED DOWNLIGHT "D" = DIMMABLE "S" = SWITCHED	g Int	INTERMEDIATE SWITCH "g" DENOTES GANG QUANTITY
● SE	13w LED c/w 3H EMERGENCY BATTERY PACK D = DIMMABLE S = SWITCHED (NON-DIMMING)	g E	EMERGENCY LIGHTING TEST KEY SWITCH "g" DENOTES THE GANG QUANTITY
D	36w 600x600mm RECESSED LED PANEL	S'	ABSENCE DETECTOR S' DENOTES TYPE (SEE BELOW)
D-IP	36w IP44 RATED 600x600mm RECESSED LED PANEL	P'	PRESENCE DETECTOR S' DENOTES TYPE (SEE BELOW)
E1	3w STANDALONE SURFACE MOUNT NON-MAINTAINED EMERGENCY LUMINAIRE	S1	RECESSED 360° 10m RANGE DETECTOR
E2	3w LED EXTERNAL EMERGENCY BULHEAD	S2	RECESSED 360° 24m RANGE DETECTOR
E3	3w LED EMERGENCY EXIT SIGN c/w 'UP ARROW' LEGEND	S3	SURFACE MOUNT 360° 24m RANGE DETECTOR
E4	3w LED EMERGENCY EXIT SIGN c/w 'DOWN ARROW' LEGEND	S4	RECESSED 360° 40x24m RANGE CORRIDOR DETECTOR
E5	3w LED EMERGENCY EXIT SIGN c/w 'LEFT ARROW' LEGEND		
E6	3w LED EMERGENCY EXIT SIGN c/w 'RIGHT ARROW' LEGEND		
E7	3w DOUBLE SIDED LED EMERGENCY EXIT SIGN c/w 'LEFT/RIGHT ARROWS' LEGEND		
E-E	CEILING/WALL MOUNTED 21.6w LED IP44 BULKHEAD c/w 3H EMERGENCY BATTERY PACK		
G	1200mm IP66 18w LED BATTEN		
GE	1200mm IP66 35w LED BATTEN c/w 3H EMERGENCY BATTERY PACK		

DO NOT SCALE
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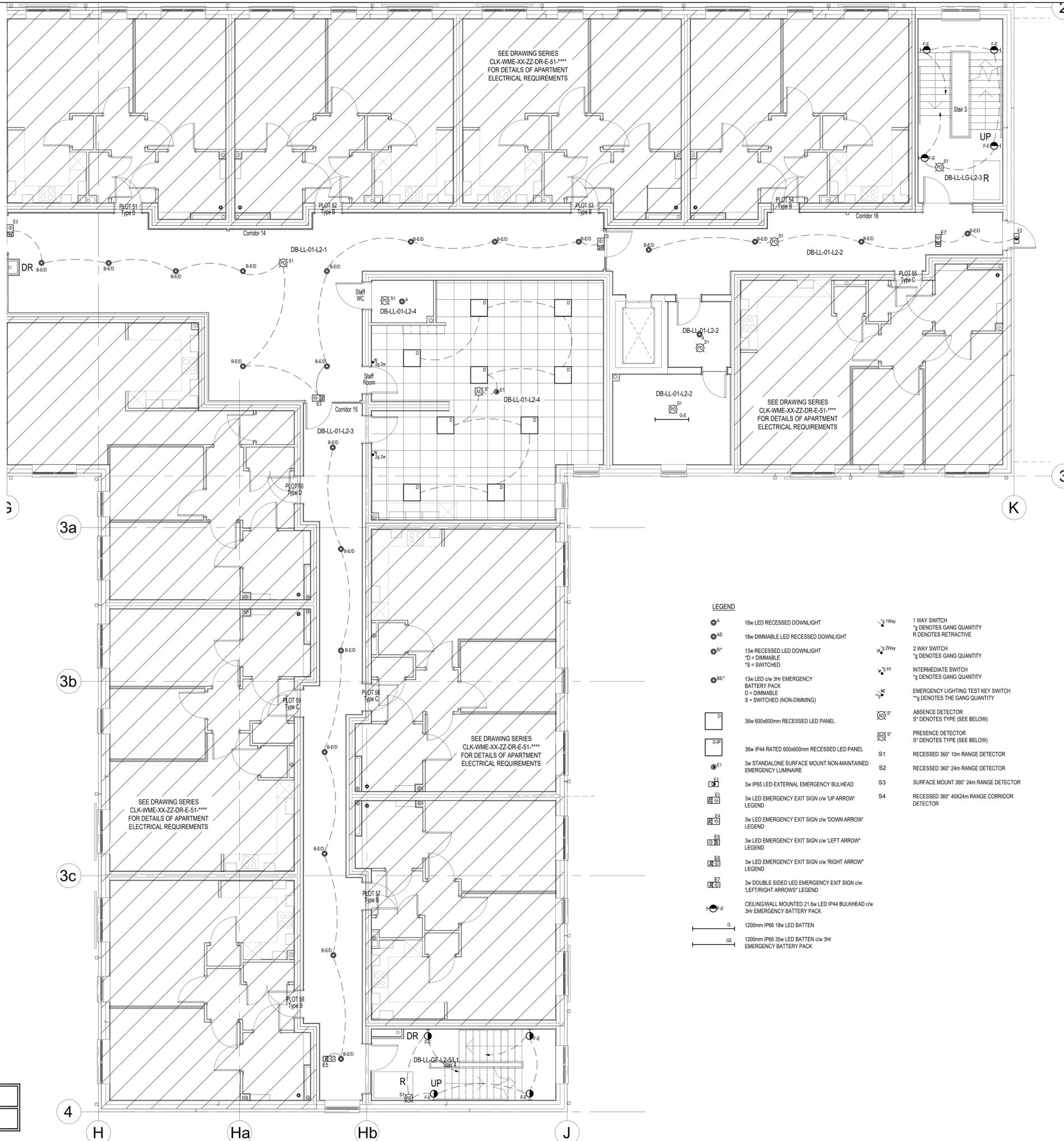
FOR APPROVAL



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Client	Robertson Construction		
Architect	BBA		
Consultant	Davies Partnership		
Project	Extra Care Home		
Location	Kenmore Drive, Cleckheaton		
Title	ELECTRICAL SERVICES Ground Floor Lighting & Emergency Lighting Layout - Sheet 2 of 2		
Scale:	1:50	Original Size: A0	Date: 13/08/24
Drawn:	DW	Designed: GRI	Checked: GRI
Drawing ref:	CLK-WME-XX-GF-DR-E-63-0002		Revisions:
			P01/P02/P03

For Continuation Refer Drawing No. CLK-WME-XX-01-DR-E-63-0001

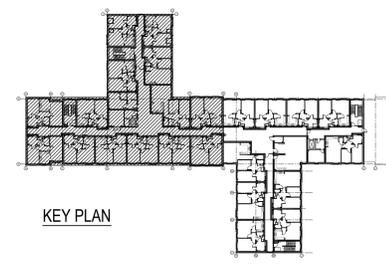


LEGEND

● ^A	18w LED RECESSED DOWNLIGHT	↘ 1Way	1 WAY SWITCH "g" DENOTES GANG QUANTITY "R" DENOTES RETRACTIVE
● ^{AD}	18w DIMMABLE LED RECESSED DOWNLIGHT	↘ 2Way	2 WAY SWITCH "g" DENOTES GANG QUANTITY
● ^{B*}	13w RECESSED LED DOWNLIGHT "D" = DIMMABLE "S" = SWITCHED	↘ 3Way	INTERMEDIATE SWITCH "g" DENOTES GANG QUANTITY
● ^{BE*}	13w LED c/w 3Hr EMERGENCY BATTERY PACK "D" = DIMMABLE "S" = SWITCHED (NON-DIMMING)	⊙ ^g S ¹	EMERGENCY LIGHTING TEST KEY SWITCH "g" DENOTES THE GANG QUANTITY
□ ^D	36w 600x600mm RECESSED LED PANEL	⊙ ^g S ²	ABSENCE DETECTOR "S" DENOTES TYPE (SEE BELOW)
□ ^{D-IP}	36w IP44 RATED 600x600mm RECESSED LED PANEL	⊙ ^g S ³	PRESENCE DETECTOR "S" DENOTES TYPE (SEE BELOW)
⊙ ^{E1}	3w STANDALONE SURFACE MOUNT NON-MAINTAINED EMERGENCY LUMINAIRE	S1	RECESSED 360° 10m RANGE DETECTOR
⊙ ^{E2}	3w IP65 LED EXTERNAL EMERGENCY BULHEAD	S2	RECESSED 360° 24m RANGE DETECTOR
⊙ ^{E3}	3w LED EMERGENCY EXIT SIGN c/w "UP ARROW" LEGEND	S3	SURFACE MOUNT 360° 24m RANGE DETECTOR
⊙ ^{E4}	3w LED EMERGENCY EXIT SIGN c/w "DOWN ARROW" LEGEND	S4	RECESSED 360° 40X24m RANGE CORRIDOR DETECTOR
⊙ ^{E5}	3w LED EMERGENCY EXIT SIGN c/w "LEFT ARROW" LEGEND		
⊙ ^{E6}	3w LED EMERGENCY EXIT SIGN c/w "RIGHT ARROW" LEGEND		
⊙ ^{E7}	3w DOUBLE SIDED LED EMERGENCY EXIT SIGN c/w "LEFT/RIGHT ARROWS" LEGEND		
⊙ ^E	CEILING/WALL MOUNTED 21.6w LED IP44 BULKHEAD c/w 3Hr EMERGENCY BATTERY PACK		
— ^G	1200mm IP66 18w LED BATTEN		
— ^{GE}	1200mm IP66 35w LED BATTEN c/w 3Hr EMERGENCY BATTERY PACK		

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08.11.24	ISSUED FOR APPROVAL	P01
24.01.25	UPDATED IN LINE WITH CLIENT'S COMMENTS	P02
28.02.25	APARTMENT OVER-DOOR LIGHTING OMITTED	P03



KEY PLAN

DO NOT SCALE
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FOR APPROVAL

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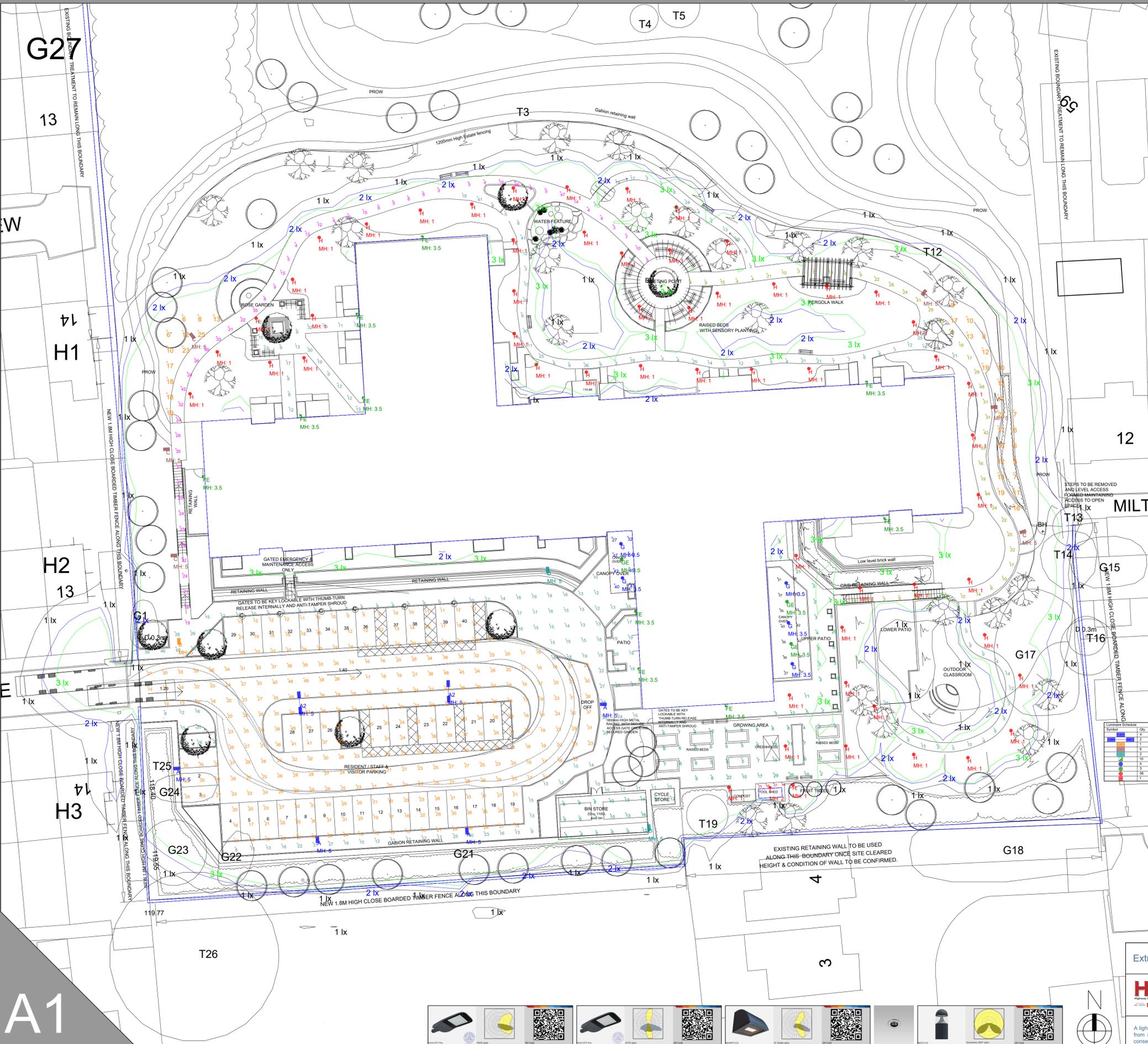
Client	Robertson		
Architect	BBA		
Consultant	Davies Partnership		
Project	Extra Care Home		
Location	Kenmore Drive Cleckheaton		
Title	ELECTRICAL SERVICES First Floor Landlord's Lighting & Emergency Lighting Layout - Sheet 2 of 2		
Scale:	1:50	Original Size:	A0
Date:	13/08/24		
Drawn:	DW	Designed:	GRI
Checked:	GRI		
Drawing ref:	CLK-WME-XX-01-DR-E-63-0002	Revisions:	

Dimensions are not to be scaled from this drawing



Kingfisher Lighting

Part of the Luceco PLC group of companies **LUCECO**



Project Number: 399191 | Project Title: Extra Care Home Kenmore Drive Cleckheaton | Date: 09/01/2025 | Kingfisher Lighting

BREEM® BREEM New Construction 2018 (UK)

REQ 01 - External Lighting

REQ 02 - Energy Efficient External Lighting

REQ 03 - Visual Comfort

BREEM Summary

Category	Requirement	Compliance Status
External Lighting	REQ 01	Pass
Energy Efficient External Lighting	REQ 02	Pass
Visual Comfort	REQ 03	Pass

Compliance Status Summary

Category	Requirement	Compliance Status
External Lighting	REQ 01	Pass
Energy Efficient External Lighting	REQ 02	Pass
Visual Comfort	REQ 03	Pass

Project Number: 399191 | Project Title: Extra Care Home Kenmore Drive Cleckheaton | Date: 09/01/2025 | Kingfisher Lighting

BREEM® BREEM New Construction 2018 (UK)

BREEM Summary

Category	Requirement	Compliance Status
External Lighting	REQ 01	Pass
Energy Efficient External Lighting	REQ 02	Pass
Visual Comfort	REQ 03	Pass

Compliance Status Summary

Category	Requirement	Compliance Status
External Lighting	REQ 01	Pass
Energy Efficient External Lighting	REQ 02	Pass
Visual Comfort	REQ 03	Pass

Lighting Schedule

Symbol	Qty	Label	Arrangement	LEP	Description
A	4	A1	SINGLE	0.900	40w LED Viva City Pro 4000K 300mA with FWT0 Optic Column Mounted 5m
B	1	B1	SINGLE	0.900	21w LED Viva City Pro 4000K 300mA with FWT0 Optic Column Mounted 5m
C	1	C1	SINGLE	0.900	40w LED Viva City Pro 4000K 300mA with AFT0 Optic Column Mounted 5m
D	1	D1	SINGLE	0.900	20w LED Viva City Pro 4000K 300mA with FWT0 Optic Column Mounted 5m
E	1	E1	SINGLE	0.900	7w LED 4000K Ray Short 110 recessed downlighter with 40° beam Mounted 5.5m
F	1	F1	SINGLE	0.900	7w LED 4000K Ray Short 110 recessed downlighter with 40° beam Mounted 5.5m
G	1	G1	SINGLE	0.900	7w LED 4000K Ray Short 110 recessed downlighter with 40° beam Mounted 5.5m
H	1	H1	SINGLE	0.900	7w LED 4000K Ray Short 110 recessed downlighter with 40° beam Mounted 5.5m
I	1	I1	SINGLE	0.900	7w LED 4000K Ray Short 110 recessed downlighter with 40° beam Mounted 5.5m

Calculation Summary

Label	Calculation	Units	Avg	Max	Min	Min/Avg	Max/Min
Additional area on the Left	14.68	25	6	0.147	0.28		
Additional area on the Right	12.30	21	6	0.49	0.29		
Bin and Cycle Store Pathway	13.50	17	10	0.80	0.81		
Bin Store	8.83	18	3	0.34	0.19		
Car Park	25.24	53	9	0.36	0.17		
Cycle Store 1	13.00	15	12	0.89	0.80		
Entrance Canopy	41.00	54	27	0.66	0.50		
Entrance Pathway	17.22	85	8	0.46	0.12		
Garden Pathway 1	18.47	36	2	0.30	0.05		
Garden Pathway 2	18.45	64	3	0.16	0.05		
Garden Pathway 3	17.47	47	2	0.18	0.05		
Garden Pathway 4	17.38	66	3	0.17	0.05		
Outdoor Classroom Pathway	8.11	26	2	0.25	0.09		
Rose Garden	14.20	37	8	0.96	0.25		
Top Street	46.00	57	25	0.34	0.14		
Upper Patio	7.54	29	2	0.27	0.07		
Observance Light H1 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H2 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H3 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H4 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H5 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H6 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H7 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H8 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H9 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H10 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H11 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H12 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H13 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H14 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H15 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H16 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H17 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H18 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H19 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H20 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H21 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H22 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H23 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H24 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Observance Light H25 - CS_Seg1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Extra Care Home Kenmore Drive Cleckheaton

Scale: 1:250 at A1 | Project Number: D39919J

Date: 9 January 2025 | Drawing No: D39919J/BJ

Lighting Designer: J Buck MSL

HEA | HEMSA | ILP

For our LED lighting designs a 0.9m has been used. If this differs from the maintenance period for this project then you must advise us accordingly.

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.

A1





Kingfisher Lighting

Part of the LUCECO group of companies

Datasheet



VIVA-CITY Pro

Specification Text

The VIVA-CITY Pro shall be manufactured from die-cast aluminium and powder coated in RAL 7016 Marine Grade finish. It shall have a power output ranging between 10 - 180W, with an efficacy of 66 - 150lm/W. The luminaire shall deliver 662 - 24,840 luminaire lumens. It shall have a fully programmable DALI driver. Available in 2700K or 4000K, the luminaire shall be IK08 and IP66 rated. It shall have photocell options available.

For DarkSky Specifications, the luminaire shall produce a CCT of 2700K.



Specification

Weight:	4.5 - 9.1 kg
Windage:	0.06 - 0.09 m ²
Material:	Die-cast Aluminium
Paint Finish:	RAL7016 Anthracite Grey
Embodied Carbon:	89 - 182 kg CO ₂ e

Product Description

Designed and Engineered in the UK, the VIVA-CITY Pro is a slimline luminaire featuring innovative optical systems to reduce light pollution within projects.



Key Features

- 10.0W - 180.0W
- 662 - 24,840 Luminaire Lumens
- Efficacy up to 150.0 lm/W
- 2700K, 4000K, CRI>70
- IP66, IK08
- Lifetime > 100,000hr, L80
- DarkSky Approved
- Photocell Option
- 3 Hour Integral Emergency

Optics

		Forward Throw Optic 70° Open areas perimeter lighting
		Street Optic 70° Roadways, pathways and narrow areas
		Spill Shield Street Optic 70° Roadways, pathways and narrow areas limiting obtrusive light
		Spill Shield Forward Throw Optic 70° Open areas perimeter lighting limiting obtrusive light

IP66	IK08	100,000 hrs LIFETIME	Colour Temperature	Control Compatible
PEC	5 YEARS WARRANTY	Marine Grade Finish	EM	

Circular Economy Score	
0 to 0.05	Very poor circular economy performance
0.5 to 1.5	Some circular economy functionality
1.5 to 2.5	Definite/substantial progress to circularity
2.5 to 4.0	Excellent circularity



Other Options Available

Contact for further details

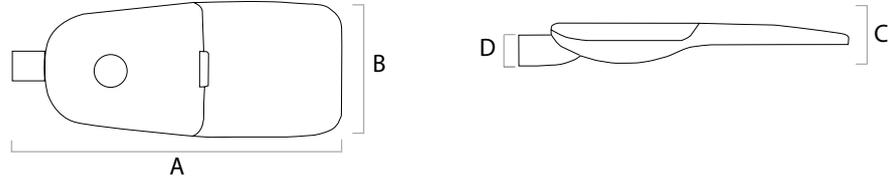
- Colour Temperatures: 2700K, 4000K
- Photocell
- Emergency
- Full Control Capabilities
- Dim to Warm

Body Type	A	B	C	D
Body Size 1 - 10, 20W	520	200	106	60/76
Body Size 3 - 40, 60, 80W	625	288	102	60/76
Body Size 4 - 120, 180W	775	320	102	60/76

All measurements in mm

Mounting Options

- Post Top 60/76mm, Side Entry 60/76mm



Code	Power	Luminaire Lumens	Drive Current mA	Inrush Current A pk	Optic	CCT(K)	IP	IK	Weight kg	Driver Included	Driver Type
VCYP-AY70-4.4-10D-02	10.0	1,177	400	9.2		4000	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-27.4-10D-02	10.0	1,117	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-4.8-20D-02	20.0	2,699	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-27.8-20D-02	20.0	2,561	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AY70-4.10-40D-02	40.0	5,880	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.10-40D-02	40.0	5,579	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.6-60D-02	60.0	8,844	610	32.0	Asymmetrical Street Optic 70°	4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.6-60D-02	60.0	8,392	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.8-80D-02	80.0	11,120	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-27.8-80D-02	80.0	10,551	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AY70-4.6-120D-02	120.0	17,828	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-27.6-120D-02	120.0	16,916	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-4.9-180D-02	180.0	24,840	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AY70-27.9-180D-02	180.0	23,569	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-4.4-10D-02	10.0	1,149	400	9.2		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-27.4-10D-02	10.0	1,090	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-4.8-20D-02	20.0	2,655	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-27.8-20D-02	20.0	2,519	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FW70-4.10-40D-02	40.0	5,532	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.10-40D-02	40.0	5,249	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.6-60D-02	60.0	8,760	610	32.0	Asymmetrical Forward Throw Optic 70°	4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.6-60D-02	60.0	8,312	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.8-80D-02	80.0	11,040	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-27.8-80D-02	80.0	10,475	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FW70-4.6-120D-02	120.0	17,760	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-27.6-120D-02	120.0	16,851	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-4.9-180D-02	180.0	24,660	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FW70-27.9-180D-02	180.0	23,398	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-4.4-10DSHIELD-02	10.0	698	400	9.2		4000	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-27.4-10DSHIELD-02	10.0	662	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-4.8-20DSHIELD-02	20.0	1,601	840	14.9	Asymmetrical Spill Shield Street Optic 70°	4000	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-27.8-20DSHIELD-02	20.0	1,519	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-AYB70-4.10-40DSHIELD-02	40.0	3,487	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-AYB70-27.10-40DSHIELD-02	40.0	3,308	1,050	24.9		2700	IP66	IK08	6.0	Yes	DALI

Code	Power	Luminaire Lumens	Drive Current mA	Inrush Current A pk	Optic	CCT(K)	IP	IK	Weight kg	Driver Included	Driver Type
VCYP-AYB70-27.8-80DSHIELD-02	80.0	6,257	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-AYB70-4.6-120DSHIELD-02	120.0	10,572	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-27.6-120DSHIELD-02	120.0	10,031	620	65.0	Asymmetrical Spill Shield Street Optic 70°	2700	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-4.9-180DSHIELD-02	180.0	14,730	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-AYB70-27.9-180DSHIELD-02	180.0	13,977	900	80.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-4.4-10DSHIELD-02	10.0	892	400	9.2		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-27.4-10DSHIELD-02	10.0	846	400	9.2		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-4.8-20DSHIELD-02	20.0	2,060	840	14.9		4000	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-27.8-20DSHIELD-02	20.0	1,955	840	14.9		2700	IP66	IK08	4.8	Yes	DALI
VCYP-FWB70-4.10-40DSHIELD-02	40.0	4,293	1,050	24.9		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.10-40DSHIELD-02	40.0	4,073	1,050	24.9	Asymmetrical Spill Shield Forward Throw Optic 70°	2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.6-60DSHIELD-02	60.0	6,798	610	32.0		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.6-60DSHIELD-02	60.0	6,450	610	32.0		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.8-80DSHIELD-02	80.0	8,567	800	41.6		4000	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-27.8-80DSHIELD-02	80.0	8,129	800	41.6		2700	IP66	IK08	6.0	Yes	DALI
VCYP-FWB70-4.6-120DSHIELD-02	120.0	13,782	620	65.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-27.6-120DSHIELD-02	120.0	13,077	620	65.0		2700	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-4.9-180DSHIELD-02	180.0	19,136	900	80.0		4000	IP66	IK08	9.0	Yes	DALI
VCYP-FWB70-27.9-180DSHIELD-02	180.0	18,157	900	80.0		2700	IP66	IK08	9.0	Yes	DALI

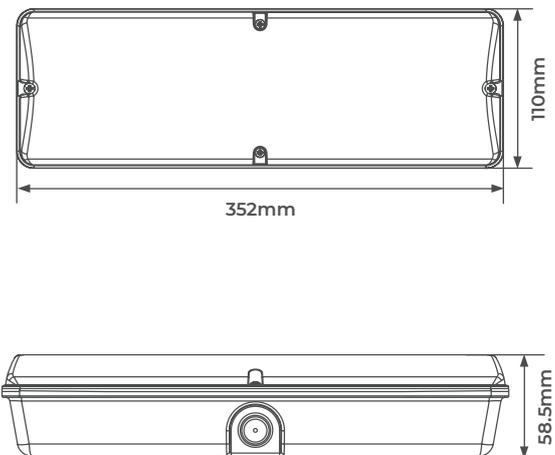
TEMPUS EMERGENCY BULKHEAD

Product Features

- Surface mount maintained emergency bulkhead for internal or external use
- Two screw diffuser design with rear and side cable entry points
- Can be wired for non-maintained use
- Supplied with self-adhesive legend kit and weatherproof cable gland



Product Drawing



CAT NO.	TYPE	LUMINAIRE LUMENS	WATTAGE
LEMBKM3	Maintained	140	3W
LEMBKEST	Self-Test	140	3W
LEMBKEDA	DALI	140	3W

	HEIGHT	AXIAL DISTANCE FROM WALL	AXIAL SPACING	TRANSVERSE SPACING	TRANSVERSE SPACING FROM WALL
OPEN AREA	2.5	2	8	8	2
- 0.5 LUX	3	2	9	9	2
ESCAPE ROUTE	4	2	10	10	2
- 1 LUX	2.5	-	-	8	2
(Based on 2m width)	3	-	-	8.2	2
	4	-	-	8.4	2

CAT NO.	WEIGHT (kg)	CRI	FREQUENCY (Hz)	IK RATING	BATTERY TYPE	BATTERY CAPACITY	TEMP RANGE (°C)	AMBIENT TEMP RATED LIFE (°C)
LEMBKM3	0.5	>80	50-60	IK08	Ni-Cd 3.6V	800mAh	0 – 45°C	25°C

STANDARD	DESCRIPTION
60598-1	Luminaires – General requirements
60598-2-22	Luminaires – Emergency
61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – for harmonic current emissions
61000-3-3	Lamp control gear – Part 1: General and safety requirements
61547	Equipment for general lighting purposes – EMC immunity requirements
55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment





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Datasheet



QUARTO 2.0

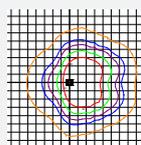
Specification Text

The QUARTO 2.0 shall be manufactured from high pressure die-cast aluminium and powder coated with a RAL 7016 Anthracite Grey marine grade finish. It shall have a power output ranging between 2.2 - 14.2W, with an efficacy of up to 121lm/W. The luminaire shall deliver 206 - 1,720 luminaire lumens. The QUARTO 2.0 has a range of different optics to suit narrow, medium and wide paths. Available in 2700K or 4000K, the luminaire shall be IK10 and IP66 rated with 3 hour integral emergency back-up and self-test options available.

Specification

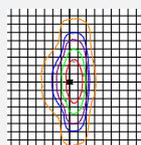
Weight: 4 - 4.2 kg
Material: Die-cast Aluminium
Paint Finish: RAL7016 Anthracite Grey
Embodied Carbon: 77 kg CO₂e

Optics



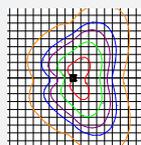
Flood Optic

Designed with excellent wide distribution for areas needing greater illumination such as car parks, children's areas and many more areas



Path Optic

Perfect for a variety of pedestrian areas in close proximity to buildings. E.g retail parks, façade lighting and offices.



Street Optic

Ideal for illuminating areas such as building perimeters and access areas. It would be best placed in areas such with high security needs.

Product Description

The QUARTO is a stylish, modern bulkhead available with emergency and photocell options. This luminaire is perfect for building and perimeter lighting.



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Key Features

- 2.2W - 14.2W
- 206 - 1,720 Luminaire Lumens
- Efficacy up to 121.0 lm/W
- 2700K, 4000K, CRI>70
- IP66, IK10
- Lifetime > 100,000hr L80
- 3 Hour Integral Emergency
- Colour Temperature Opportunities
- Motion Sensor Option

Available with integral 3 hour emergency using a 3.0W pack. Output range from 315 - 363 lm dependant on optic, CCT & accessories.

IP66	IK10	100,000 hrs LIFETIME	
PEC	EM	2700K	4000K
5 YEARS WARRANTY			

Circular Economy Score	
0 to 0.05	Very poor circular economy performance
0.5 to 1.5	Some circular economy functionality
1.5 to 2.5	Definite/substantial progress to circularity
2.5 to 4.0	Excellent circularity

Other Options Available

Contact for further details

- 3 Hour Integral Emergency
- Colour Temperature Opportunities
- Monitor Sensor Option

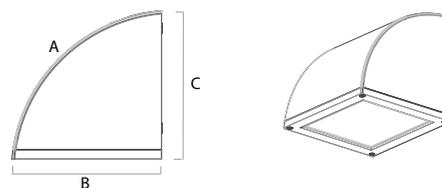
Mounting Options

- Wall Mount

Dimensions

Body Type	A	B	C	D
Standard	231	230	230	200x80

All measurements in mm



Code	Power (W)	Luminaire Lumens (lm)	Drive Current (mA)	Inrush Current (A pk)	Optic	CCT (K)	IP	IK	Weight (kg)	Driver Included	Driver Type
QUAST02D	2.2	240	82	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAST02D27K	2.2	206	82	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAST04D	3.5	382	131	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAST04D27K	3.5	328	131	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAST08F	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST08FPEC	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST08FEM	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST08FEMPEC	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST08DALI	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST08-ST-DALIEM	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST08-ST-DALIEMMW	7.5	790	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST15F	14.2	1620	500	14.0	Street Optic (ST)	4000	IP66	IK10	4.2	Yes	Fixed
QUAST15FPEC	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST15FEM	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST15FEMPEC	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAST15DALI	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST15-ST-DALIEM	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST15-ST-DALIEMMW	14.2	1620	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAST08F27K	7.5	720	250	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAST15F27K	14.2	1470	500	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAST08D27K	7.0	1466	250	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAST15D27K	13.3	1410	500	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAST08D	7.0	830	250	5.0		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAST15D	13.3	1575	500	5.0		4000	IP66	IK10	4.0	Yes	Basic DALI

Code	Power (W)	Luminaire Lumens (lm)	Drive Current (mA)	Inrush Current (A pk)	Optic	CCT (K)	IP	IK	Weight (kg)	Driver Included	Driver Type
QUAFL02D	2.2	255	82	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAFL02D27K	2.2	219	82	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAFL04D	3.5	405	131	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAFL04D27K	3.5	348	131	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAFL08F	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL08FPEC	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL08FEM	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL08FEMPEC	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL08DALI	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAFL08-ST-DALIEM	7.5	840	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAFL15F	14.2	1720	500	14.0	Flood Optic (FL)	4000	IP66	IK10	4.2	Yes	Fixed
QUAFL15FPEC	14.2	1720	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL15FEM	14.2	1720	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL15FEMPEC	14.2	1720	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAFL15DALI	14.2	1720	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAFL15-ST-DALIEM	14.2	1720	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAFL08F27K	7.5	765	250	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAFL15F27K	14.2	1560	500	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAFL08D27K	7.0	814	250	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAFL15D27K	13.3	1526	500	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAFL08D	7.0	910	250	5.0		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAFL15D	13.3	1705	500	5.0		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAOC02D	2.2	268	82	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAOC02D27K	2.2	211	82	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAOC04D	3.5	427	131	9.2		4000	IP66	IK10	4.0	Yes	Basic DALI
QUAOC04D27K	3.5	336	131	9.2		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAOC08F	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC08FPEC	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC08FEM	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC08FEMPEC	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC08DALI	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC08-ST-DALIEM	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC08-ST-DALIEMMW	7.5	820	250	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC15F	14.2	1675	500	14.0	Path Optic (OC)	4000	IP66	IK10	4.2	Yes	Fixed
QUAOC15FPEC	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC15FEM	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC15FEMPEC	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	Fixed
QUAOC15DALI	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC15-ST-DALIEM	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC15-ST-DALIEMMW	14.2	1675	500	14.0		4000	IP66	IK10	4.2	Yes	DALI
QUAOC08F27K	7.5	740	250	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAOC15F27K	14.2	1510	500	14.0		2700	IP66	IK10	4.2	Yes	Fixed
QUAOC08D27K	7.0	765	250	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAOC15D27K	13.3	1466	500	5.0		2700	IP66	IK10	4.0	Yes	Basic DALI
QUAOC15D	13.3	1625	500	5.0		4000	IP66	IK10	4.0	Yes	Basic DALI



Kingfisher Lighting

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Datasheet

RAY Series



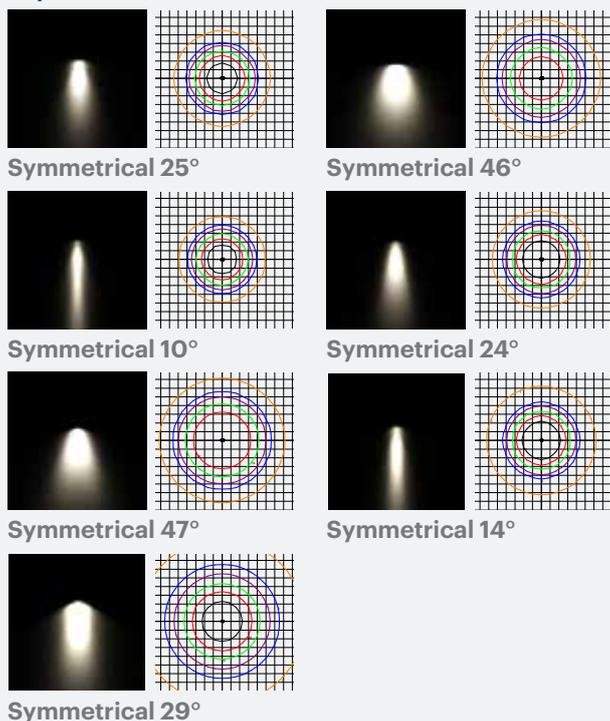
Specification Text

The RAY range shall be manufactured from die-cast aluminium with stainless steel trim. It shall have power outputs ranging from 4 - 20W, with an efficacy of up to 144 lm/W. It shall deliver 375 - 2,250 luminaire lumens. The RAY is available with a range of different beam angles and sizes from 25 - 180mm to suit a wide variety of projects. Available in 3000K, 4000K or RGBW, the luminaire shall be IK08 and IP66 rated.

Specification

Weight: 0.8 kg - 3.8 kg
Material: Extruded Aluminium
Paint Finish: Stainless Steel

Optics



Product Description

The RAY series is a range stainless steel down lighters available in an array of sizes and beam angles. Perfect for canopy lighting and wall washes.

Key Features

- 4.0W - 20.0W
- 375 - 2,250 Luminaire Lumens
- Efficacy up to 144 lm/W
- 3000K, 4000K, CRI>70
- IP67, IP68, IK07, IK08, IK09
- Lifetime 60,000, L80
- Colour Temperature Options
- RGBW Opportunities

IP67	IP68	IK07	IK08	IK09	Colour Temperature	Marine Grade Finish
5 YEARS WARRANTY		60,000 hrs LIFETIME				

Other Options Available

Contact for further details

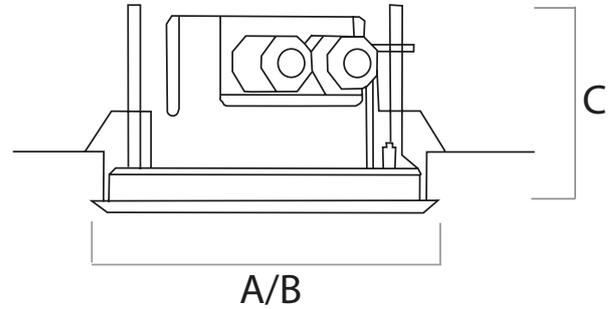
- Colour Temperature Opportunities

Mounting Options

- Recessed Mount

Body Type	A	B	C
RAY 55	64	64	75
RAY 110 Short	120	120	68
RAY 180 Short	190	190	101

All measurements in mm



Code	Power	Luminaire Lumens	Drive Current	Optic	CCT(K)	IP	IK	Weight kg	Driver Included	Driver Type
RAY55-SY25-840-4-30	4.0	450	700	Symmetrical 25°	4000	IP66	IK08	0.75	No	Fixed
RAY55-SY46-840-4-30	4.0	375	350	Symmetrical 46°	4000	IP66	IK09	0.75	No	Fixed
RAY110S-SY10-840-4-30	4.0	575	350	Symmetrical 10°	4000	IP66	IK08	0.85	No	Fixed
RAY110S-SY24-840-4-30	4.0	575	350	Symmetrical 24°	4000	IP66	IK08	0.85	No	Fixed
RAY110S-SY47-840-4-30	4.0	525	350	Symmetrical 47°	4000	IP66	IK08	0.85	No	Fixed
RAY180S-SY14-840-20-30	20.0	2,250	-	Symmetrical 14°	4000	IP66	IK08	3.81	Yes	Fixed
RAY180S-SY29-840-20-30	20.0	1,950	-	Symmetrical 29°	4000	IP66	IK08	3.81	Yes	Fixed



Kingfisher Lighting

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Datasheet

DECO 2.0



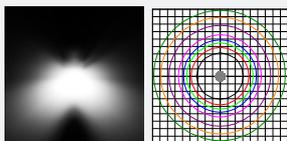
Specification Text

The DECO 2.0 shall be manufactured from die-cast aluminium and powder coated in RAL 7016 Marine Grade Finish. It shall have a power output ranging between 7.5/15.0W, with an efficacy of 124.0lm/W. The luminaire shall deliver 730 - 1,860 luminaire lumens. The DECO 2.0 has radial optics to suit pedestrian, pathway and retail applications. Available in 2700K, 4000K, the luminaire shall be IK08 and IP65 rated. It shall have photocell and emergency options available.

Specification

Weight: 5.4 - 5.68 kg
Material: Die-cast Aluminium
Paint Finish: RAL7016 Anthracite Grey
Embodied Carbon: 97 kg CO²e

Optics



Radial
A radial distribution allowing a soft even distribution for areas requiring low level lighting

Product Description

DECO 2.0 is a robust bollard with a classic aesthetic ideal for most schemes. It features an on-site adjustable output and has many accessories available.



Key Features

- 7.5W - 15.0W
- 730 - 1,860 Luminaire Lumens
- Efficacy up to 124.0 lm/W
- 2700K, 4000K, CRI>80
- IP65 & IK08
- Lifetime 50,000, L70
- Emergency Compatible
- On-Site Adjustable Output
- Impact Kit

Available with integral 3 hour emergency using a 3.0W pack. Output range from 291 - 372 lm dependant on optic, CCT & accessories.

IP65	IK08	Colour Temperature	50,000 hrs LIFETIME	5 YEARS WARRANTY	
PEC	EM		2700K	4000K	



Circular Economy Score	
0 to 0.05	Very poor circular economy performance
0.5 to 1.5	Some circular economy functionality
1.5 to 2.5	Definite/substantial progress to circularity
2.5 to 4.0	Excellent circularity

Other Options Available

Contact for further details

- Bike Rack Option
- Impact Kit
- Spill Shield

Mounting Options

- Flange Mount

Dimensions

Body Type	A	B	C
Standard	180	180	1040

All measurements in mm



Code	Power (W)	Luminaire Lumens (lm)	Drive Current (mA)	Inrush Current (A pk)	Optic	CCT (K)	IP	IK	Weight (kg)	Driver Included	Driver Type
DEC715	7.5/15	930/1860	250/500	3.0	Radial	4000	IP65	IK08	5.4	Yes	Fixed
DEC715PEC	7.5/15	930/1860	250/500	3.0		4000	IP65	IK08	5.5	Yes	Fixed
DEC715EM	7.5/15	930/1860	250/500	3.0		4000	IP65	IK08	5.6	Yes	Fixed
DEC715EMPEC	7.5/15	930/1860	250/500	3.0		4000	IP65	IK08	5.7	Yes	Fixed
DEC71527K	7.5/15	730/1400	250/500	3.0		2700	IP65	IK08	5.5	Yes	Fixed
DEC71527KPEC	7.5/15	730/1400	250/500	3.0		2700	IP65	IK08	5.5	Yes	Fixed
DEC71527KEM	7.5/15	730/1400	250/500	3.0		2700	IP65	IK08	5.6	Yes	Fixed
DEC71527KEMPEC	7.5/15	730/1400	250/500	3.0		2700	IP65	IK08	5.7	Yes	Fixed

Datasheet

Guardian Pro



Product Description

This asymmetric flood light offers a powerful fixed output in a small package. It also comes with an adjustable bracket in order to get the perfect illumination for your scheme.

Specification Text

The luminaire shall be manufactured from high-pressure die-cast aluminium. It shall have an LED efficacy of up to 130.0 lm/W and will be capable of producing up to 26,000 luminaire lumens at 4000K with a CRI >70. It shall have an asymmetric optic and is rated at IP65 and IK07.

Specification

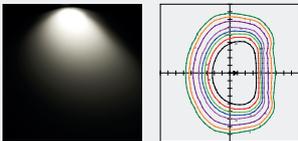
Weight: 4.7 - 9.3kg
Material: Die-cast Aluminium
Paint finish: RAL7016 Anthracite Grey Finish

Key Features

- 50.0 - 200.0W
- 6,800 - 26,000 Luminaire Lumens
- Efficacy up to 130.0 lm/W
- 4000K, CRI >70
- Lifetime > 70,000hr, L80



Optics



Asymmetrical Flood

Code	Power	Luminaire Lumens	Optic	CCT(K)	IP	IK	Weight kg	Paint Finish	Driver Included
LFP50B140F	50.0	6,800	Asymmetrical Flood	4000	IP65	IK07	4.7	RAL7016 Anthracite Grey	Driver Inc
LFP100B140F	100.0	12,500		4000	IP65	IK07	7.4	RAL7016 Anthracite Grey	Driver Inc
LFP150B140F	150.0	19,200		4000	IP65	IK07	7.4	RAL7016 Anthracite Grey	Driver Inc
LFP200B140F	200.0	26,000		4000	IP65	IK07	9.3	RAL7016 Anthracite Grey	Driver Inc



Dimensions

