

MADE IN BRITAIN SALES CONTACT: Dan Jakeman PROJECT: P173-1727 - Co-op Darnton Maghull ITEM REF: A

> datasheet - external - dpl DPL. 1.LA064.FWBL.C9.W048



Product image may not represent the final configuration stated above.



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DPL.1.LA064.FWBL.C9.W048

Holophane Denver iD: Pole consists of a 2-part body and a removable LED module manufactured from LM6 marine grade die-cast aluminum with integrated thermal management properties. The optical arrangement consists of LEDs with individual PMMA optical lenses surrounded by a patented white Transition Zone to reduce perceived glare. This is sealed behind high-transparency 'hydrophilic' glass. Both luminaire body and LED module are sealed to IP65 and rated IK10. Drivers and LED are contained within separate housings to promote low operating temperatures and long system life. Column mounting of the luminaire is facilitated by a bespoke post-top bracket (ordered separately). Cable entry and termination to the luminaire is a via an IP65 cable gland. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA). This specific SKU includes:



0.042M

- Series 1
- LED light engine producing c.6,000 Im with a nominal 4000K colour temperature
- Forward throw with internal backlight shield
- Metallic Silver (RAL9006)
- 48W

DPLB.6.1A.LMZ.GV

Holophane tubular base compartment column for use with Denver iD Pole luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40). Bracket galvanised#DO NOT REMOVE THIS RECORD#

Drive Current from Driver:	925mA
Power:	48W
Fitting Current:	0.22A
Power Factor:	0.98
Fitting Inrush:	43A - 0.26ms
Number of Drivers:	1
1x Driver 1 Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:	10
Max Fittings per 16A Type B MCB:	10
Total Number of LEDs:	16
Minimum Dim Level:	8 %
THDi:	11.6
Optical Risk Group:	1

PERFORMANCE



6.1Kg₂

KG



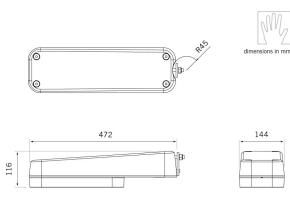
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DIMENSIONS

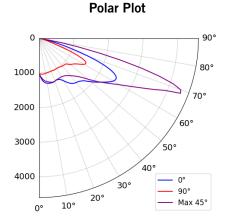
CIBSE TM66 - CEAM RATING



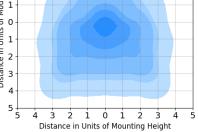
		2.5*	
0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Some circular economy functionality	Definite/ substantial progress to circularity	Excellent circularity

*Preliminary Rating

PHOTOMETRY 🛃 IES FILE



Olstance in Units of Mounting Height



Isoilluminance Plot

Lumens:	5,725				
CCT:	4000K				
CRI:	70				
IES File:	P: DPL.1.LA064.FWBL.W048				
G-Class:	G*3 Imax @ ≥ 70°: 761 Imax @ ≥ 80°: 85 Imax @ ≥ 90°: 0				

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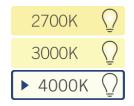
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LLMF GRAPH

100% Tq: 25C 95% 90% 85% % Lumen Output gradual L, B abrupt L₀ C₂ 80% 75% 70% 65% 60% LED Life (LxxB50) 55% Abrupt failure of LED luminaire Light degradation of LED luminaire LED lumin 6x LM-80 Data 50% 50 80 100 10 20 8 x1000 Hours

COLOUR TEMPERATURES



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOURS

Selected Colour			Standard Colours Available				
C9	Metallic S	ilver (RAL9006)	C1	Smooth White (RAL9016)			
			C4	Smooth Graphite (RAL7011)			
Custom Colour A	vailable		6	Smooth Grey (RAL7035)			
	AL****	Customer specified colour	C7	Textured Black (RAL9005)			
*Choosing a custom	colour ma	ay increase the cost and lead time.	69	Metallic Silver (RAL9006)			

Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

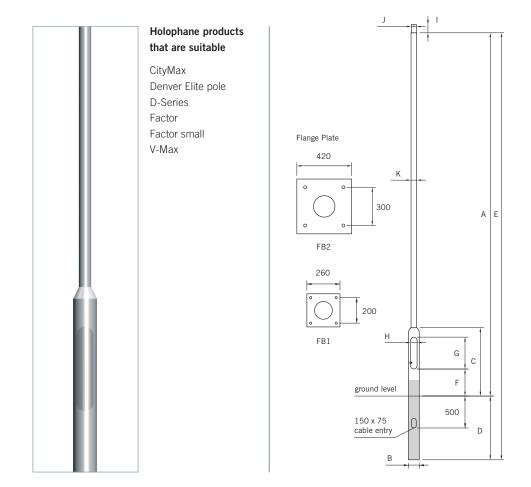
The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.



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> DATASHEET DPLB.6.1A.LMZ.GV



	Nominal Height	Base Diameter*	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length*	Spigot Diameter*	Shaft Diameter*	Weight kg*	Bending Moment (ULS) Nm
description	Α	В	С	D	Е	F	G	Н	I	J	К		
2.5m standard duty	2500	140	1075	800	3300	400	500	100	-	-	76	27	2100
3m standard duty	3000	140	1075	800	3800	400	500	100	-	-	76	30	4666
3.5m standard duty	3500	140	1075	800	4300	400	500	100	-	-	76	32	2100
4m standard duty	4000	140	1075	800	4800	400	500	100	-	-	76	34	6484
4.5m standard duty	4500	140	1075	800	5300	400	500	100	-	-	76	37	5108
5m standard duty	5000	140	1075	800	5800	400	500	100	-	-	76	39	6149
5.5m standard duty	5500	140	1075	1000	6500	400	500	100	-	-	76	44	6003
6m standard duty	6000	140	1075	1000	7000	400	500	100	-	-	76	46	5999
6m heavy duty	5700	168	1200	1000	6700	400	600	115	130	76	89	71	10404
8m standard duty	7700	168	1200	1200	8900	400	600	115	130	76	89	89	10072
8m heavy duty	7700	168	1300	1200	9000	500	600	115	250	101	114	107	15699
8m extra heavy duty	7700	194	1300	1200	9000	500	600	115	250	127	140	136	18973
10m standard duty	9700	168	1300	1500	11200	500	600	115	250	101	114	150	18067
10m heavy duty	9700	194	1300	1500	11200	500	600	115	250	127	140	168	23193
10m extra heavy duty	9700	194	1300	1500	11200	500	600	115	250	152	168	220	28317
12m standard duty	11700	194	1300	1700	13400	500	600	115	250	127	140	213	26251
12m heavy duty	11700	194	1300	1700	13400	500	600	115	250	127	168	260	40390

* Exclusion TBC 2.5-6m std Poles

Bolts M18 x 400

Flange Plate and Anchor Bolt information will be confirmed at time of order due to the necessity in ensuring

https://www.helophelange Plate FB2 D f lin Y

Flange Plate FB1

 Bolts
 M18 x 400
 the correct plate and Anchor Bolts are supplied.
 Holophane Europe Limited

 T Hots
 Column type to be confirmed at time of order as this is based
 Holophane Europe Limited
 Holophane Europe Limited

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 Column type to be confirmed at time of order as this is based
 Holophane Europe Limited
 Holophane Europe Limited

 F +44 (0)1908 367
 Gampaphical location info@holophane.co.uk
 Buckinghamshire MK1 1JG

Buckinghamshire MK1 1JG United Kingdom

stepped steel - CityMax Large only

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	Α	В	С	D	Е	F	G	н	I	J	K		
6m	6000	140	1075	1000	7000	400	500	115	-	-	-	46	5999
8m	7700	168	1300	1200	9000	500	600	115	100	76	114	107	15699
10m	9700	168	1300	1500	11200	500	600	115	100	76	114	150	18067
12m	11700	194	1300	1700	13400	500	600	115	100	76	140	168	26251
15m	14700	194	1200	2000	17000	400	600	115	100	76	168	306	40300

twin head

	Nominal Height	Base Diameter	Base Height	Planting Depth	Overall Length	Door to Ground	Door Opening Length	Door Opening Width	Spigot Length	Spigot Diameter	Shaft Diameter	Weight kg	Bending Moment (ULS) Nm
description	Α	В	С	D	Е	F	G	н	1	J	к		
8m	7400	194	1200	1200	8800	400	600	115	200	127	139.7	125	22610
10m	9400	194	1200	1500	11100	400	600	115	200	152.4	168.3	208	39131
12m	11400	194	2500	1700	13300	1000	600	115	200	152.4	168.3	295	41585

Note: For Terrain Category 2 locations LMZ, HVZ & HEZ



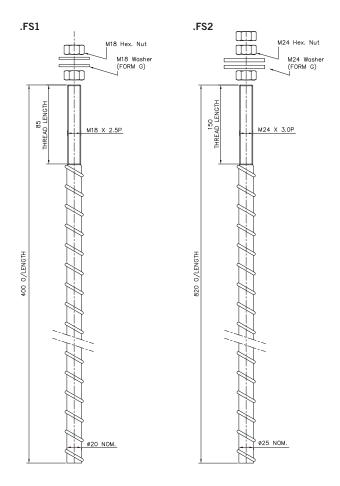
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For columns supplied with optional flange base Holophane offers two types of foundation bolts.

Note: The material used for the bolts is Fe E500 grade steel, with yield strength 500 N/mm2 and minimum UTS 550 N/mm2.

HEL.FS1M18 Bolts (FS1) x 400 mm longHEL.FS2M24 Bolts (FS2) x 820 mm long



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Fintl +44 (0)1908 363 789 Fintl +44 (0)1908 363 789 E info@holophane.co.uk Holophane Europe Limited Bond Avenue, Milton Keynes,



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> datasheet - external - dpl DPL.1.LA064.AY.C9.W048



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DPL.1.LA064.AY.C9.W048

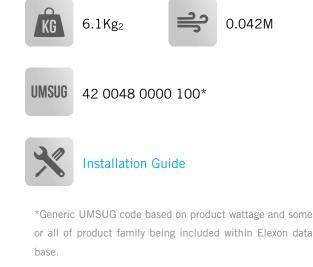
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- Series 1
- LED light engine producing c.6,000 Im with a nominal 4000K colour temperature
- Asymmetric light distribution
- Metallic Silver (RAL9006)
- 48W

DPLB.6.1A.LMZ.GV

Holophane tubular base compartment column for use with Denver iD Pole luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40). Bracket galvanised#DO NOT REMOVE THIS RECORD#

Drive Current from Driver:925mAPower:48WComposition0.22AOnewer Factor:0.98Onewer Factor:0.98Composition43A - 0.26msNumber of Drivers:1Max Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Max Fittings per 16A Type B MCB:16Max Fittings per 16A Type B MCB:16Max Drivers per 16A Type B MCB:11.6Minimum Dim Level:8 %Max Drivers per I6A Risk Group:1		
Fitting Current:0.22APower Factor:0.98Fitting Inrush:43A - 0.26msNumber of Drivers:11x Driver 1 Inrush:43A - 0.26msMax Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Drive Current from Driver:	925mA
Power Factor:0.98Fitting Inrush:43A - 0.26msNumber of Drivers:11x Driver 1 Inrush:43A - 0.26msMax Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Power:	48W
Fitting Inrush:43A - 0.26msNumber of Drivers:11x Driver 1 Inrush:43A - 0.26msMax Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Fitting Current:	0.22A
Number of Drivers:11x Driver 1 Inrush:43A - 0.26msMax Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Power Factor:	0.98
1x Driver 1 Inrush:43A - 0.26msMax Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Fitting Inrush:	43A - 0.26ms
Max Drivers per 16A Type B MCB:10Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Number of Drivers:	1
Max Fittings per 16A Type B MCB:10Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	1x Driver 1 Inrush:	43A - 0.26ms
Total Number of LEDs:16Minimum Dim Level:8 %THDi:11.6	Max Drivers per 16A Type B MCB:	10
Minimum Dim Level: 8 % THDi: 11.6	Max Fittings per 16A Type B MCB:	10
THDi: 11.6	Total Number of LEDs:	16
	Minimum Dim Level:	8 %
Optical Risk Group: 1	THDi:	11.6
	Optical Risk Group:	1





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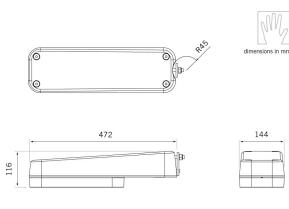
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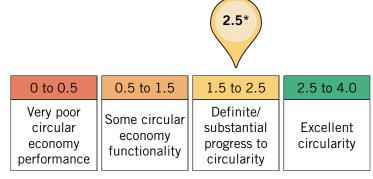
PERFORMANCE



DIMENSIONS

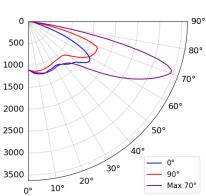
CIBSE TM66 - CEAM RATING



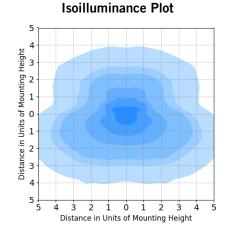


*Preliminary Rating

PHOTOMETRY 🛃 IES FILE



Polar Plot



Lumens:	6,511
CCT:	4000K
CRI:	70
IES File:	DPL.1.LA064.AY.W048
G-Class:	G*2 Imax @ ≥ 70°: 530 Imax @ ≥ 80°: 134 Imax @ ≥ 90°: 0

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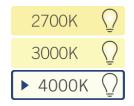
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LLMF GRAPH

100% Tq: 25C 95% 90% 85% % Lumen Output gradual L, B abrupt L₀ C₂ 80% 75% 70% 65% 60% LED Life (LxxB50) 55% Abrupt failure of LED luminaire Light degradation of LED luminaire LED lumin 6x LM-80 Data 50% 50 80 100 10 20 8 x1000 Hours

COLOUR TEMPERATURES



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOURS

Selected Colour			Standard Colours Available				
C9	Metallic S	ilver (RAL9006)	C1	Smooth White (RAL9016)			
			C4	Smooth Graphite (RAL7011)			
Custom Colour A	vailable		6	Smooth Grey (RAL7035)			
	AL****	Customer specified colour	C7	Textured Black (RAL9005)			
*Choosing a custom	colour ma	ay increase the cost and lead time.	69	Metallic Silver (RAL9006)			

Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.



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DPL.1.LA054.SY.C9.W038

Holophane Denver iD: Pole consists of a 2-part body and a removable LED module manufactured from LM6 marine grade die-cast aluminum with integrated thermal management properties. The optical arrangement consists of LEDs with individual PMMA optical lenses surrounded by a patented white Transition Zone to reduce perceived glare. This is sealed behind high-transparency 'hydrophilic' glass. Both luminaire body and LED module are sealed to IP65 and rated IK10. Drivers and LED are contained within separate housings to promote low operating temperatures and long system life. Column mounting of the luminaire is facilitated by a bespoke post-top bracket (ordered separately). Cable entry and termination to the luminaire is a via an IP65 cable gland. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA). This specific SKU includes:

- Series 1
- LED light engine producing c.5,000 Im with a nominal 4000°K colour temperature
- A symmetrical light distribution
- Metallic Silver (RAL9006)
- 38W

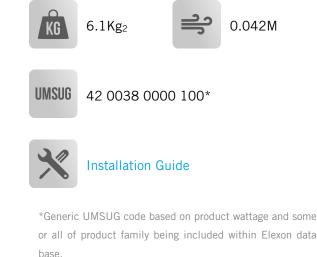
DPLB.6.1A.LMZ.GV

Holophane tubular base compartment column for use with Denver iD Pole luminaires. 6 metre, Single head, For light & medium area wind zones (compliant to EN40). Bracket galvanised#DO NOT REMOVE THIS RECORD#

740mA
38W
0.17A
0.98
22A - 0.29ms
1
22A - 0.29ms
20
20
16
9 %
7.9
1

PERFORMANCE





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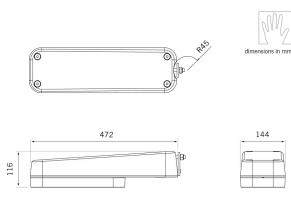


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DIMENSIONS

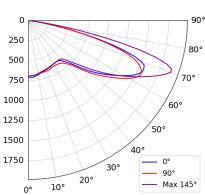
CIBSE TM66 - CEAM RATING



			2.5*	
	0 to 0.5	0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
F	Very poor circular economy performance	Some circular economy functionality	Definite/ substantial progress to circularity	Excellent circularity

*Preliminary Rating

PHOTOMETRY LIES FILE



Polar Plot

5 4 Distance in Units of Mounting Height 4 5 + 5 ź ò i 4 Ŕ i ż Ś. 4 5 Distance in Units of Mounting Height

Isoilluminance Plot

Lumens:	5,428
CCT:	4000K
CRI:	70
IES File:	DPL.1.LA054.SY.W038
G-Class:	G*2 Imax @ ≥ 70°: 348 Imax @ ≥ 80°: 118 Imax @ ≥ 90°: 0

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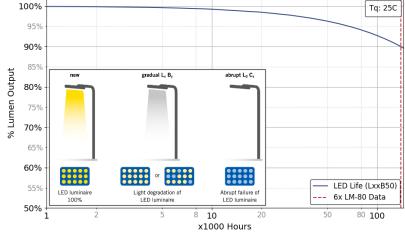
LLMF GRAPH

COLOUR TEMPERATURES

2700K

3000K

4000K



For reference purposes, the graph extrapolates beyond the recommend 6x LM-80 data in TM-21, which our calculations are based on.

COLOURS

Selected Colour		Standard Colours Available					
C9 Metallic S	ilver (RAL9006)	C1	Smooth White (RAL9016)				
		C4	Smooth Graphite (RAL7011)				
Custom Colour Available		C6	Smooth Grey (RAL7035)				
RAL****	Customer specified colour y increase the cost and lead time.	C7	Textured Black (RAL9005)				
Choosing a custom colour ma		69	Metallic Silver (RAL9006)				

Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

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> datasheet - external - dwl DWL.1.LA014.AY.C9.W007



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PRODUCT SPECIFICATION WEBSITE

Holophane Denver iD: Wall consists of a 2-part body and a removable LED module manufactured from LM6 marine grade die-cast aluminum with integrated thermal management properties. The LED module optical arrangement consists of LEDs with individual PMMA optical lenses surrounded by a patented white Transition Zone to reduce perceived glare. This is sealed behind high-transparency 'hydrophilic' glass. Both luminaire body and LED module are sealed to IP65 and rated IK10. Drivers and LED are mounted separately from each other to promote low operating temperatures and long system life. Mounting of the luminaire is facilitated by mounting the back casting of luminaire to suitable surface. Cable entry and termination to the luminaire is a via an 2 x IP65 M20 cable gland. International Dark-Sky Association Approved (colour temperatures 3000K or warmer are approved under the IDA). This specific SKU includes:

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- Series 1
- LED light engine producing c.1,000 Im with a nominal 4000°K colour temperature
- Asymmetric light distribution
- Metallic Silver (RAL9006)
- 7W

PERFORMANCE

Drive Current from Driver:	200mA
Power:	6.5W
Fitting Current:	0.03A
Power Factor:	0.95
Fitting Inrush:	15A - 0.295ms
Number of Drivers:	1
1x Driver 1 Inrush:	15A - 0.295ms
Max Drivers per 16A Type B MCB:	29
Max Fittings per 16A Type B MCB:	29
Total Number of LEDs:	8
Minimum Dim Level:	26 %
THDi:	12.4
SVM:	0.07
Pst LM:	0.05
Optical Risk Group:	1







https://www.holophane.co.uk/

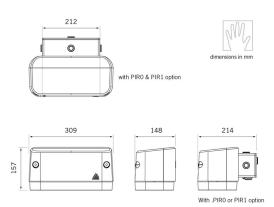


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DIMENSIONS

CIBSE TM66 - CEAM RATING

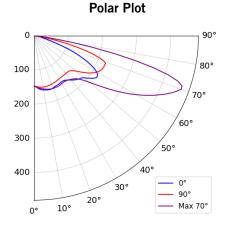


		V
0 to 0.5 0.5 to 1.5	1.5 to 2.5	2.5 to 4.0
Very poor circular economy performance	Definite/ substantial progress to circularity	Excellent circularity

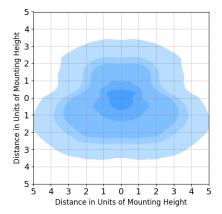
*Preliminary Rating

2.6

PHOTOMETRY 🛃 IES FILE



Isoilluminance Plot



Lumens:	864
CCT:	4000K
CRI:	70
IES File:	DWL.1.LA014.AY.W007
G-Class:	G*2 Imax @ ≥ 70°: 530 Imax @ ≥ 80°: 134 Imax @ ≥ 90°: 0

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LLMF GRAPH

100% Tq: 25C 95% 90% 85% % Lumen Output gradual L, B abrupt L₀ C₂ 80% 75% 70% 65% 60% LED Life (LxxB50) 55% Abrupt failure of LED luminaire LED lumina Light degradation of LED luminaire 6x LM-80 Data 50% 8 10 x1000 Hours 50 80 100

2700K 3000K

4000K

For reference purposes,	the graph	extrapolates	beyond	the	recommend	6x	LM-80	data	in	TM-21,	which	our	calculati	ions
are based on.														

COLOURS

Selected Colou	ır		Standard Colours Available					
	C9 Metallic Silver (RAL9006)		C1	Smooth White (RAL9016)				
			C4	Smooth Graphite (RAL7011)				
Custom Colour	Custom Colour Available		C6	Smooth Grey (RAL7035)				
	RAL****	Customer specified colour	C7	Textured Black (RAL9005)				
*Choosing a custor	m colour ma	ay increase the cost and lead time.	C9	Metallic Silver (RAL9006)				

Lumen data is considered to be representative of the configuration shown, and may vary, with a tolerance on flux of +/- 7% (typical of LED manufacturer's data) and luminaire power of +/- 5%.

The specifications of the Holophane luminaires represents typical values. All descriptions, illustrations, drawings and specifications in the Holophane catalogue, Datasheets and website represent only general particulars of the goods to which they apply and shall not form part of any contract. The company reserves the right to change specifications at its discretion without prior notification or public announcement.



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COLOUR TEMPERATURES

	Standard Colours Available
006)	C1 Smooth White (RAL9016)
	C4 Smooth Graphite (RAL7011)
	CG Smooth Grey (RAL7035)
specified colour	C7 Textured Black (RAL9005)
the cost and lead time.	C9 Metallic Silver (RAI 9006)



BREEAM P173-1727 - CO-OP DARNTON MAGHULL

Total Lumens

37,431	Installation ULR	Complies with environmental zones
Total Upward Lumens	0%	E0 & E1 & E2 & E3 & E4

CATALOGUE	ITEM REF	QUANTITY	LUMENS	POWER (W)	LLM/TcW	TOTAL LUMENS	TILT (°)	ULOR (%)	TOTAL UPWARD LUMENS
DPL.1.LA064.FWBL.C9.W048	А	4	5,725	48	119	22,900	-	0	0
DPL.1.LA064.AY.C9.W048	В	1	6,511	48	136	6,511	-	0	0
DPL.1.LA054.SY.C9.W038	С	1	5,428	38	143	5,428	-	0	0
DWL.1.LA014.AY.C9.W007	D	3	864	6	133	2,592	-	0	0

Required LLM/TcW: 70

Permissible ULR %: E0: 0% E1: 0% E2: up to 2.5% E3: up to 5% E4: up to 15%

Environmental zone level is based solely on the ULR.

The information provided is based on the latest the Institute of Lighting Professionals (ILP) Guidance notes for the reduction of obtrusive light and the latest BREEAM UK construction manual 2018. This assumes that all external lighting (except safety and security lighting) can automatically be switched off between 23:00 and 07:00. If safety or security lighting is required to be on during these hours, then it should comply with the levels recommended in the ILP guidance notes.

All values shown are the result of calculations derived from product specific photometry of luminaires positioned in a fixed relationship to each other and the statistical zone. In practice the values may vary due to tolerances in column installation, luminaire orientation, and surface reflectance, the substitution of alternative luminaires will not produce comparable results.





SUMMARY P173-1727 - CO-OP DARNTON MAGHULL

Line No.	Item Ref	Quantity	Catalogue
LUMINAIRE, CO	LUMN AND BRACK	ET PACKAGE	
10	А	4	DPL.1.LA064.FWBL.C9.W048
11	А	4	DPLB.6.1A.LMZ.GV
LUMINAIRE, CO	UMN AND BRACK	ET PACKAGE	
20	В	1	DPL.1.LA064.AY.C9.W048
21	В	1	DPLB.6.1A.LMZ.GV
LUMINAIRE, CO	LUMN AND BRACK	ET PACKAGE	
30	С	1	DPL.1.LA054.SY.C9.W038
31	С	1	DPLB.6.1A.LMZ.GV
LUMINAIRE			
40	D	3	DWL.1.LA014.AY.C9.W007

