

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P785073

Luminaire Tested: LER4DD45BD010-EC4DR7040509027-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR7040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4037.5 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

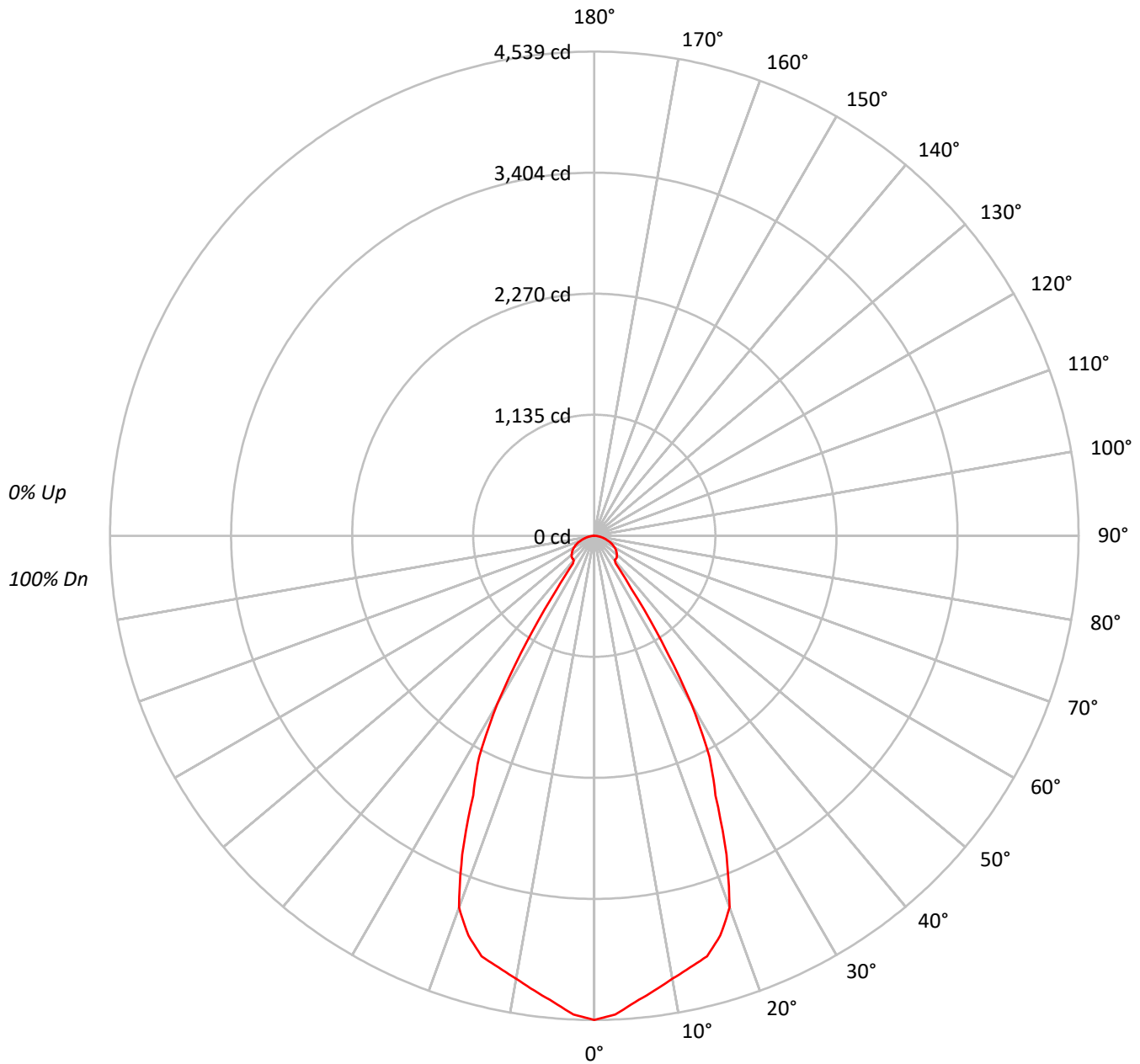


Downlight

TEST NUMBER: P785073

CATALOG NUMBER: LER4DD45BD010-EC4DR7040509027-4LBDP1H

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	495978
5°	481235
10°	467827
15°	461690
20°	431117
25°	323873
30°	228949
35°	81097
40°	42646
45°	45428
50°	47033
55°	47908
60°	48206
65°	47208
70°	44532
75°	41244
80°	36620
85°	29711

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 48235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	10.3
10°-20°	1135.2	28.1
20°-30°	1250.2	31.0
30°-40°	477.7	11.8
40°-50°	225.6	5.6
50°-60°	224.2	5.6
60°-70°	179.5	4.4
70°-80°	103.2	2.6
80°-90°	28.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2799.3	69.3
0°-40°	3277.0	81.2
0°-60°	3726.8	92.3
0°-90°	4037.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4539	
5°	4388	414
15°	4082	1135
25°	2686	1250
35°	608	478
45°	294	226
55°	252	224
65°	183	180
75°	98	103
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4539.4
2.5°	4491.9
5°	4387.7
7.5°	4300.8
10°	4216.7
12.5°	4145.5
15°	4081.6
17.5°	3927.0
20°	3707.8
22.5°	3234.9
25°	2686.5
27.5°	2338.7
30°	1814.7
32.5°	1172.2
35°	608.0
37.5°	328.5
40°	299.0
42.5°	296.8
45°	294.0
47.5°	287.5
50°	276.7
52.5°	264.5
55°	251.5
57.5°	237.2
60°	220.6
62.5°	202.0
65°	182.6
67.5°	161.0
70°	139.4
72.5°	117.9
75°	97.7
77.5°	76.9
80°	58.2
82.5°	41.0
85°	23.7
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)