

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: P785050

Luminaire Tested: LER4DD45BD010-EC4DR6540509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6540509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3680.1 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

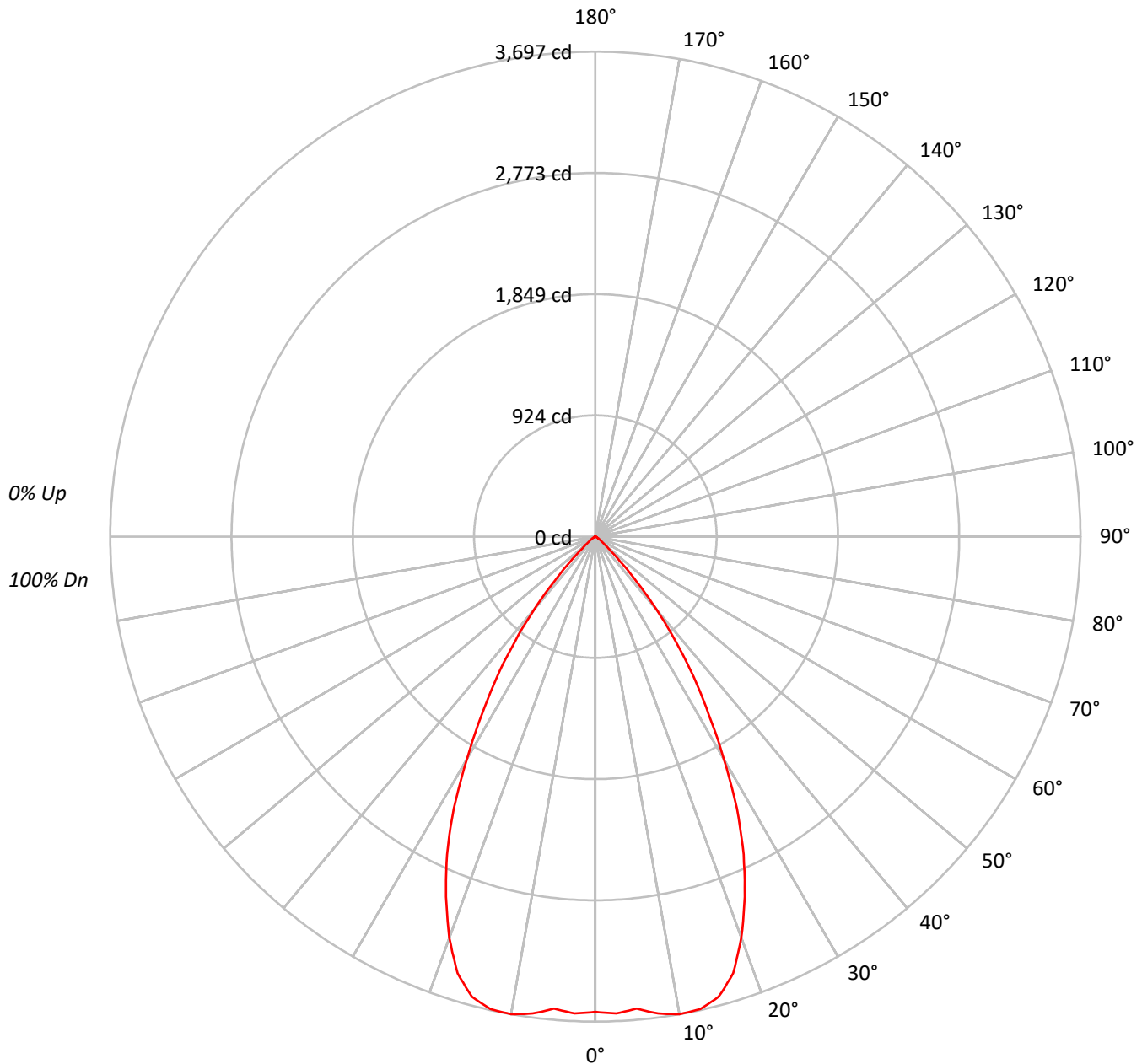


Downlight

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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	395895
5°	396223
10°	410168
15°	410845
20°	378259
25°	322294
30°	246725
35°	174305
40°	102893
45°	41766
50°	15145
55°	8439
60°	4829
65°	2663
70°	2811
75°	2153
80°	2265
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41766 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	9.5
10°-20°	1006.4	27.3
20°-30°	1207.5	32.8
30°-40°	811.5	22.1
40°-50°	242.9	6.6
50°-60°	42.9	1.2
60°-70°	12.2	0.3
70°-80°	6.0	0.2
80°-90°	1.9	0.1
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°	2562.8	69.6
0°-40°	3374.3	91.7
0°-60°	3660.1	99.5
0°-90°	3680.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3680.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3623	
5°	3613	349
15°	3632	1006
25°	2673	1208
35°	1307	811
45°	270	243
55°	44	43
65°	10	12
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3623.4
2.5°	3638.8
5°	3612.6
7.5°	3667.1
10°	3697.0
12.5°	3689.8
15°	3632.1
17.5°	3491.0
20°	3253.2
22.5°	2973.1
25°	2673.4
27.5°	2335.1
30°	1955.6
32.5°	1611.6
35°	1306.8
37.5°	1005.6
40°	721.4
42.5°	471.1
45°	270.3
47.5°	143.1
50°	89.1
52.5°	61.8
55°	44.3
57.5°	31.9
60°	22.1
62.5°	14.4
65°	10.3
67.5°	9.3
70°	8.8
72.5°	6.7
75°	5.1
77.5°	4.6
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)