

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: P781481

Luminaire Tested: LER4D45BD010-EC4DR3040509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR3040509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.5 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

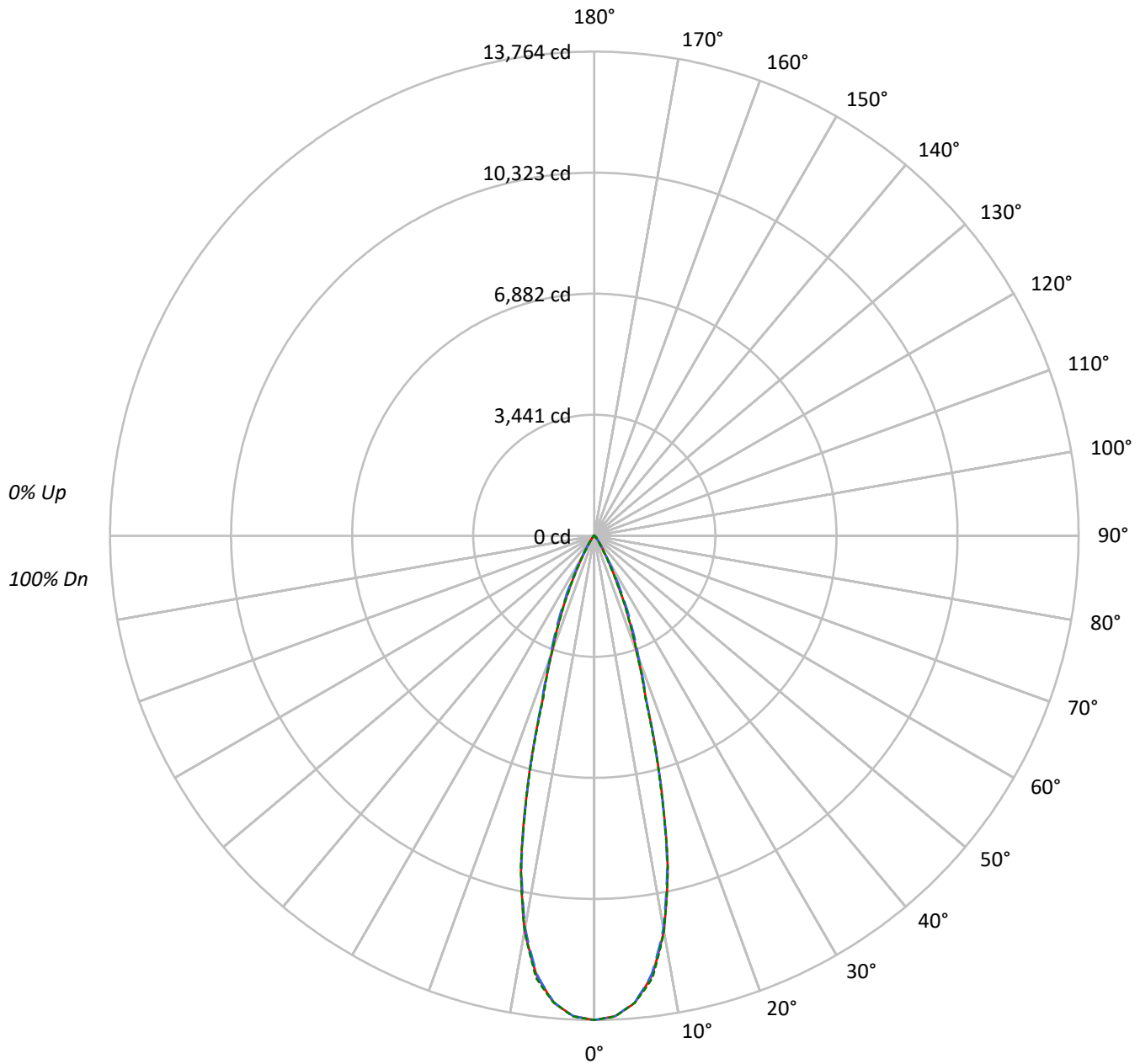


Downlight

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1053528	1053528	1053528
5°	1023284	1022093	1023337
10°	886320	880071	886110
15°	578280	575173	572281
20°	287555	298340	287164
25°	144851	163338	141878
30°	57998	63195	50530
35°	26902	25762	21594
40°	11611	12900	10941
45°	8194	10165	8270
50°	2822	7407	2977
55°	1628	3069	1708
60°	1133	1347	1133
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10165 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1210.3	28.3
10°-20°	1949.2	45.5
20°-30°	842.3	19.7
30°-40°	192.0	4.5
40°-50°	65.9	1.5
50°-60°	16.1	0.4
60°-70°	4.2	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	4001.9	93.5
0°-40°	4193.9	98.0
0°-60°	4275.9	99.9
0°-90°	4280.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13764	13764	13764	13764	13764	
5°	13318	13305	13302	13330	13318	1211
15°	7298	7210	7258	7235	7222	1954
25°	1715	1780	1934	1735	1680	821
35°	288	294	276	274	231	195
45°	76	94	94	94	76	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13763.8	13763.8	13763.8	13763.8	13763.8
2.5°	13672.6	13663.2	13668.6	13675.3	13678.0
5°	13317.8	13305.0	13302.3	13330.0	13318.5
7.5°	12602.2	12584.0	12556.3	12619.1	12677.9
10°	11403.4	11383.2	11323.0	11352.7	11400.7
12.5°	9633.6	9568.1	9566.7	9661.3	9648.5
15°	7297.5	7209.7	7258.3	7234.7	7221.8
17.5°	4907.4	4873.6	4938.4	4918.8	4834.4
20°	3530.2	3538.9	3662.6	3600.4	3525.4
22.5°	2576.0	2607.8	2754.4	2594.2	2535.4
25°	1715.1	1779.9	1934.0	1734.7	1679.9
27.5°	1054.9	1084.6	1240.7	1041.3	1011.6
30°	656.2	641.3	715.0	613.6	571.7
32.5°	430.5	411.5	435.2	390.6	356.8
35°	287.9	294.0	275.7	273.7	231.1
37.5°	179.8	206.8	182.5	194.6	148.7
40°	116.2	150.0	129.1	142.6	109.5
42.5°	95.3	115.6	106.1	112.9	97.3
45°	75.7	93.9	93.9	93.9	76.4
47.5°	41.9	62.8	80.4	64.2	44.6
50°	23.7	31.8	62.2	33.1	25.0
52.5°	16.2	18.2	42.6	18.9	16.9
55°	12.2	12.8	23.0	13.5	12.8
57.5°	9.5	10.1	12.2	10.1	9.5
60°	7.4	7.4	8.8	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)