

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: P781651

Luminaire Tested: LER4D45BD010-EC4DR6540509035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR6540509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.7 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

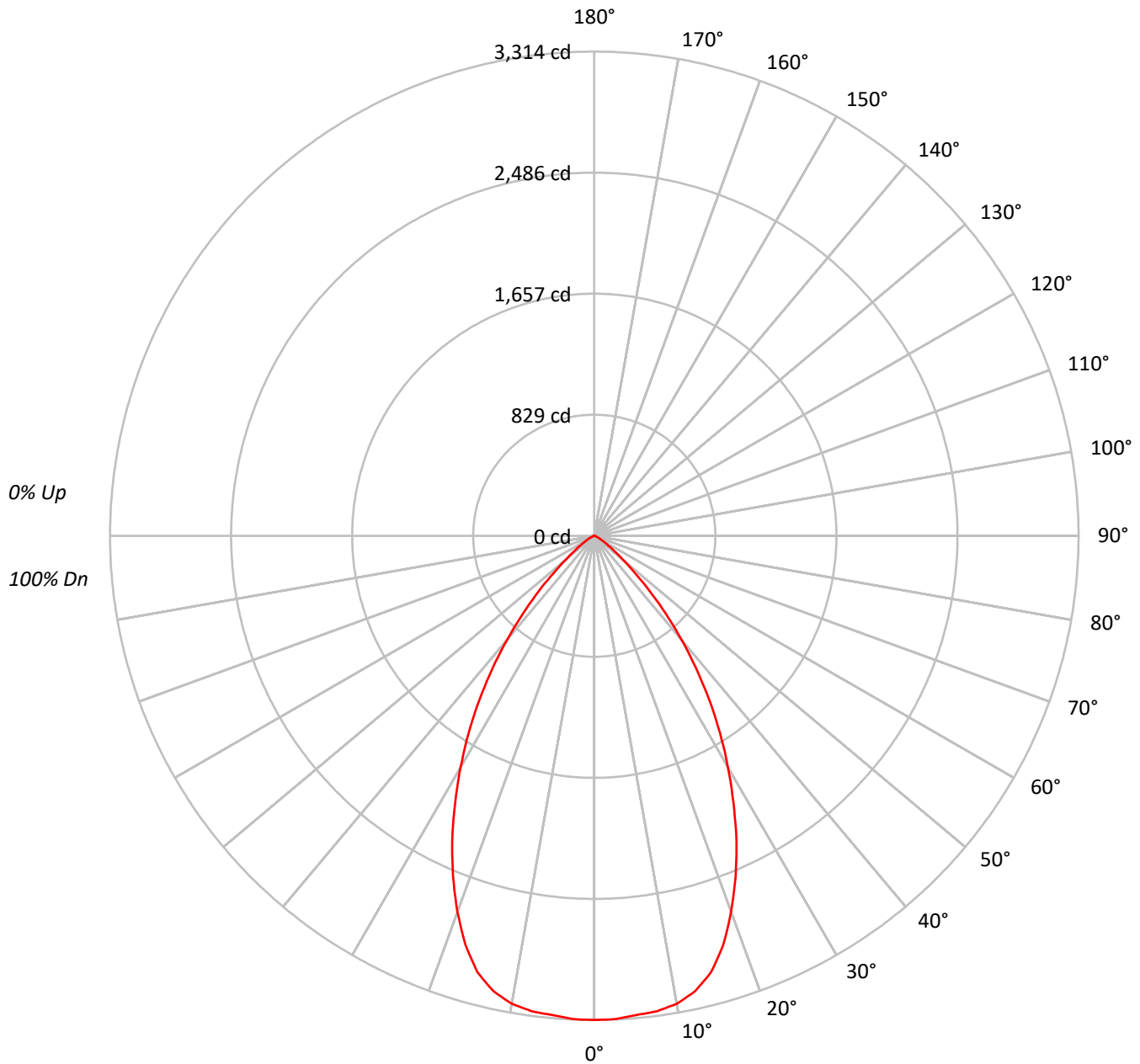


Downlight

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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	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	193545
5°	193053
10°	192889
15°	186943
20°	170185
25°	148306
30°	123353
35°	97735
40°	70538
45°	44569
50°	23233
55°	12351
60°	6483
65°	3565
70°	1503
75°	1647
80°	1144
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	8.6
10°-20°	858.2	23.5
20°-30°	1049.0	28.7
30°-40°	851.1	23.3
40°-50°	424.1	11.6
50°-60°	118.3	3.2
60°-70°	26.9	0.7
70°-80°	7.0	0.2
80°-90°	1.8	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°	2220.5	60.8
0°-40°	3071.6	84.2
0°-60°	3614.1	99.0
0°-90°	3649.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3649.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3314	
5°	3293	313
15°	3092	858
25°	2301	1049
35°	1371	851
45°	540	424
55°	121	118
65°	26	27
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3313.9
2.5°	3311.4
5°	3292.9
7.5°	3282.2
10°	3252.5
12.5°	3192.1
15°	3091.8
17.5°	2935.0
20°	2738.2
22.5°	2525.9
25°	2301.4
27.5°	2061.4
30°	1829.1
32.5°	1599.7
35°	1370.8
37.5°	1142.4
40°	925.2
42.5°	721.7
45°	539.6
47.5°	375.9
50°	255.7
52.5°	176.3
55°	121.3
57.5°	81.8
60°	55.5
62.5°	38.5
65°	25.8
67.5°	13.1
70°	8.8
72.5°	8.3
75°	7.3
77.5°	4.9
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
90°	0.0



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)