

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: P781647

Luminaire Tested: LER4D45BD010-EC4DR6540509030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781647
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-EC4DR6540509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.6 lumens
Efficiency: N/A
Efficacy: 93.3 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

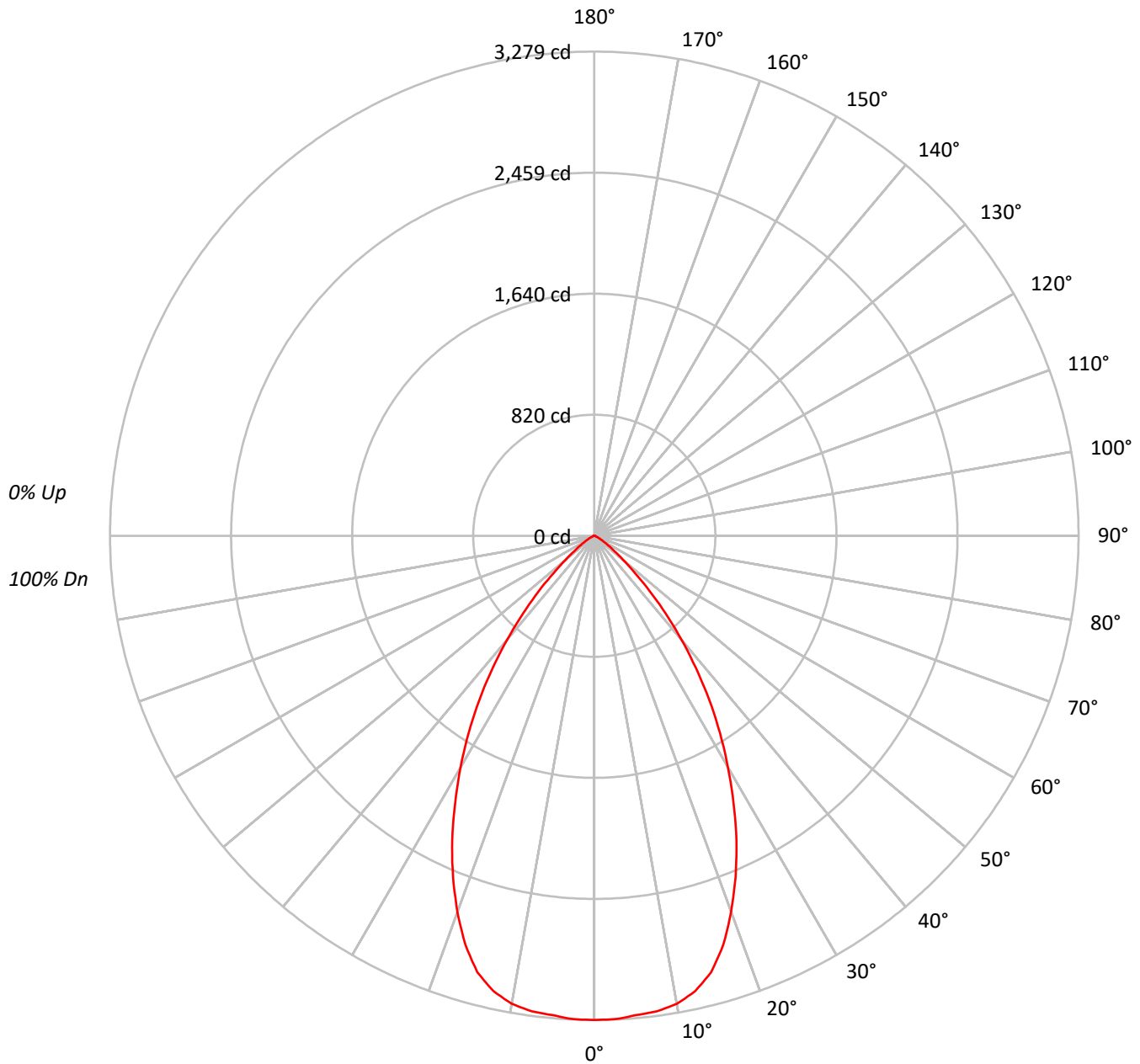


Downlight

TEST NUMBER: P781647

CATALOG NUMBER: LER4D45BD010-EC4DR6540509030-4LBS1MW

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°	191524
5°	191042
10°	190879
15°	184996
20°	168414
25°	146759
30°	122065
35°	96716
40°	69806
45°	44098
50°	22988
55°	12219
60°	6413
65°	3524
70°	1486
75°	1625
80°	1144
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 44098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.1	8.6
10°-20°	849.2	23.5
20°-30°	1038.0	28.7
30°-40°	842.2	23.3
40°-50°	419.7	11.6
50°-60°	117.1	3.2
60°-70°	26.6	0.7
70°-80°	6.9	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°	2197.4	60.8
0°-40°	3039.6	84.2
0°-60°	3576.4	99.0
0°-90°	3611.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3279	
5°	3259	310
15°	3060	849
25°	2277	1038
35°	1356	842
45°	534	420
55°	120	117
65°	26	27
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3279.3
2.5°	3276.9
5°	3258.6
7.5°	3248.0
10°	3218.6
12.5°	3158.8
15°	3059.6
17.5°	2904.4
20°	2709.7
22.5°	2499.6
25°	2277.4
27.5°	2039.9
30°	1810.0
32.5°	1583.0
35°	1356.5
37.5°	1130.5
40°	915.6
42.5°	714.2
45°	533.9
47.5°	372.0
50°	253.0
52.5°	174.4
55°	120.0
57.5°	81.0
60°	54.9
62.5°	38.1
65°	25.5
67.5°	13.0
70°	8.7
72.5°	8.2
75°	7.2
77.5°	4.8
80°	3.4
82.5°	2.4
85°	1.4
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)