

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: P781641

Luminaire Tested: LER4D45BD010-EC4DR6540509027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781641
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-EC4DR6540509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 3689.4 lumens
Efficiency: N/A
Efficacy: 95.3 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

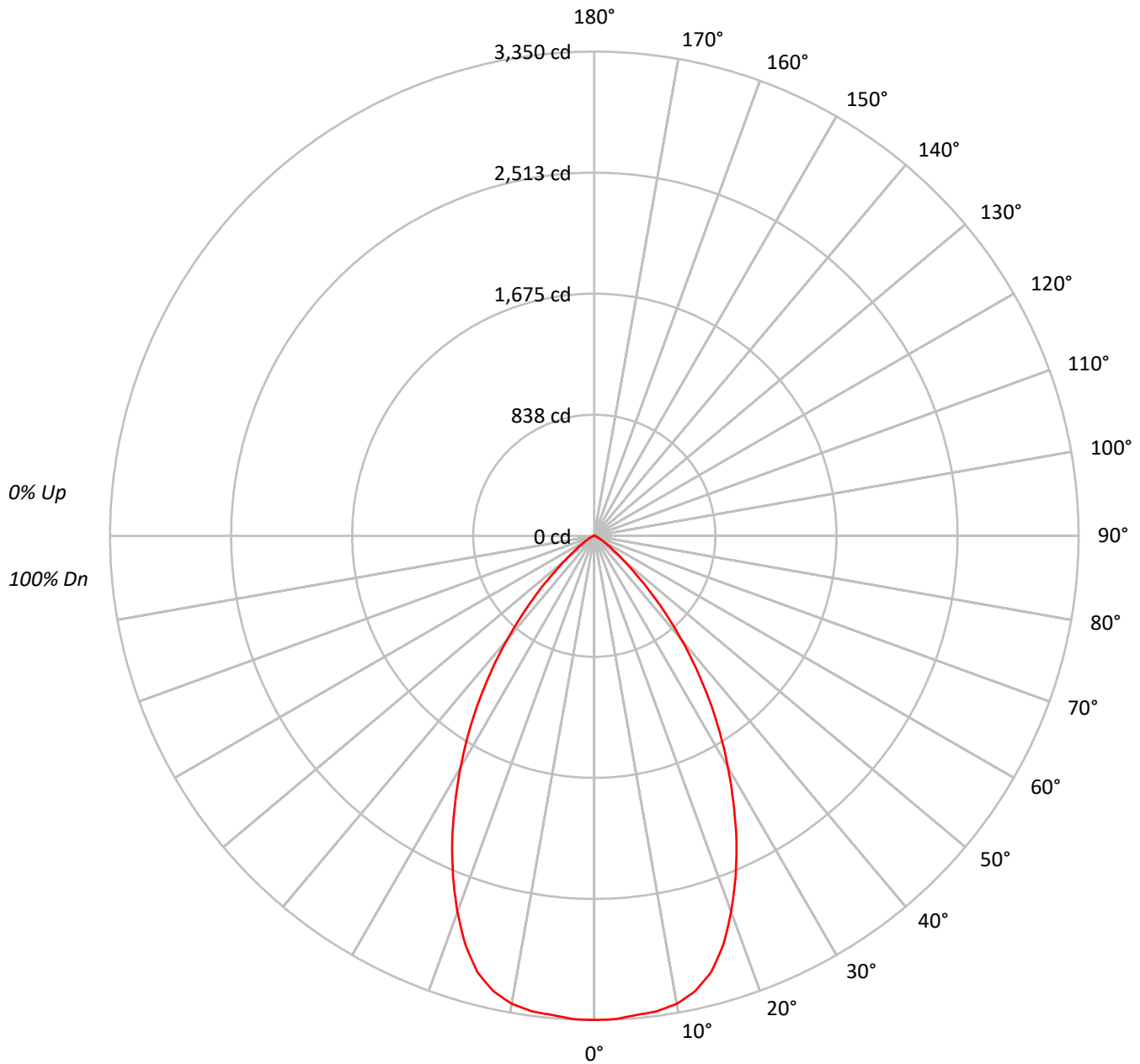


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195647
5°	195152
10°	194982
15°	188975
20°	172037
25°	149917
30°	124688
35°	98798
40°	71308
45°	45048
50°	23478
55°	12484
60°	6553
65°	3607
70°	1520
75°	1670
80°	1144
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	8.6
10°-20°	867.5	23.5
20°-30°	1060.4	28.7
30°-40°	860.4	23.3
40°-50°	428.7	11.6
50°-60°	119.6	3.2
60°-70°	27.2	0.7
70°-80°	7.1	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°	2244.7	60.8
0°-40°	3105.0	84.2
0°-60°	3653.3	99.0
0°-90°	3689.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3350	
5°	3329	317
15°	3125	867
25°	2326	1060
35°	1386	860
45°	545	429
55°	123	120
65°	26	27
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3349.9
2.5°	3347.4
5°	3328.7
7.5°	3317.9
10°	3287.8
12.5°	3226.8
15°	3125.4
17.5°	2966.9
20°	2768.0
22.5°	2553.4
25°	2326.4
27.5°	2083.8
30°	1848.9
32.5°	1617.1
35°	1385.7
37.5°	1154.9
40°	935.3
42.5°	729.5
45°	545.4
47.5°	380.0
50°	258.4
52.5°	178.2
55°	122.6
57.5°	82.7
60°	56.1
62.5°	38.9
65°	26.1
67.5°	13.3
70°	8.9
72.5°	8.4
75°	7.4
77.5°	4.9
80°	3.4
82.5°	2.5
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)