

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: P781888

Luminaire Tested: LER4D50D010-EC4DR6540509035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781888
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: LER4D50D010-EC4DR6540509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4188.1 lumens
Efficiency: N/A
Efficacy: 89.1 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): 47
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

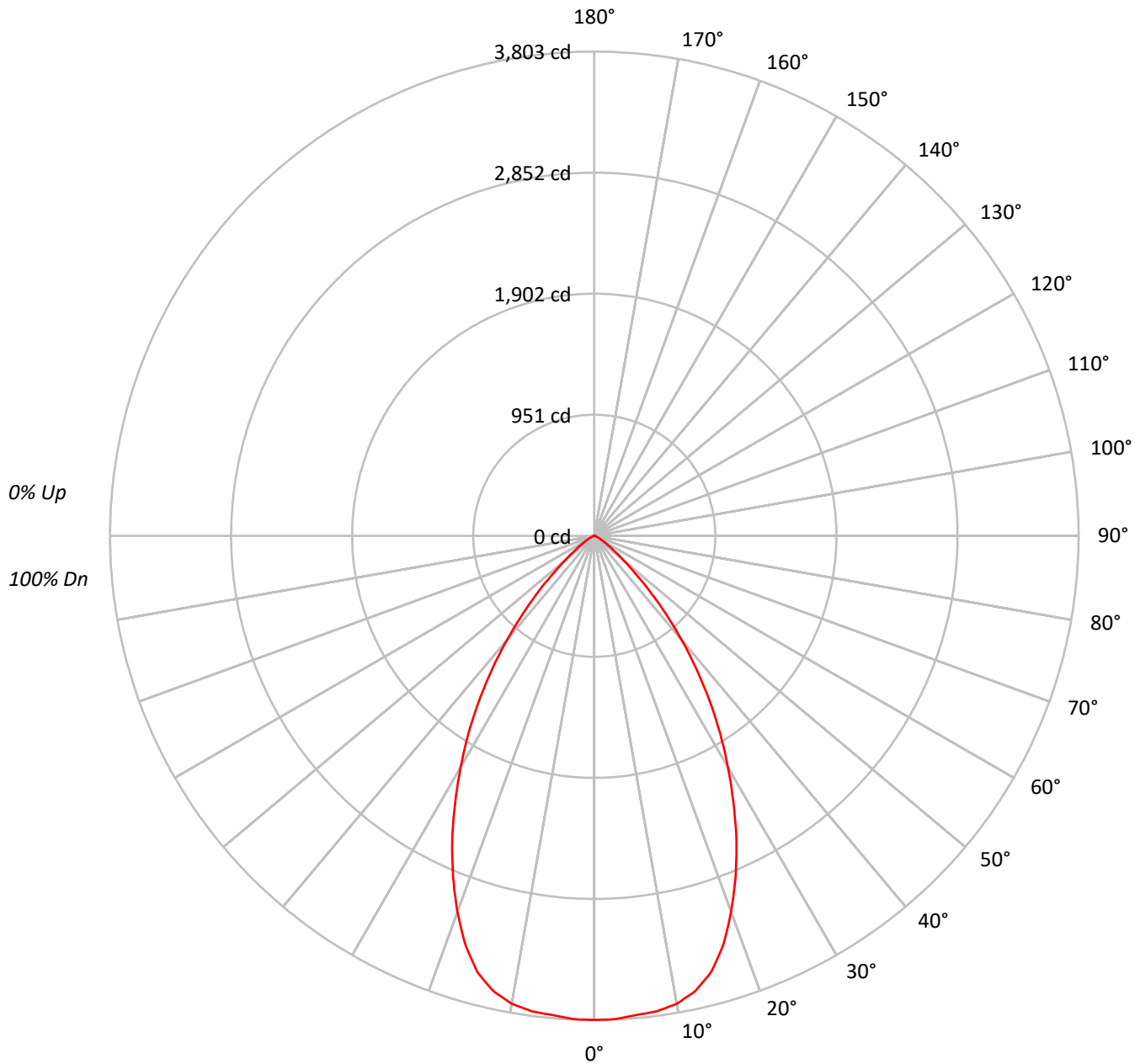


Downlight

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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°	222092
5°	221534
10°	221343
15°	214521
20°	195294
25°	170184
30°	141548
35°	112152
40°	80945
45°	51143
50°	26658
55°	14164
60°	7441
65°	4091
70°	1725
75°	1896
80°	1312
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	8.6
10°-20°	984.8	23.5
20°-30°	1203.7	28.7
30°-40°	976.7	23.3
40°-50°	486.7	11.6
50°-60°	135.7	3.2
60°-70°	30.8	0.7
70°-80°	8.0	0.2
80°-90°	2.1	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°	2548.1	60.8
0°-40°	3524.7	84.2
0°-60°	4147.2	99.0
0°-90°	4188.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4188.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3803	
5°	3779	360
15°	3548	985
25°	2641	1204
35°	1573	977
45°	619	487
55°	139	136
65°	30	31
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3802.7
2.5°	3799.9
5°	3778.7
7.5°	3766.4
10°	3732.3
12.5°	3663.0
15°	3547.9
17.5°	3367.9
20°	3142.2
22.5°	2898.5
25°	2640.9
27.5°	2365.4
30°	2098.9
32.5°	1835.7
35°	1573.0
37.5°	1311.0
40°	1061.7
42.5°	828.2
45°	619.2
47.5°	431.4
50°	293.4
52.5°	202.3
55°	139.1
57.5°	93.9
60°	63.7
62.5°	44.1
65°	29.6
67.5°	15.1
70°	10.1
72.5°	9.5
75°	8.4
77.5°	5.6
80°	3.9
82.5°	2.8
85°	1.7
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)