

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: P781899

Luminaire Tested: LER4D50D010-EC4DR6540509050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781899
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-EC4DR6540509050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4518.7 lumens
Efficiency: N/A
Efficacy: 96.1 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

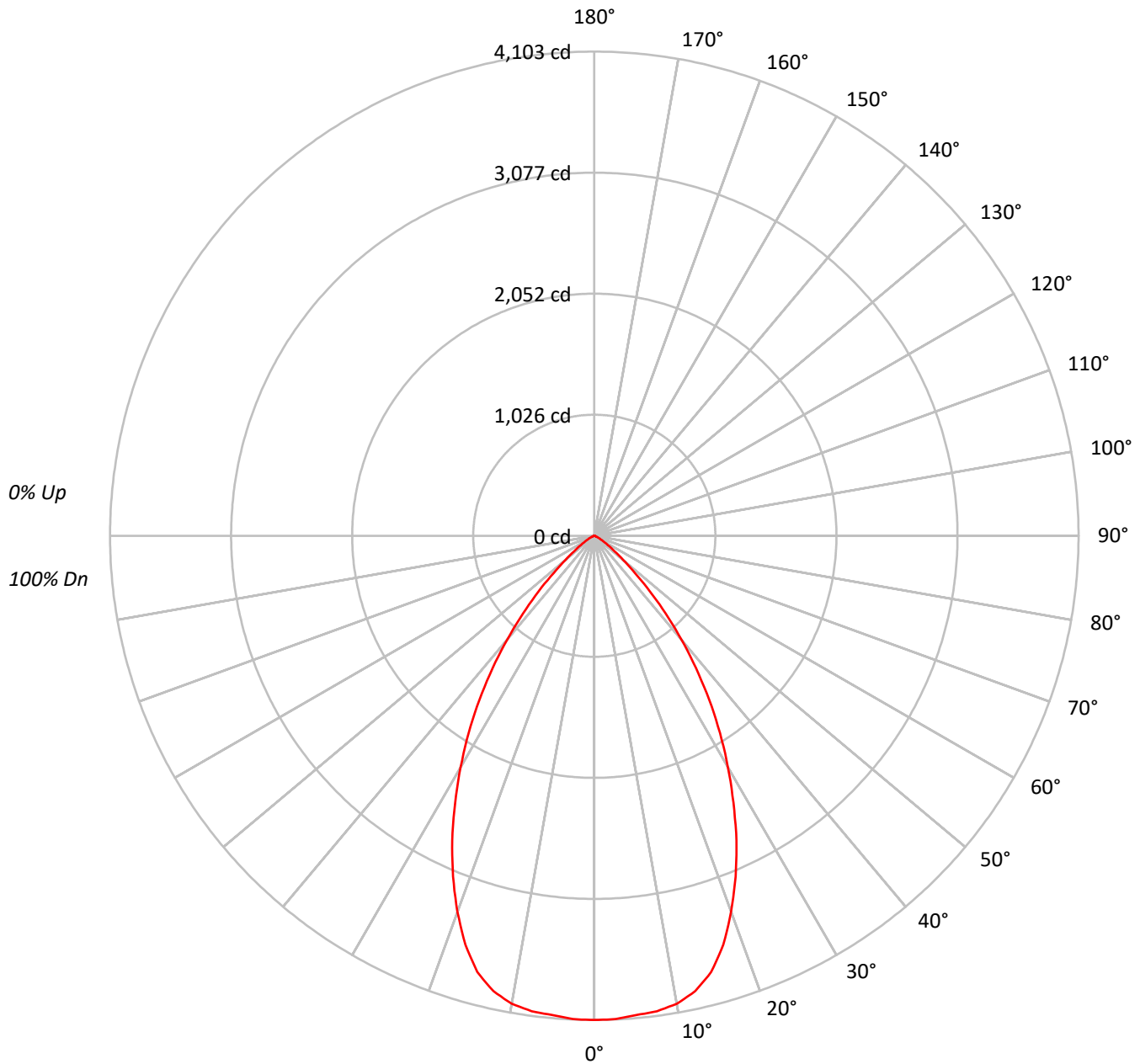


Downlight

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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°	239625
5°	239016
10°	238815
15°	231451
20°	210708
25°	183620
30°	152722
35°	121007
40°	87334
45°	55174
50°	28757
55°	15284
60°	8025
65°	4422
70°	1861
75°	2031
80°	1413
85°	1206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55174 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	8.6
10°-20°	1062.5	23.5
20°-30°	1298.7	28.7
30°-40°	1053.7	23.3
40°-50°	525.1	11.6
50°-60°	146.5	3.2
60°-70°	33.3	0.7
70°-80°	8.6	0.2
80°-90°	2.2	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°	2749.2	60.8
0°-40°	3803.0	84.2
0°-60°	4474.5	99.0
0°-90°	4518.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4103	
5°	4077	388
15°	3828	1062
25°	2849	1299
35°	1697	1054
45°	668	525
55°	150	146
65°	32	33
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4102.9
2.5°	4099.8
5°	4076.9
7.5°	4063.7
10°	4026.9
12.5°	3952.1
15°	3827.9
17.5°	3633.8
20°	3390.2
22.5°	3127.3
25°	2849.4
27.5°	2552.2
30°	2264.6
32.5°	1980.6
35°	1697.2
37.5°	1414.4
40°	1145.5
42.5°	893.5
45°	668.0
47.5°	465.5
50°	316.5
52.5°	218.3
55°	150.1
57.5°	101.3
60°	68.7
62.5°	47.6
65°	32.0
67.5°	16.3
70°	10.9
72.5°	10.2
75°	9.0
77.5°	6.0
80°	4.2
82.5°	3.0
85°	1.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)