

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: P781890

Luminaire Tested: LER4D50D010-EC4DR6540509035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781890
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-EC4DR6540509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.4 lumens
Efficiency: N/A
Efficacy: 100.8 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

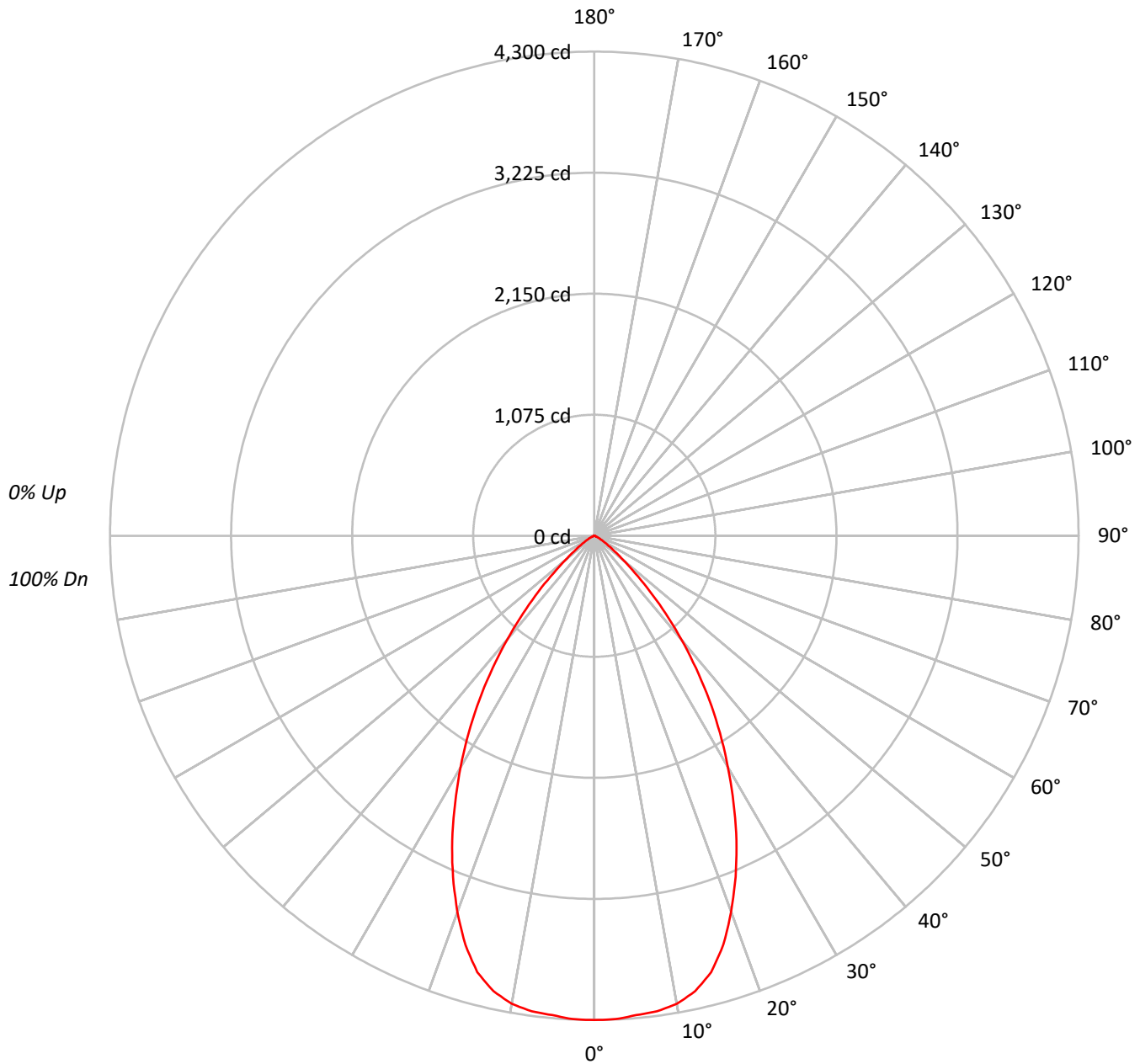


Downlight

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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°	251166
5°	250531
10°	250314
15°	242600
20°	220857
25°	192461
30°	160073
35°	126839
40°	91542
45°	57833
50°	30147
55°	16027
60°	8410
65°	4630
70°	1947
75°	2144
80°	1480
85°	1273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	8.6
10°-20°	1113.7	23.5
20°-30°	1361.3	28.7
30°-40°	1104.5	23.3
40°-50°	550.4	11.6
50°-60°	153.5	3.2
60°-70°	34.9	0.7
70°-80°	9.1	0.2
80°-90°	2.3	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°	2881.6	60.8
0°-40°	3986.2	84.2
0°-60°	4690.1	99.0
0°-90°	4736.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4300	
5°	4273	407
15°	4012	1114
25°	2987	1361
35°	1779	1105
45°	700	550
55°	157	154
65°	34	35
75°	10	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4300.5
2.5°	4297.3
5°	4273.3
7.5°	4259.4
10°	4220.8
12.5°	4142.5
15°	4012.3
17.5°	3808.8
20°	3553.5
22.5°	3278.0
25°	2986.6
27.5°	2675.1
30°	2373.6
32.5°	2076.0
35°	1779.0
37.5°	1482.6
40°	1200.7
42.5°	936.6
45°	700.2
47.5°	487.9
50°	331.8
52.5°	228.8
55°	157.4
57.5°	106.2
60°	72.0
62.5°	49.9
65°	33.5
67.5°	17.1
70°	11.4
72.5°	10.7
75°	9.5
77.5°	6.3
80°	4.4
82.5°	3.2
85°	1.9
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)