

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: P781897

Luminaire Tested: LER4D50D010-EC4DR6540509050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781897
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-EC4DR6540509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.3 lumens
Efficiency: N/A
Efficacy: 101.2 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

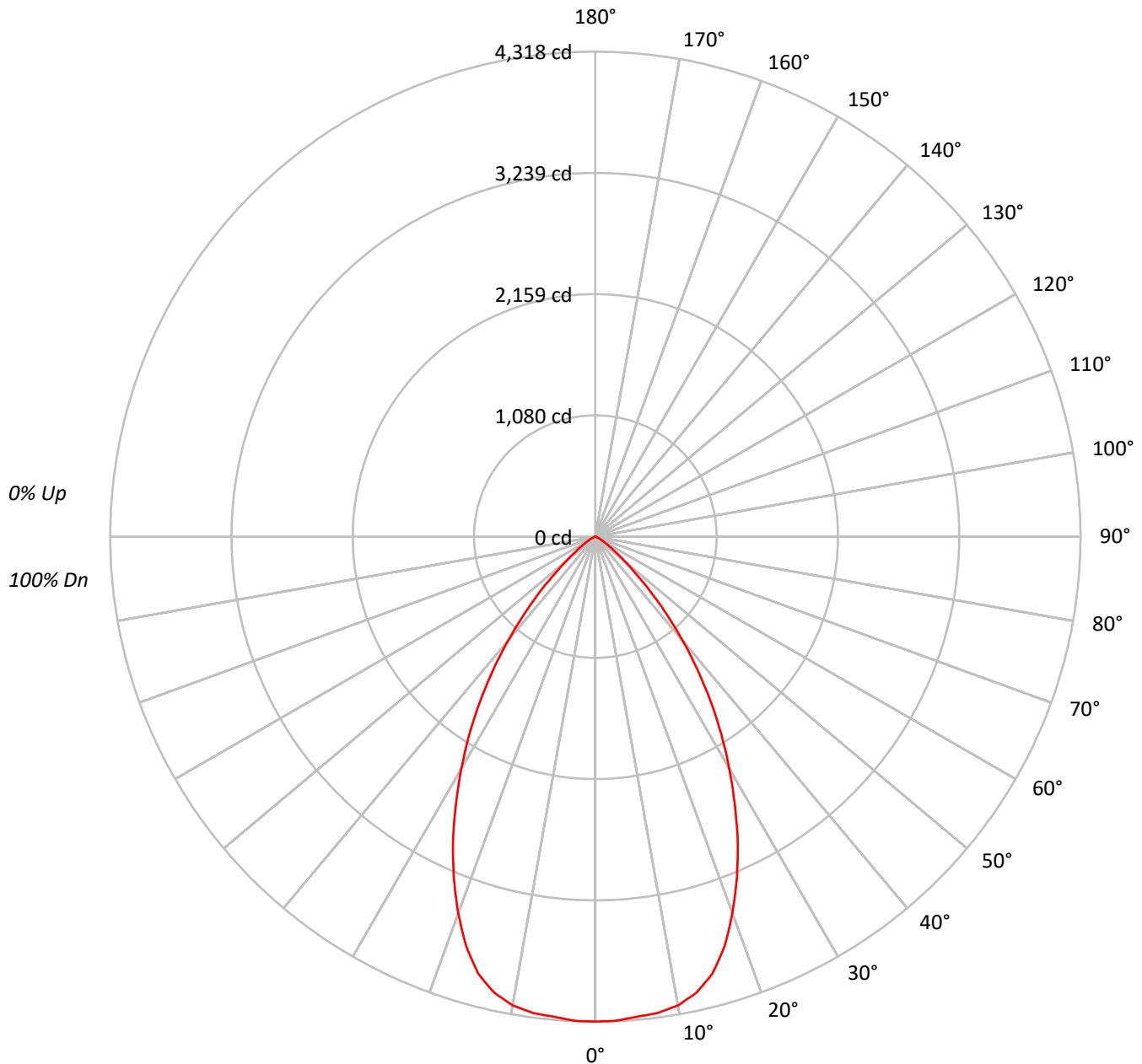


Downlight

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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°	252176
5°	251539
10°	251322
15°	243574
20°	221746
25°	193241
30°	160721
35°	127345
40°	91916
45°	58065
50°	30266
55°	16088
60°	8445
65°	4643
70°	1947
75°	2144
80°	1480
85°	1273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58065 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	8.6
10°-20°	1118.1	23.5
20°-30°	1366.8	28.7
30°-40°	1108.9	23.3
40°-50°	552.6	11.6
50°-60°	154.1	3.2
60°-70°	35.0	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°	2893.2	60.8
0°-40°	4002.2	84.2
0°-60°	4708.9	99.0
0°-90°	4755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4318	
5°	4290	408
15°	4028	1118
25°	2999	1367
35°	1786	1109
45°	703	553
55°	158	154
65°	34	35
75°	10	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4317.8
2.5°	4314.6
5°	4290.5
7.5°	4276.5
10°	4237.8
12.5°	4159.2
15°	4028.4
17.5°	3824.1
20°	3567.8
22.5°	3291.2
25°	2998.7
27.5°	2685.8
30°	2383.2
32.5°	2084.3
35°	1786.1
37.5°	1488.5
40°	1205.6
42.5°	940.3
45°	703.0
47.5°	489.8
50°	333.1
52.5°	229.7
55°	158.0
57.5°	106.6
60°	72.3
62.5°	50.1
65°	33.6
67.5°	17.1
70°	11.4
72.5°	10.8
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)