

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: P780469

Luminaire Tested: LER4D25D010-EC4DR3020359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR3020359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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



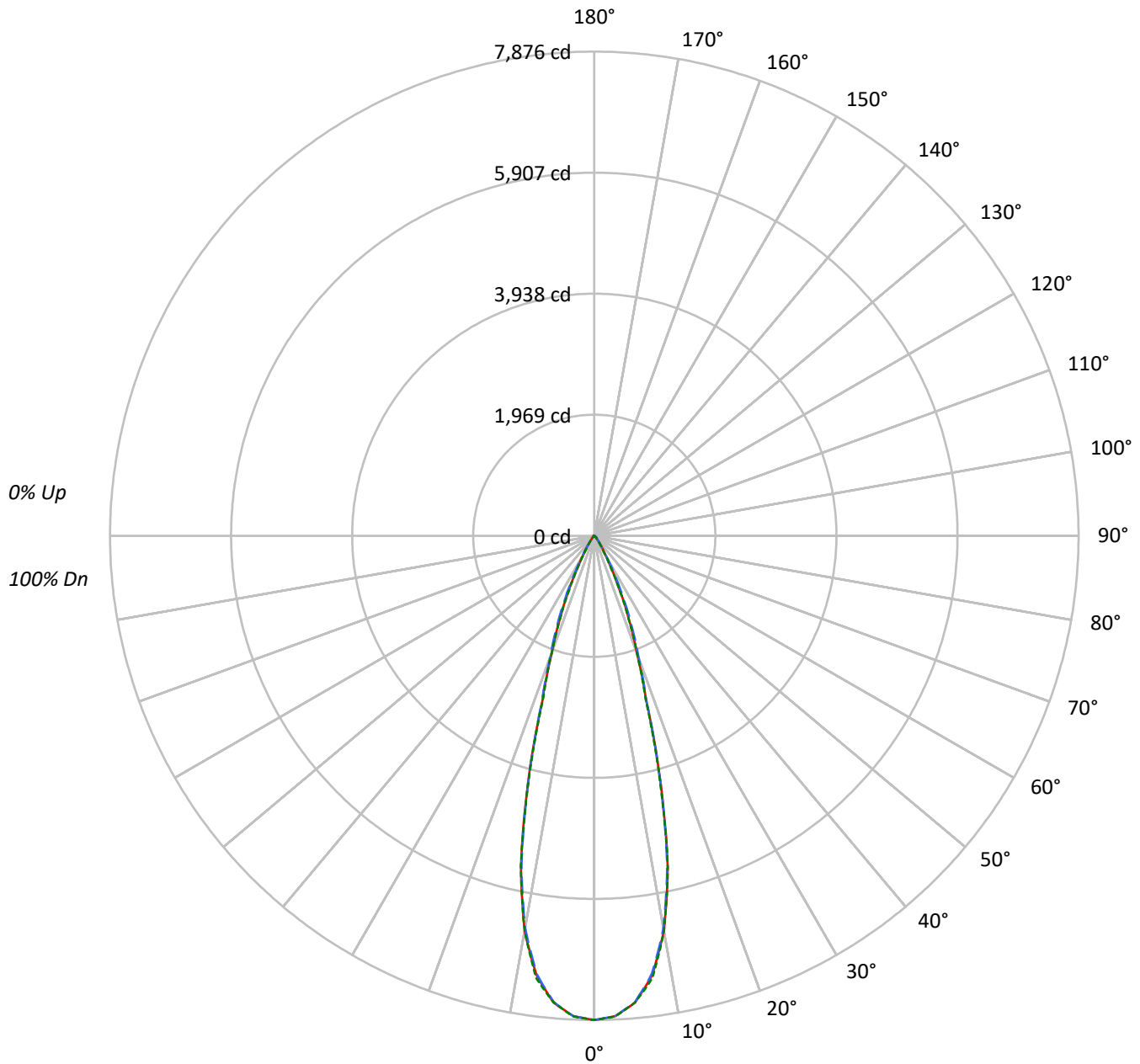
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	602840	602840	602840
5°	585535	584859	585565
10°	507166	503591	507042
15°	330897	329122	327466
20°	164541	170715	164321
25°	82885	93468	81188
30°	33188	36158	28919
35°	15390	14745	12353
40°	6645	7384	6255
45°	4687	5813	4730
50°	1608	4239	1703
55°	921	1748	974
60°	643	765	643
65°	417	417	417
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.6	28.3
10°-20°	1115.4	45.5
20°-30°	482.0	19.7
30°-40°	109.9	4.5
40°-50°	37.7	1.5
50°-60°	9.2	0.4
60°-70°	2.4	0.1
70°-80°	0.2	0.0
80°-90°	0.0	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°	2289.9	93.5
0°-40°	2399.8	98.0
0°-60°	2446.7	99.9
0°-90°	2449.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7876	7876	7876	7876	7876	
5°	7621	7613	7612	7628	7621	693
15°	4176	4126	4153	4140	4132	1118
25°	981	1018	1107	993	961	470
35°	165	168	158	157	132	112
45°	43	54	54	54	44	31
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7875.8	7875.8	7875.8	7875.8	7875.8
2.5°	7823.6	7818.2	7821.3	7825.2	7826.7
5°	7620.6	7613.3	7611.8	7627.6	7621.0
7.5°	7211.2	7200.7	7184.9	7220.8	7254.5
10°	6525.2	6513.6	6479.2	6496.2	6523.6
12.5°	5512.5	5474.9	5474.2	5528.3	5521.0
15°	4175.7	4125.5	4153.3	4139.7	4132.4
17.5°	2808.0	2788.7	2825.9	2814.6	2766.3
20°	2020.0	2025.0	2095.8	2060.2	2017.3
22.5°	1474.0	1492.2	1576.1	1484.5	1450.8
25°	981.4	1018.5	1106.7	992.6	961.3
27.5°	603.6	620.6	709.9	595.9	578.9
30°	375.5	367.0	409.1	351.1	327.2
32.5°	246.3	235.5	249.0	223.5	204.1
35°	164.7	168.2	157.8	156.6	132.2
37.5°	102.8	118.3	104.4	111.4	85.1
40°	66.5	85.8	73.9	81.6	62.6
42.5°	54.5	66.1	60.7	64.6	55.7
45°	43.3	53.7	53.7	53.7	43.7
47.5°	23.9	36.0	46.0	36.7	25.5
50°	13.5	18.2	35.6	19.0	14.3
52.5°	9.3	10.4	24.4	10.8	9.7
55°	6.9	7.3	13.1	7.7	7.3
57.5°	5.4	5.8	6.9	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)