

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: P780471

Luminaire Tested: LER4D25D010-EC4DR3020359030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780471
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-EC4DR3020359030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2328.2 lumens
Efficiency: N/A
Efficacy: 92.8 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



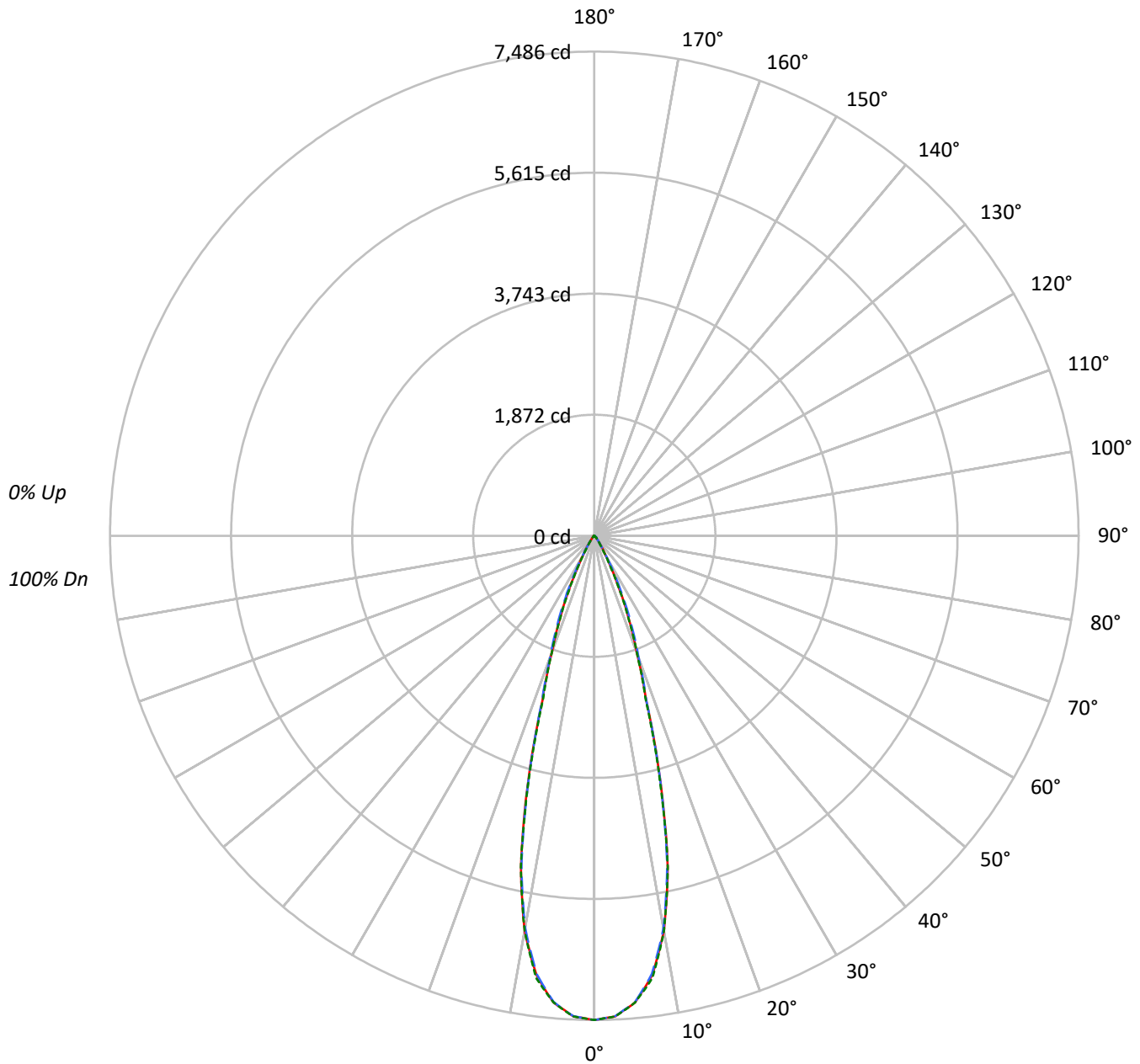
Downlight



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	573034	573034	573034
5°	556583	555930	556614
10°	482084	478688	481968
15°	314534	312846	311277
20°	156403	162268	156200
25°	78789	88840	77168
30°	31544	34373	27479
35°	14633	14007	11746
40°	6315	7014	5945
45°	4449	5532	4492
50°	1536	4025	1619
55°	881	1668	934
60°	628	735	628
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.3	28.3
10°-20°	1060.2	45.5
20°-30°	458.1	19.7
30°-40°	104.4	4.5
40°-50°	35.9	1.5
50°-60°	8.8	0.4
60°-70°	2.3	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°	2176.7	93.5
0°-40°	2281.1	98.0
0°-60°	2325.7	99.9
0°-90°	2328.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7486	7486	7486	7486	7486	
5°	7244	7237	7235	7250	7244	659
15°	3969	3921	3948	3935	3928	1063
25°	933	968	1052	944	914	447
35°	157	160	150	149	126	106
45°	41	51	51	51	42	29
55°	7	7	12	7	7	6
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°	7486.4	7486.4	7486.4	7486.4	7486.4
2.5°	7436.8	7431.6	7434.6	7438.2	7439.7
5°	7243.8	7236.8	7235.3	7250.4	7244.2
7.5°	6854.6	6844.6	6829.6	6863.8	6895.7
10°	6202.5	6191.5	6158.8	6175.0	6201.0
12.5°	5239.9	5204.2	5203.5	5254.9	5248.0
15°	3969.2	3921.4	3947.9	3935.1	3928.1
17.5°	2669.2	2650.8	2686.1	2675.5	2629.5
20°	1920.1	1924.9	1992.1	1958.3	1917.6
22.5°	1401.2	1418.4	1498.2	1411.1	1379.1
25°	932.9	968.2	1051.9	943.5	913.7
27.5°	573.8	589.9	674.8	566.4	550.2
30°	356.9	348.8	388.9	333.7	310.9
32.5°	234.1	223.9	236.7	212.5	194.1
35°	156.6	159.9	149.9	148.9	125.7
37.5°	97.7	112.5	99.2	105.9	80.8
40°	63.2	81.6	70.2	77.6	59.5
42.5°	51.9	62.9	57.7	61.4	52.9
45°	41.1	51.1	51.1	51.1	41.5
47.5°	22.8	34.2	43.7	34.9	24.2
50°	12.9	17.3	33.8	18.0	13.6
52.5°	8.8	9.9	23.1	10.3	9.2
55°	6.6	7.0	12.5	7.3	7.0
57.5°	5.2	5.5	6.6	5.5	5.2
60°	4.1	4.1	4.8	4.4	4.1
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
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	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)