

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: P745103

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745103
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: LD4D25D010-EU4DR3020359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2757.2 lumens
Efficiency: N/A
Efficacy: 109.8 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 (A_{in}): 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

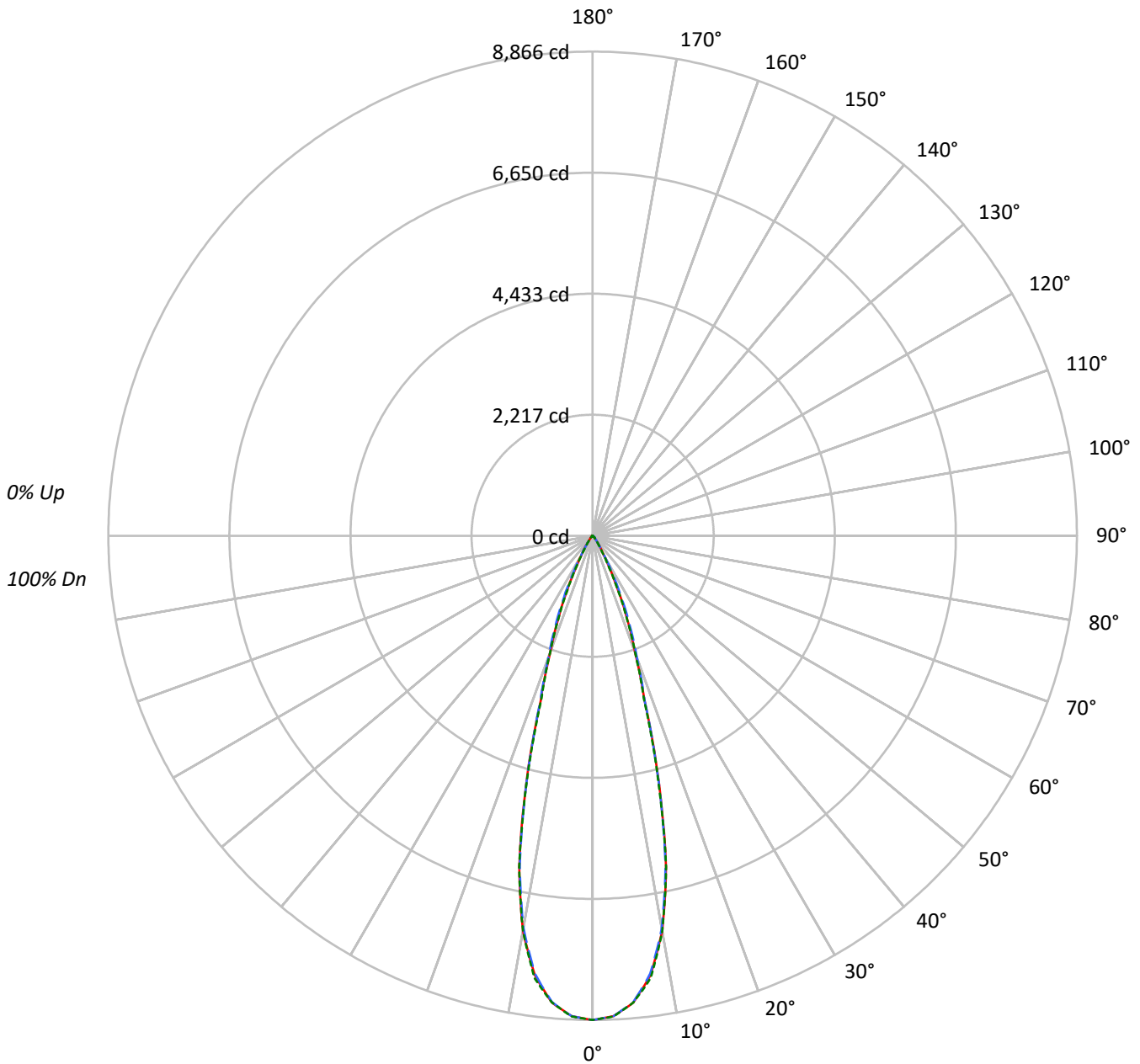


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	678611	678611	678611
5°	659128	658360	659159
10°	570900	566874	570768
15°	372484	370487	368625
20°	185222	192170	184970
25°	93299	105216	91390
30°	37360	40701	32543
35°	17324	16595	13914
40°	7484	8303	7044
45°	5283	6549	5326
50°	1810	4763	1917
55°	1041	1975	1108
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.6	28.3
10°-20°	1255.6	45.5
20°-30°	542.6	19.7
30°-40°	123.7	4.5
40°-50°	42.5	1.5
50°-60°	10.4	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2577.7	93.5
0°-40°	2701.4	98.0
0°-60°	2754.2	99.9
0°-90°	2757.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8866	8866	8866	8866	8866	
5°	8578	8570	8568	8586	8579	780
15°	4700	4644	4675	4660	4652	1259
25°	1105	1146	1246	1117	1082	529
35°	185	189	178	176	149	126
45°	49	60	60	60	49	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8865.7	8865.7	8865.7	8865.7	8865.7
2.5°	8806.9	8800.8	8804.2	8808.6	8810.4
5°	8578.4	8570.1	8568.4	8586.2	8578.8
7.5°	8117.4	8105.6	8087.8	8128.3	8166.2
10°	7345.2	7332.2	7293.4	7312.6	7343.5
12.5°	6205.2	6163.1	6162.1	6223.1	6214.9
15°	4700.5	4643.9	4675.3	4660.0	4651.8
17.5°	3161.0	3139.2	3181.0	3168.4	3113.9
20°	2273.9	2279.5	2359.2	2319.1	2270.8
22.5°	1659.3	1679.7	1774.2	1671.0	1633.1
25°	1104.7	1146.5	1245.8	1117.4	1082.1
27.5°	679.5	698.6	799.2	670.8	651.6
30°	422.7	413.1	460.5	395.2	368.2
32.5°	277.3	265.1	280.3	251.6	229.8
35°	185.4	189.4	177.6	176.3	148.9
37.5°	115.8	133.2	117.5	125.4	95.7
40°	74.9	96.7	83.1	91.8	70.5
42.5°	61.4	74.4	68.4	72.7	62.7
45°	48.8	60.5	60.5	60.5	49.2
47.5°	27.0	40.5	51.8	41.4	28.7
50°	15.2	20.5	40.0	21.3	16.1
52.5°	10.4	11.7	27.4	12.2	10.9
55°	7.8	8.3	14.8	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.7	5.2	4.8
62.5°	3.5	3.5	3.9	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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