

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: P745098

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745098
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-EU4DR3020359050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 2494.6 lumens
Efficiency: N/A
Efficacy: 99.4 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



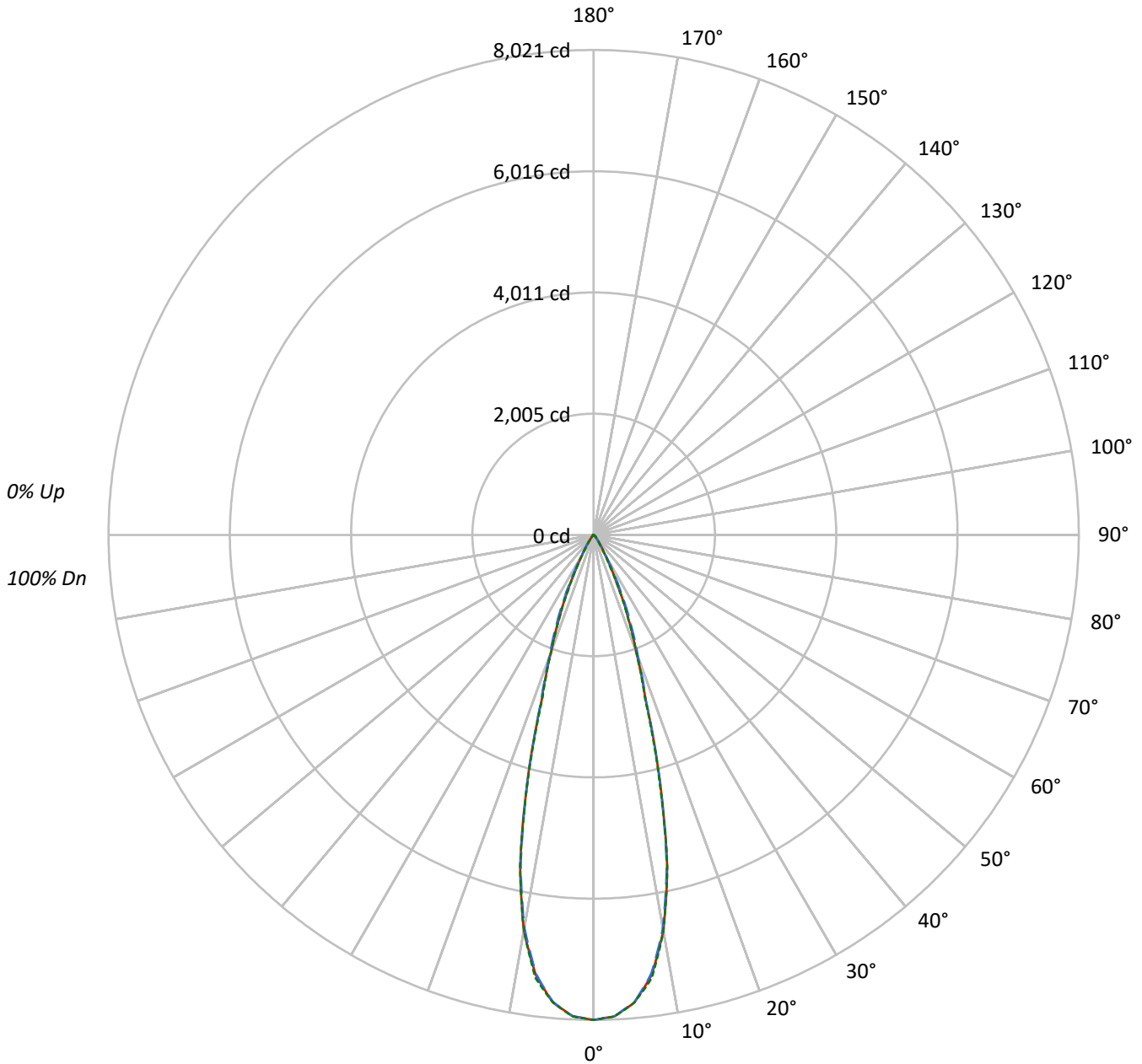
Downlight



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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	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°	613978	613978	613978
5°	596353	595654	596384
10°	516532	512886	516407
15°	337007	335200	333512
20°	167579	173867	167351
25°	84414	95191	82691
30°	33798	36821	29450
35°	15680	15016	12587
40°	6765	7514	6375
45°	4774	5921	4817
50°	1643	4311	1739
55°	947	1788	1001
60°	674	781	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.4	28.3
10°-20°	1136.0	45.5
20°-30°	490.9	19.7
30°-40°	111.9	4.5
40°-50°	38.4	1.5
50°-60°	9.4	0.4
60°-70°	2.4	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°	2332.2	93.5
0°-40°	2444.1	98.0
0°-60°	2491.9	99.9
0°-90°	2494.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2494.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8021	8021	8021	8021	8021	
5°	7761	7754	7752	7768	7762	706
15°	4253	4202	4230	4216	4209	1139
25°	1000	1037	1127	1011	979	478
35°	168	171	161	160	135	114
45°	44	55	55	55	44	31
55°	7	8	13	8	8	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8021.3	8021.3	8021.3	8021.3	8021.3
2.5°	7968.1	7962.6	7965.8	7969.7	7971.3
5°	7761.4	7753.9	7752.3	7768.5	7761.8
7.5°	7344.3	7333.7	7317.6	7354.2	7388.4
10°	6645.7	6633.9	6598.8	6616.1	6644.1
12.5°	5614.3	5576.1	5575.3	5630.4	5622.9
15°	4252.8	4201.7	4230.0	4216.2	4208.7
17.5°	2859.9	2840.2	2878.0	2866.6	2817.4
20°	2057.3	2062.5	2134.5	2098.3	2054.5
22.5°	1501.2	1519.8	1605.2	1511.8	1477.6
25°	999.5	1037.3	1127.1	1010.9	979.1
27.5°	614.8	632.1	723.1	606.9	589.6
30°	382.4	373.7	416.6	357.6	333.2
32.5°	250.8	239.8	253.6	227.6	207.9
35°	167.8	171.3	160.7	159.5	134.7
37.5°	104.7	120.5	106.3	113.4	86.6
40°	67.7	87.4	75.2	83.1	63.8
42.5°	55.5	67.3	61.8	65.8	56.7
45°	44.1	54.7	54.7	54.7	44.5
47.5°	24.4	36.6	46.9	37.4	26.0
50°	13.8	18.5	36.2	19.3	14.6
52.5°	9.5	10.7	24.8	11.0	9.9
55°	7.1	7.5	13.4	7.8	7.5
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.1	4.7	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	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

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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