

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



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: P745047

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745047
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-EU4DR3020359027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2366.2 lumens
Efficiency: N/A
Efficacy: 94.3 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

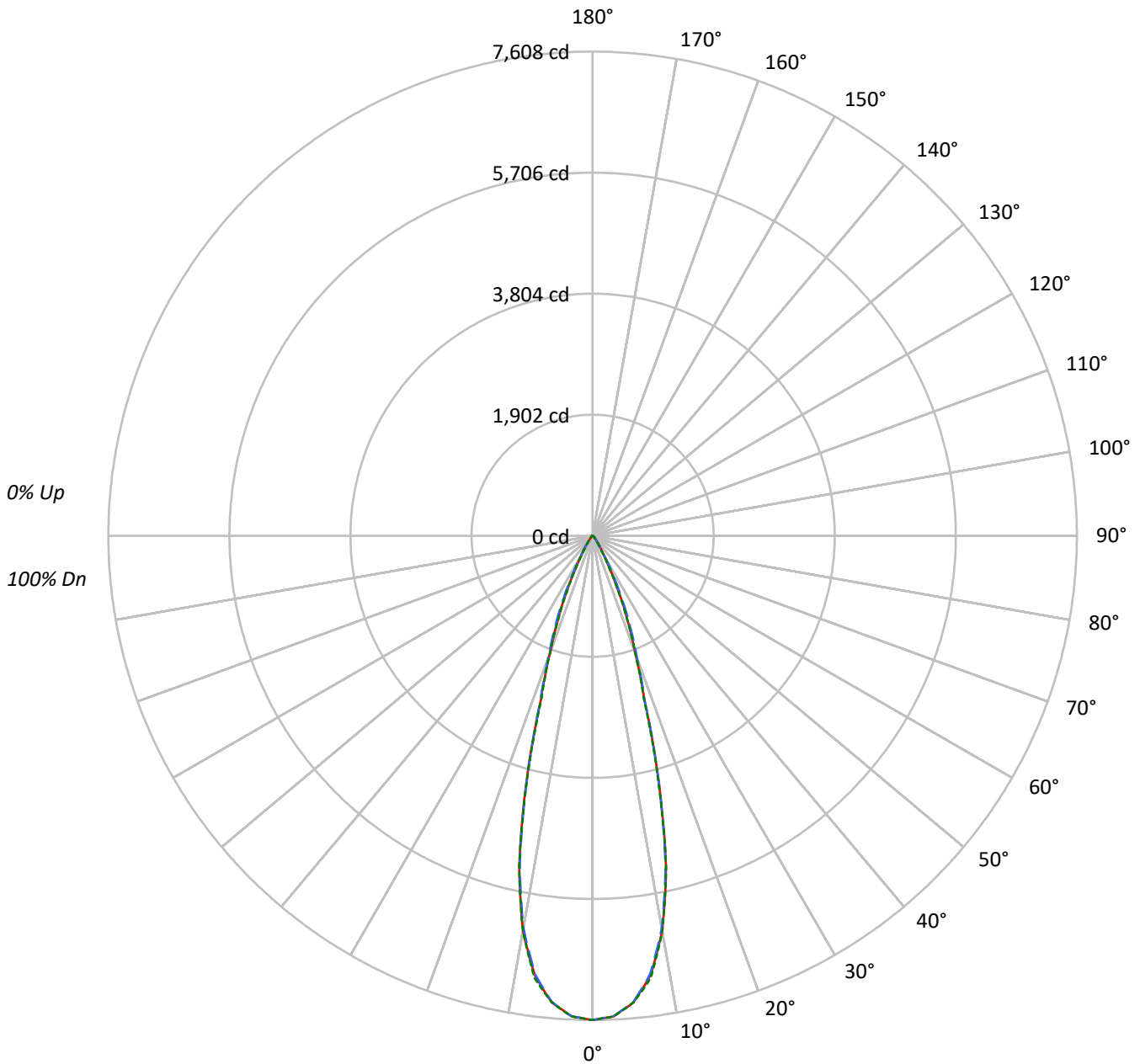


Downlight



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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°	582373	582373	582373
5°	565657	564997	565680
10°	489942	486491	489826
15°	319668	317949	316348
20°	158953	164915	158741
25°	80073	90292	78426
30°	32057	34930	27930
35°	14867	14241	11942
40°	6415	7124	6045
45°	4525	5618	4568
50°	1560	4096	1643
55°	894	1695	947
60°	628	750	628
65°	398	398	398
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: 5618 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.0	28.3
10°-20°	1077.5	45.5
20°-30°	465.6	19.7
30°-40°	106.1	4.5
40°-50°	36.4	1.5
50°-60°	8.9	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°	2212.2	93.5
0°-40°	2318.3	98.0
0°-60°	2363.6	99.9
0°-90°	2366.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7608	7608	7608	7608	7608	
5°	7362	7355	7353	7369	7362	670
15°	4034	3985	4012	3999	3992	1080
25°	948	984	1069	959	929	454
35°	159	162	152	151	128	108
45°	42	52	52	52	42	30
55°	7	7	13	7	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°	7608.4	7608.4	7608.4	7608.4	7608.4
2.5°	7558.0	7552.8	7555.8	7559.5	7561.0
5°	7361.9	7354.8	7353.3	7368.6	7362.2
7.5°	6966.3	6956.2	6940.9	6975.6	7008.2
10°	6303.6	6292.4	6259.2	6275.6	6302.1
12.5°	5325.3	5289.1	5288.3	5340.6	5333.5
15°	4034.0	3985.4	4012.3	3999.2	3992.1
17.5°	2712.7	2694.0	2729.9	2719.1	2672.4
20°	1951.4	1956.3	2024.6	1990.3	1948.8
22.5°	1424.0	1441.5	1522.6	1434.0	1401.6
25°	948.1	983.9	1069.1	958.9	928.6
27.5°	583.1	599.5	685.8	575.6	559.2
30°	362.7	354.5	395.2	339.2	316.0
32.5°	237.9	227.5	240.6	215.9	197.2
35°	159.1	162.5	152.4	151.3	127.8
37.5°	99.3	114.3	100.8	107.6	82.2
40°	64.2	82.9	71.3	78.8	60.5
42.5°	52.7	63.9	58.7	62.4	53.8
45°	41.8	51.9	51.9	51.9	42.2
47.5°	23.1	34.7	44.5	35.5	24.6
50°	13.1	17.5	34.4	18.3	13.8
52.5°	8.9	10.1	23.5	10.5	9.3
55°	6.7	7.1	12.7	7.4	7.1
57.5°	5.2	5.6	6.7	5.6	5.2
60°	4.1	4.1	4.9	4.5	4.1
62.5°	3.0	3.0	3.4	3.0	3.0
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	0.4	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

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Scaled Data Report





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

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