

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: P745096

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745096
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-EU4DR3020359050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.4 lumens
Efficiency: N/A
Efficacy: 90.8 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



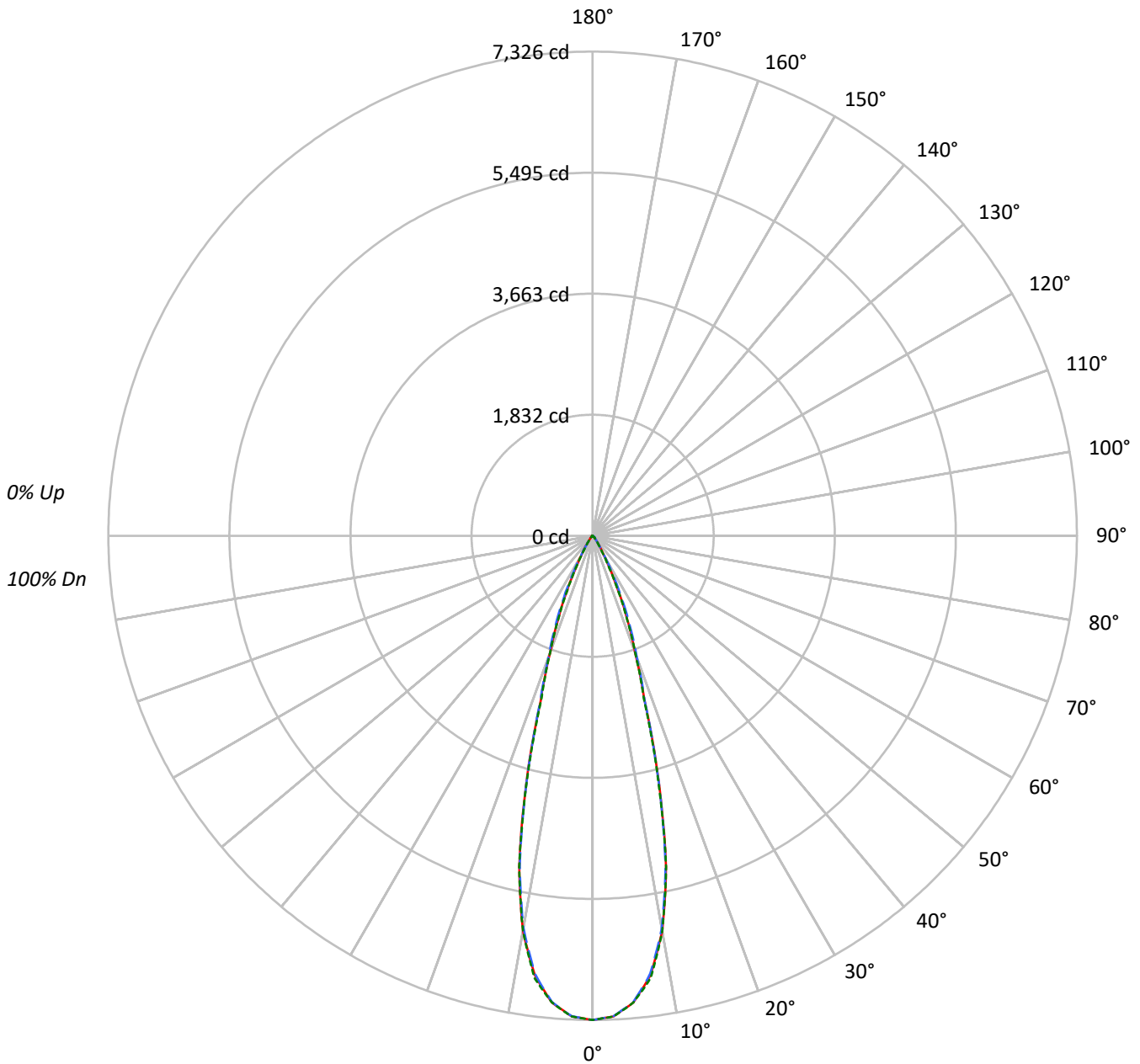
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	560765	560765	560765
5°	544666	544028	544697
10°	471763	468436	471654
15°	307806	306150	304612
20°	153055	158798	152852
25°	77100	86939	75521
30°	30873	33639	26895
35°	14315	13708	11493
40°	6185	6865	5825
45°	4362	5412	4395
50°	1500	3942	1584
55°	867	1628	907
60°	612	720	612
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: 5412 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.2	28.3
10°-20°	1037.5	45.5
20°-30°	448.3	19.7
30°-40°	102.2	4.5
40°-50°	35.1	1.5
50°-60°	8.6	0.4
60°-70°	2.2	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°	2130.1	93.5
0°-40°	2232.3	98.0
0°-60°	2275.9	99.9
0°-90°	2278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7326	7326	7326	7326	7326	
5°	7089	7082	7080	7095	7089	645
15°	3884	3838	3863	3851	3844	1040
25°	913	947	1029	923	894	437
35°	153	156	147	146	123	104
45°	40	50	50	50	41	29
55°	6	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7326.1	7326.1	7326.1	7326.1	7326.1
2.5°	7277.5	7272.5	7275.4	7279.0	7280.4
5°	7088.7	7081.8	7080.4	7095.2	7089.1
7.5°	6707.8	6698.1	6683.4	6716.8	6748.1
10°	6069.7	6058.9	6026.9	6042.7	6068.3
12.5°	5127.7	5092.8	5092.1	5142.5	5135.6
15°	3884.3	3837.5	3863.4	3850.8	3844.0
17.5°	2612.0	2594.0	2628.6	2618.2	2573.2
20°	1879.0	1883.7	1949.5	1916.4	1876.5
22.5°	1371.1	1388.0	1466.1	1380.8	1349.5
25°	912.9	947.4	1029.4	923.3	894.2
27.5°	561.5	577.3	660.4	554.3	538.5
30°	349.3	341.4	380.6	326.6	304.3
32.5°	229.1	219.0	231.6	207.9	189.9
35°	153.2	156.5	146.7	145.7	123.0
37.5°	95.7	110.1	97.1	103.6	79.1
40°	61.9	79.9	68.7	75.9	58.3
42.5°	50.7	61.5	56.5	60.0	51.8
45°	40.3	50.0	50.0	50.0	40.6
47.5°	22.3	33.5	42.8	34.1	23.7
50°	12.6	16.9	33.1	17.6	13.3
52.5°	8.7	9.7	22.7	10.1	9.0
55°	6.5	6.8	12.2	7.2	6.8
57.5°	5.0	5.4	6.5	5.4	5.0
60°	4.0	4.0	4.7	4.3	4.0
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	1.4	1.4	1.4	1.4
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

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

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