

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: P745072

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745072
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-EU4DR3020359035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.4 lumens
Efficiency: N/A
Efficacy: 97.9 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

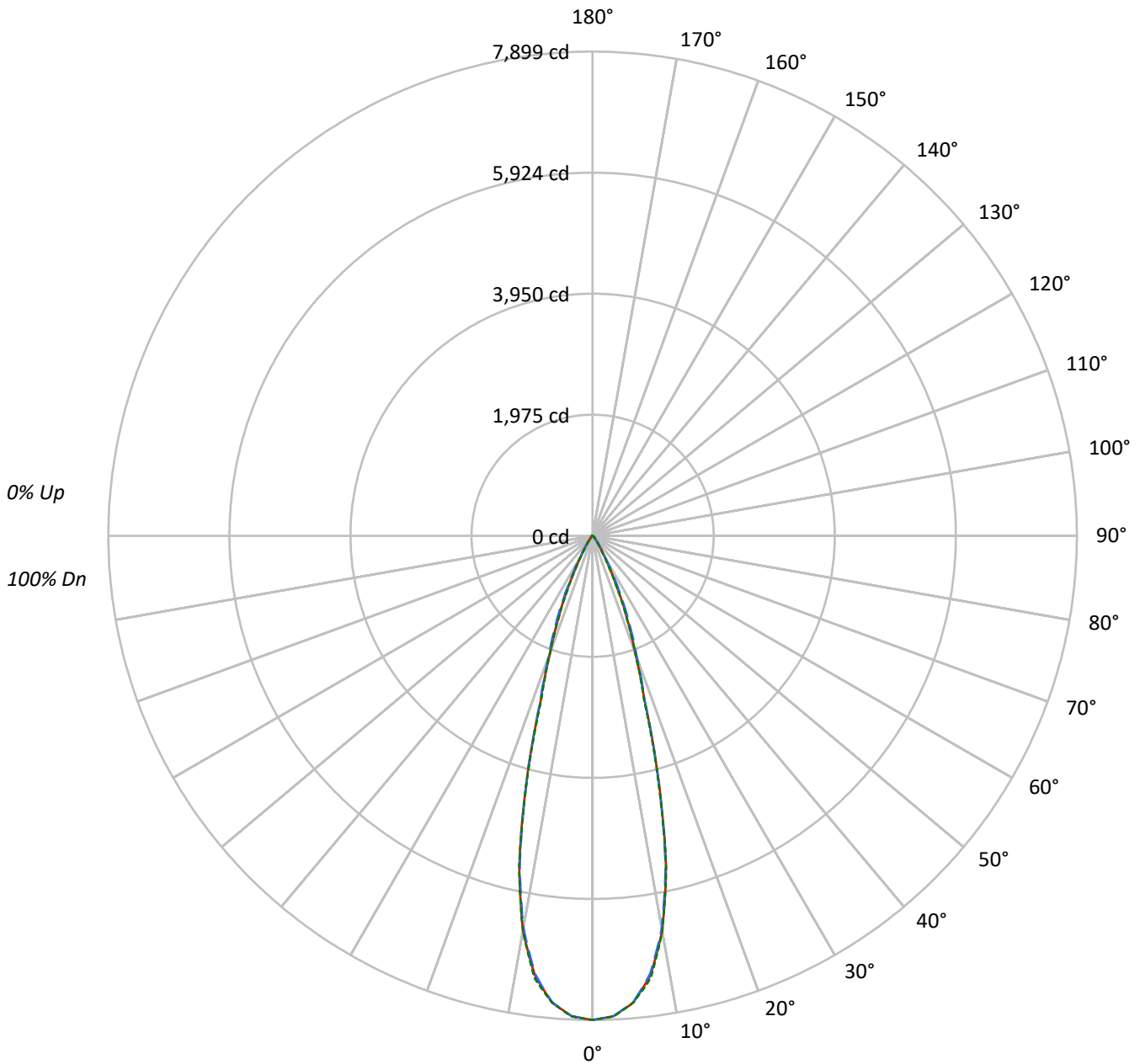


Downlight



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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					70					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°	604586	604586	604586
5°	587225	586549	587256
10°	508635	505044	508511
15°	331856	330073	328417
20°	165013	171212	164793
25°	83122	93738	81416
30°	33277	36264	28999
35°	15437	14783	12390
40°	6665	7404	6275
45°	4698	5835	4741
50°	1619	4251	1703
55°	934	1762	988
60°	643	765	643
65°	417	417	417
70°	246	179	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: 5835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.6	28.3
10°-20°	1118.6	45.5
20°-30°	483.4	19.7
30°-40°	110.2	4.5
40°-50°	37.8	1.5
50°-60°	9.2	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°	2296.5	93.5
0°-40°	2406.7	98.0
0°-60°	2453.8	99.9
0°-90°	2456.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7899	7899	7899	7899	7899	
5°	7643	7635	7634	7650	7643	695
15°	4188	4137	4165	4152	4144	1121
25°	984	1022	1110	995	964	471
35°	165	169	158	157	133	112
45°	43	54	54	54	44	31
55°	7	7	13	8	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°	7898.6	7898.6	7898.6	7898.6	7898.6
2.5°	7846.3	7840.8	7843.9	7847.8	7849.4
5°	7642.6	7635.3	7633.8	7649.6	7643.0
7.5°	7232.0	7221.5	7205.6	7241.7	7275.4
10°	6544.1	6532.4	6497.9	6515.0	6542.5
12.5°	5528.4	5490.8	5490.0	5544.3	5536.9
15°	4187.8	4137.4	4165.3	4151.7	4144.4
17.5°	2816.2	2796.8	2834.0	2822.8	2774.3
20°	2025.8	2030.9	2101.9	2066.2	2023.1
22.5°	1478.3	1496.5	1580.7	1488.8	1455.0
25°	984.2	1021.5	1109.9	995.4	964.0
27.5°	605.3	622.4	712.0	597.6	580.5
30°	376.5	368.0	410.3	352.1	328.1
32.5°	247.0	236.2	249.7	224.1	204.8
35°	165.2	168.7	158.2	157.0	132.6
37.5°	103.1	118.7	104.7	111.7	85.3
40°	66.7	86.1	74.1	81.8	62.8
42.5°	54.7	66.3	60.9	64.7	55.9
45°	43.4	53.9	53.9	53.9	43.8
47.5°	24.1	36.0	46.1	36.8	25.6
50°	13.6	18.2	35.7	19.0	14.3
52.5°	9.3	10.5	24.4	10.9	9.7
55°	7.0	7.4	13.2	7.7	7.4
57.5°	5.4	5.8	7.0	5.8	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
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

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Scaled Data Report





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

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