

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: P746007

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746007
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: LD4D30D010-EU4DR3020359035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2222.8 lumens
Efficiency: N/A
Efficacy: 76.6 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): 29
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



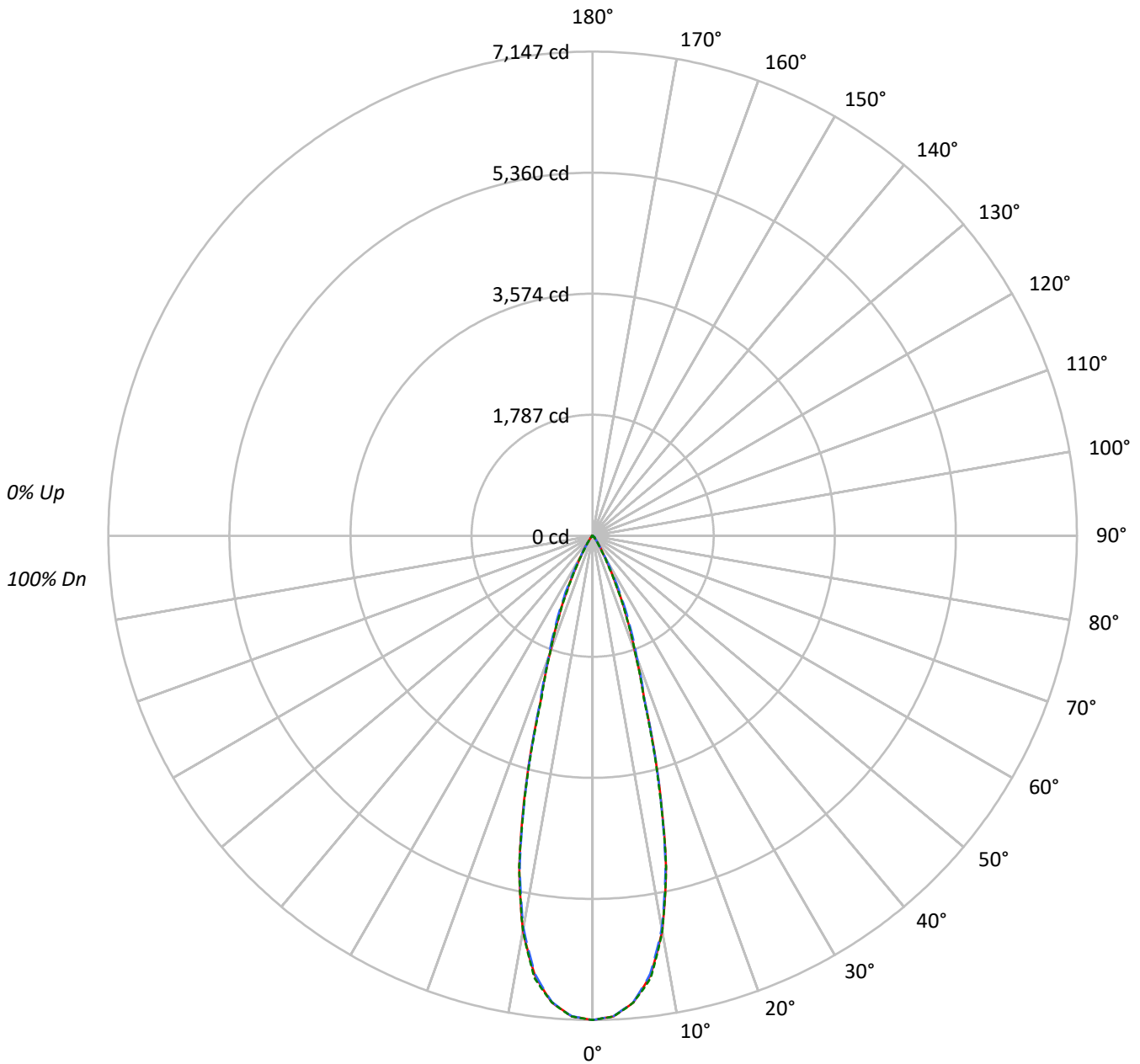
Downlight



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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°	547086	547086	547086
5°	531381	530759	531404
10°	460259	457011	460143
15°	300293	298685	297179
20°	149325	154929	149121
25°	75217	84819	73680
30°	30113	32817	26233
35°	13970	13381	11213
40°	6025	6695	5675
45°	4254	5283	4287
50°	1465	3846	1548
55°	841	1588	881
60°	582	704	582
65°	380	380	380
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.5	28.3
10°-20°	1012.2	45.5
20°-30°	437.4	19.7
30°-40°	99.7	4.5
40°-50°	34.2	1.5
50°-60°	8.4	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°	2078.1	93.5
0°-40°	2177.8	98.0
0°-60°	2220.4	99.9
0°-90°	2222.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2222.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7147	7147	7147	7147	7147	
5°	6916	6909	6908	6922	6916	629
15°	3790	3744	3769	3757	3750	1015
25°	891	924	1004	901	872	426
35°	150	153	143	142	120	101
45°	39	49	49	49	40	28
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°	7147.4	7147.4	7147.4	7147.4	7147.4
2.5°	7100.0	7095.1	7097.9	7101.4	7102.8
5°	6915.8	6909.2	6907.7	6922.1	6916.1
7.5°	6544.2	6534.7	6520.3	6553.0	6583.5
10°	5921.7	5911.1	5879.9	5895.3	5920.2
12.5°	5002.6	4968.6	4967.9	5017.0	5010.3
15°	3789.5	3743.9	3769.2	3756.9	3750.2
17.5°	2548.3	2530.8	2564.5	2554.3	2510.4
20°	1833.2	1837.7	1902.0	1869.7	1830.7
22.5°	1337.7	1354.2	1430.3	1347.2	1316.6
25°	890.6	924.3	1004.3	900.8	872.4
27.5°	547.8	563.2	644.3	540.8	525.3
30°	340.7	333.0	371.3	318.6	296.8
32.5°	223.5	213.7	226.0	202.8	185.3
35°	149.5	152.6	143.2	142.1	120.0
37.5°	93.3	107.4	94.8	101.1	77.2
40°	60.3	77.9	67.0	74.0	56.8
42.5°	49.5	60.0	55.1	58.6	50.5
45°	39.3	48.8	48.8	48.8	39.6
47.5°	21.8	32.7	41.8	33.3	23.1
50°	12.3	16.5	32.3	17.2	13.0
52.5°	8.4	9.5	22.1	9.8	8.8
55°	6.3	6.6	11.9	7.0	6.6
57.5°	4.9	5.3	6.3	5.3	4.9
60°	3.8	3.8	4.6	4.2	3.8
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
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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Scaled Data Report





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

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