

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: P742907

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR1515309030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1313.6 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 15.8
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



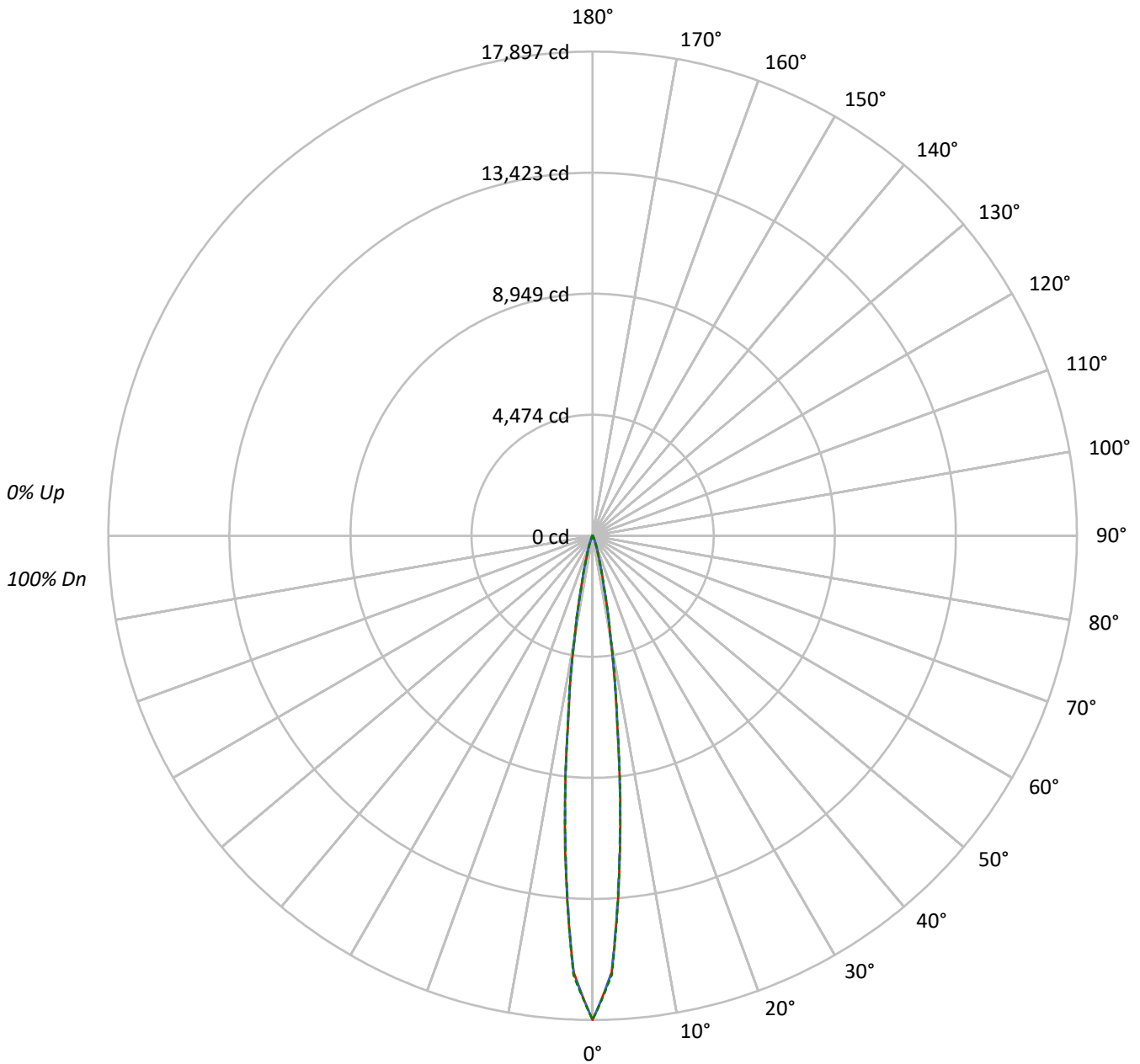
Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98														
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96														
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94														
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93														
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92														
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90														
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89														
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88														
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87														
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013815	2013815	2013815
5°	1183418	1168092	1177330
10°	353197	355670	361110
15°	87856	89567	86805
20°	26281	30438	26846
25°	9270	11802	9387
30°	3407	4485	3460
35°	1707	1924	1648
40°	1079	1186	1079
45°	798	847	798
50°	633	633	633
55°	529	529	529
60°	428	428	428
65°	321	321	321
70°	278	278	278
75°	174	174	227
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.0	64.9
10°-20°	350.4	26.7
20°-30°	69.6	5.3
30°-40°	17.4	1.3
40°-50°	9.1	0.7
50°-60°	6.8	0.5
60°-70°	4.8	0.4
70°-80°	2.7	0.2
80°-90°	0.8	0.1
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°	1272.0	96.8
0°-40°	1289.4	98.2
0°-60°	1305.3	99.4
0°-90°	1313.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17897	17897	17897	17897	17897	
5°	11644	11525	11494	11573	11585	850
15°	1012	1030	1031	1013	999	347
25°	119	135	152	134	120	62
35°	24	25	26	25	23	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17897.4	17897.4	17897.4	17897.4	17897.4
2.5°	16144.2	16157.8	16163.1	16179.0	16238.1
5°	11644.5	11524.8	11493.7	11573.2	11584.6
7.5°	6897.7	6922.0	7010.6	7030.3	6959.1
10°	3785.3	3816.3	3811.8	3839.1	3870.1
12.5°	1935.8	1911.6	1904.0	1935.1	1891.9
15°	1011.5	1030.4	1031.2	1013.0	999.4
17.5°	544.0	566.0	602.3	572.8	527.3
20°	321.2	340.9	372.0	347.8	328.1
22.5°	198.5	214.4	236.4	217.4	201.5
25°	119.0	134.9	151.5	134.1	120.5
27.5°	70.5	84.1	94.7	83.3	69.7
30°	45.5	53.0	59.9	52.3	46.2
32.5°	31.8	34.9	37.9	34.9	31.8
35°	23.5	25.0	26.5	25.0	22.7
37.5°	18.2	19.7	20.5	18.9	17.4
40°	15.2	15.9	16.7	15.9	15.2
42.5°	12.9	13.6	13.6	13.6	12.9
45°	11.4	11.4	12.1	11.4	11.4
47.5°	9.8	9.8	10.6	9.8	9.8
50°	9.1	9.1	9.1	9.1	9.1
52.5°	8.3	8.3	8.3	8.3	8.3
55°	7.6	7.6	7.6	7.6	7.6
57.5°	6.8	6.8	6.8	6.8	6.8
60°	6.1	6.1	6.1	6.1	6.1
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.3	2.3	2.3	2.3	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8
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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