

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: P742113

Luminaire Tested: LD4D10D010-EU4DR300210IC9027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742113
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: LD4D10D010-EU4DR300210IC9027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 760.9 lumens
Efficiency: N/A
Efficacy: 65.0 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): 11.7
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



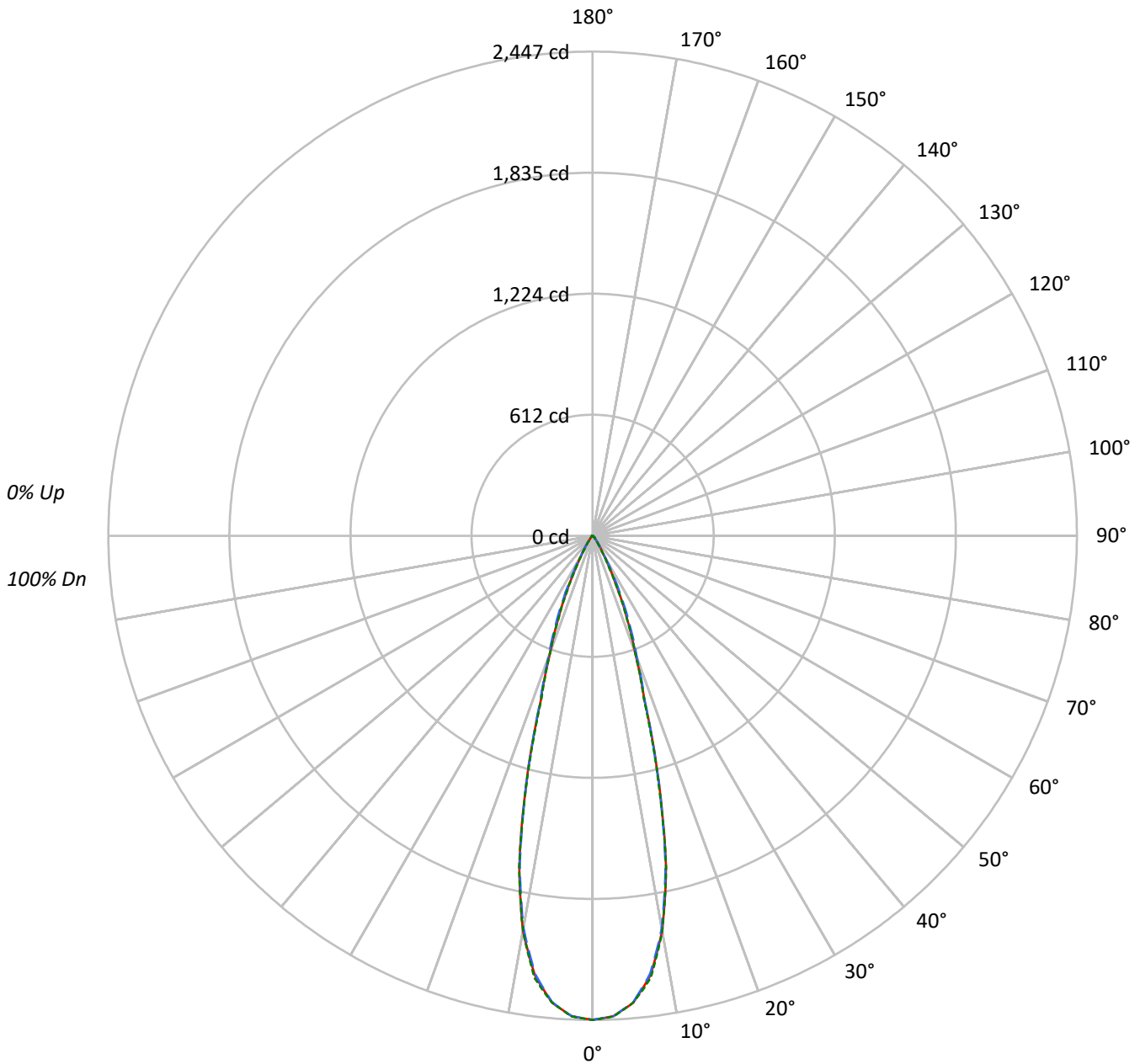
Downlight



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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°	187279	187279	187279
5°	181901	181694	181909
10°	157563	156443	157516
15°	102795	102248	101733
20°	51122	53036	51048
25°	25751	29036	25219
30°	10314	11234	8980
35°	4784	4579	3840
40°	2068	2288	1948
45°	1461	1808	1472
50°	500	1322	536
55°	294	547	307
60°	199	230	199
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	28.3
10°-20°	346.5	45.5
20°-30°	149.7	19.7
30°-40°	34.1	4.5
40°-50°	11.7	1.5
50°-60°	2.9	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	711.4	93.5
0°-40°	745.5	98.0
0°-60°	760.1	99.9
0°-90°	760.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2447	2447	2447	2447	2447	
5°	2367	2365	2365	2370	2368	215
15°	1297	1282	1290	1286	1284	347
25°	305	316	344	308	299	146
35°	51	52	49	49	41	35
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
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°	2446.7	2446.7	2446.7	2446.7	2446.7
2.5°	2430.5	2428.9	2429.8	2431.0	2431.5
5°	2367.4	2365.1	2364.7	2369.6	2367.5
7.5°	2240.2	2237.0	2232.0	2243.2	2253.7
10°	2027.2	2023.5	2012.8	2018.1	2026.6
12.5°	1712.5	1700.9	1700.6	1717.4	1715.2
15°	1297.2	1281.6	1290.3	1286.0	1283.8
17.5°	872.4	866.4	877.9	874.4	859.4
20°	627.6	629.1	651.1	640.0	626.7
22.5°	457.9	463.6	489.6	461.2	450.7
25°	304.9	316.4	343.8	308.4	298.6
27.5°	187.5	192.8	220.5	185.1	179.8
30°	116.7	114.0	127.1	109.1	101.6
32.5°	76.5	73.2	77.3	69.4	63.4
35°	51.2	52.3	49.0	48.6	41.1
37.5°	32.0	36.8	32.4	34.6	26.4
40°	20.7	26.6	22.9	25.3	19.5
42.5°	17.0	20.6	18.9	20.1	17.3
45°	13.5	16.7	16.7	16.7	13.6
47.5°	7.4	11.2	14.3	11.4	7.9
50°	4.2	5.7	11.1	5.9	4.5
52.5°	2.9	3.3	7.6	3.4	3.0
55°	2.2	2.3	4.1	2.4	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.3	1.3	1.5	1.4	1.3
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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

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

Scaled Data Report



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Scaled Data Report





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

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