

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: P743147

Luminaire Tested: LD4D15D010-EU4DR300215IC9035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743147
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: LD4D15D010-EU4DR300215IC9035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1234.9 lumens
Efficiency: N/A
Efficacy: 78.2 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): 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

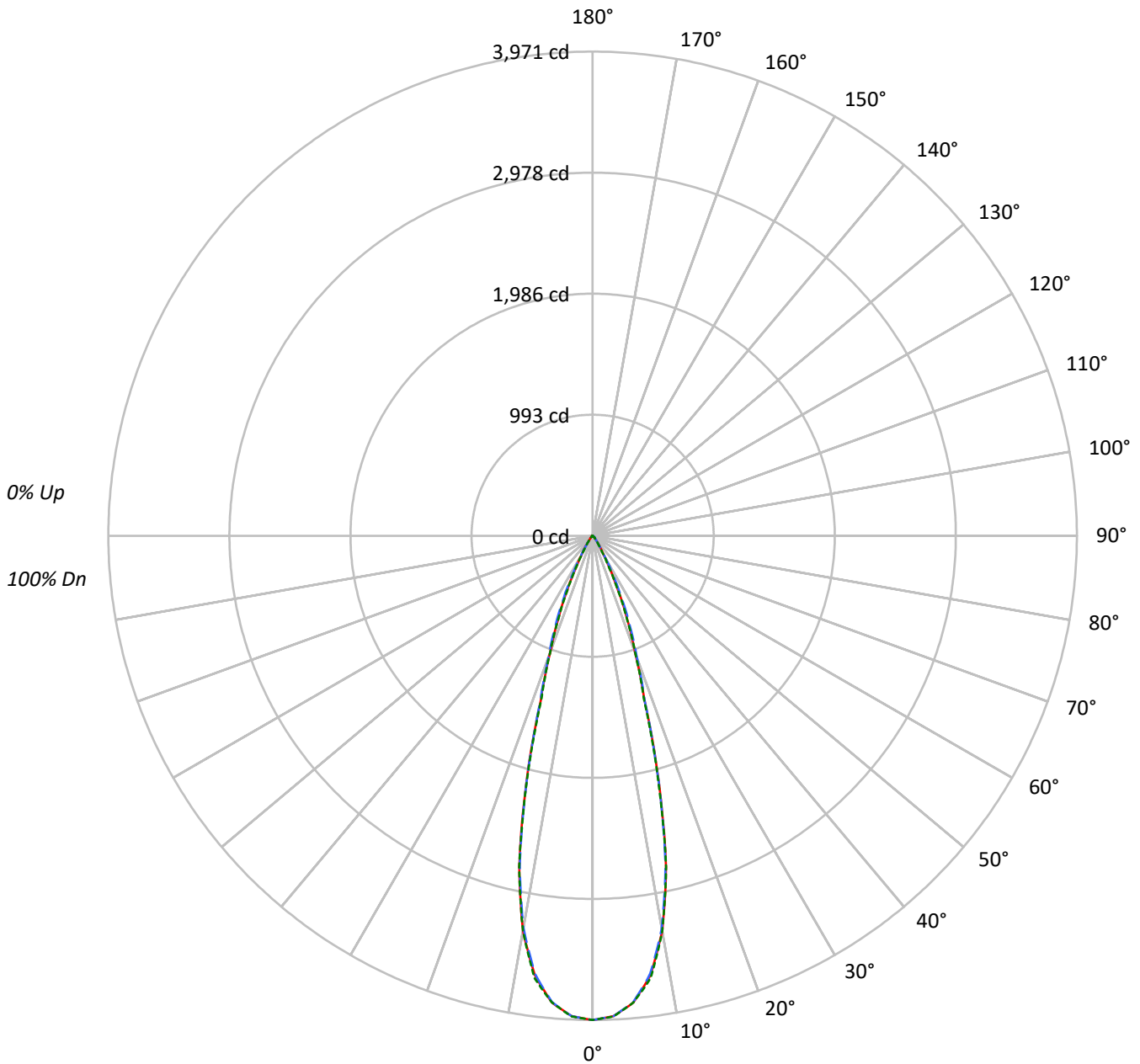


Downlight



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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																			
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	87	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°	303946	303946	303946
5°	295218	294873	295234
10°	255705	253902	255643
15°	166839	165936	165104
20°	82963	86074	82849
25°	41789	47118	40936
30°	16731	18234	14583
35°	7765	7429	6233
40°	3347	3717	3157
45°	2360	2934	2392
50°	810	2132	857
55°	467	881	494
60°	321	383	321
65°	199	199	199
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.2	28.3
10°-20°	562.4	45.5
20°-30°	243.0	19.7
30°-40°	55.4	4.5
40°-50°	19.0	1.5
50°-60°	4.6	0.4
60°-70°	1.2	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°	1154.5	93.5
0°-40°	1209.9	98.0
0°-60°	1233.6	99.9
0°-90°	1234.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3971	3971	3971	3971	3971	
5°	3842	3838	3838	3846	3842	349
15°	2105	2080	2094	2087	2084	564
25°	495	514	558	500	485	237
35°	83	85	80	79	67	56
45°	22	27	27	27	22	15
55°	4	4	7	4	4	3
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°	3970.9	3970.9	3970.9	3970.9	3970.9
2.5°	3944.5	3941.8	3943.4	3945.3	3946.1
5°	3842.2	3838.5	3837.7	3845.7	3842.4
7.5°	3635.8	3630.5	3622.5	3640.6	3657.6
10°	3289.9	3284.0	3266.7	3275.3	3289.1
12.5°	2779.3	2760.4	2760.0	2787.3	2783.6
15°	2105.4	2080.0	2094.0	2087.2	2083.5
17.5°	1415.8	1406.0	1424.8	1419.1	1394.7
20°	1018.5	1021.0	1056.7	1038.7	1017.1
22.5°	743.2	752.3	794.6	748.4	731.5
25°	494.8	513.5	557.9	500.5	484.7
27.5°	304.4	312.9	357.9	300.5	291.9
30°	189.3	185.0	206.3	177.0	165.0
32.5°	124.2	118.7	125.5	112.7	103.0
35°	83.1	84.8	79.5	79.0	66.7
37.5°	51.9	59.6	52.7	56.1	42.9
40°	33.5	43.3	37.2	41.1	31.6
42.5°	27.5	33.3	30.6	32.5	28.1
45°	21.8	27.1	27.1	27.1	22.1
47.5°	12.1	18.1	23.2	18.5	12.9
50°	6.8	9.2	17.9	9.6	7.2
52.5°	4.7	5.3	12.3	5.4	4.9
55°	3.5	3.7	6.6	3.9	3.7
57.5°	2.8	2.9	3.5	2.9	2.8
60°	2.1	2.1	2.5	2.3	2.1
62.5°	1.5	1.5	1.8	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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