

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: P754614

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754614
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: LD4D85BD010-EU4DR3070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8428.7 lumens
Efficiency: N/A
Efficacy: 96.1 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): 87.7
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

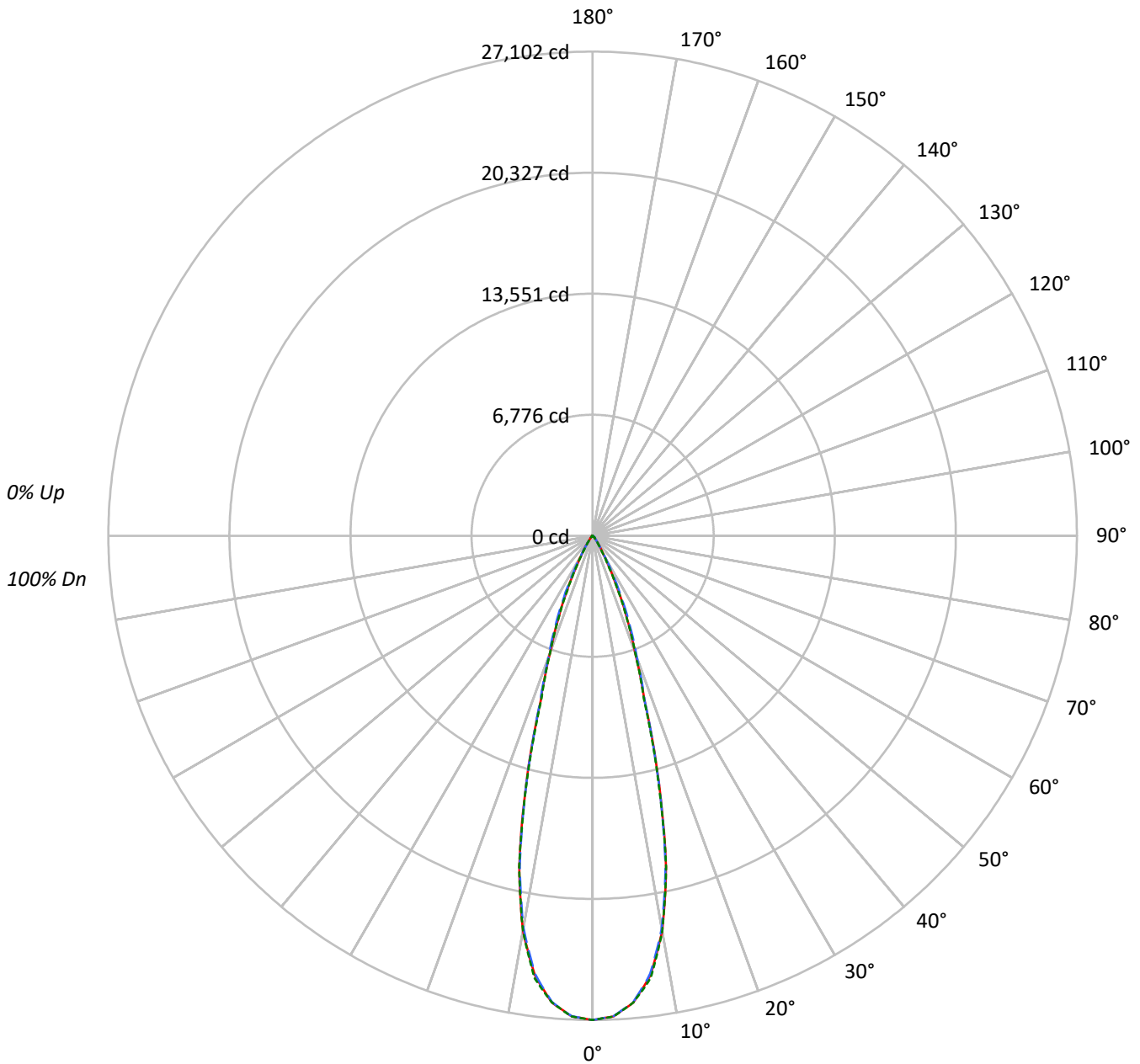


Downlight

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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	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°	2074502	2074502	2074502
5°	2014949	2012598	2015049
10°	1745250	1732947	1744838
15°	1138690	1132573	1126883
20°	566215	587459	565458
25°	285217	321635	279381
30°	114193	124428	99495
35°	52963	50730	42526
40°	22872	25400	21543
45°	16129	20026	16281
50°	5549	14575	5859
55°	3203	6032	3376
60°	2235	2648	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2383.2	28.3
10°-20°	3838.2	45.5
20°-30°	1658.6	19.7
30°-40°	378.0	4.5
40°-50°	129.8	1.5
50°-60°	31.7	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7880.1	93.5
0°-40°	8258.1	98.0
0°-60°	8419.6	99.9
0°-90°	8428.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8428.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27102	27102	27102	27102	27102	
5°	26224	26199	26194	26248	26225	2385
15°	14370	14196	14292	14246	14220	3848
25°	3377	3505	3808	3416	3308	1617
35°	567	579	543	539	455	384
45°	149	185	185	185	150	106
55°	24	25	45	27	25	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
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°	27102.3	27102.3	27102.3	27102.3	27102.3
2.5°	26922.7	26904.0	26914.7	26928.0	26933.3
5°	26224.1	26198.8	26193.5	26248.0	26225.4
7.5°	24815.0	24779.0	24724.5	24848.2	24964.0
10°	22454.4	22414.5	22296.1	22354.6	22449.1
12.5°	18969.5	18840.4	18837.8	19024.0	18998.8
15°	14369.5	14196.5	14292.3	14245.7	14220.5
17.5°	9663.0	9596.5	9724.3	9685.7	9519.3
20°	6951.2	6968.5	7212.0	7089.6	6941.9
22.5°	5072.4	5134.9	5423.7	5108.3	4992.5
25°	3377.1	3504.9	3808.3	3415.7	3308.0
27.5°	2077.1	2135.7	2443.0	2050.5	1992.0
30°	1292.0	1262.8	1407.8	1208.2	1125.7
32.5°	847.6	810.4	856.9	769.1	702.6
35°	566.8	578.8	542.9	538.9	455.1
37.5°	353.9	407.2	359.3	383.2	292.7
40°	228.9	295.4	254.2	280.8	215.6
42.5°	187.6	227.5	208.9	222.2	191.6
45°	149.0	185.0	185.0	185.0	150.4
47.5°	82.5	123.7	158.3	126.4	87.8
50°	46.6	62.5	122.4	65.2	49.2
52.5°	31.9	35.9	83.8	37.3	33.3
55°	24.0	25.3	45.2	26.6	25.3
57.5°	18.6	20.0	24.0	20.0	18.6
60°	14.6	14.6	17.3	16.0	14.6
62.5°	10.6	10.6	12.0	10.6	10.6
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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

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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