

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: P754576

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754576
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-EU4DR3070959030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8307.4 lumens
Efficiency: N/A
Efficacy: 94.7 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

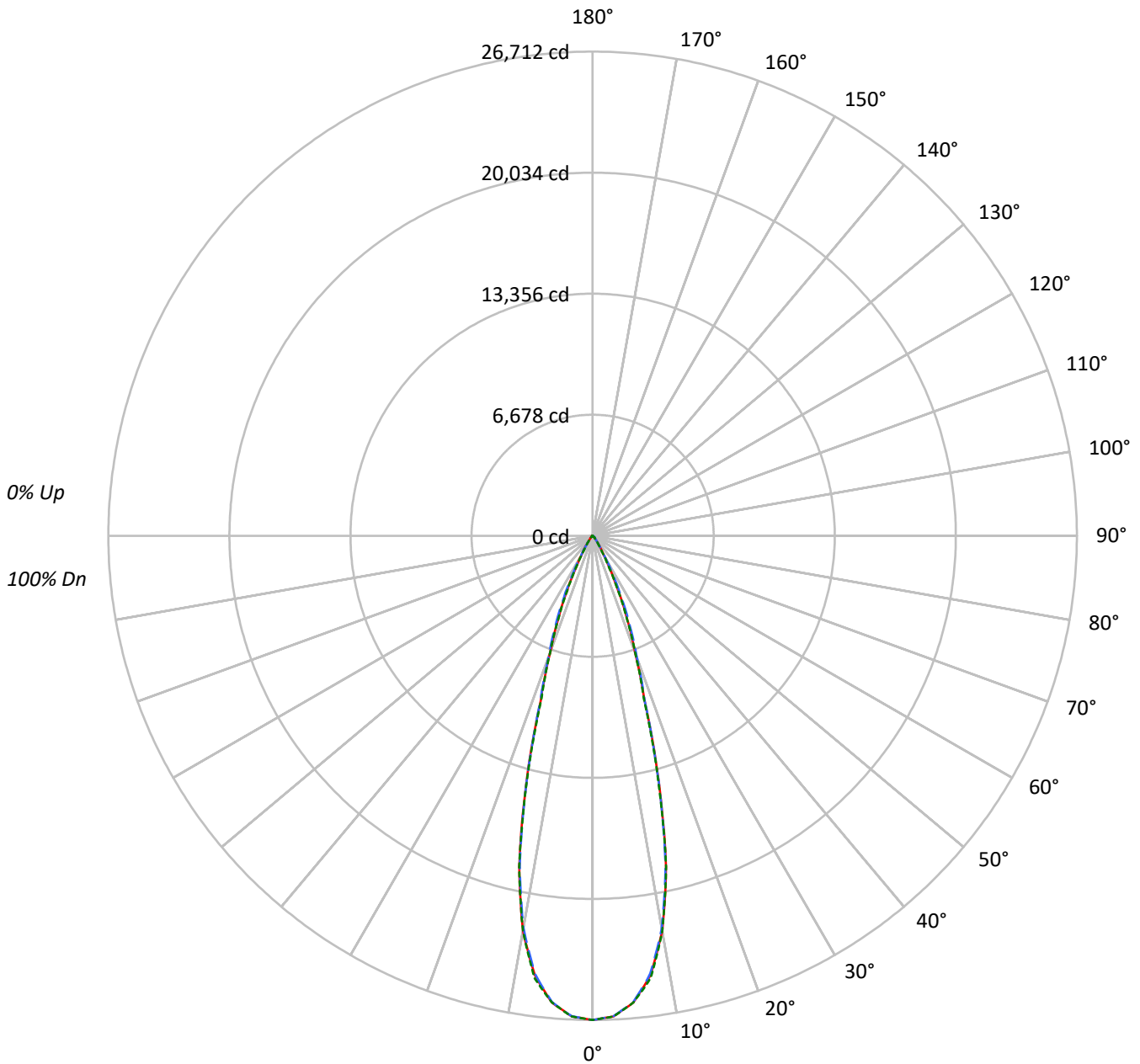


Downlight

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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	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°	2044643	2044643	2044643
5°	1985951	1983631	1986051
10°	1720130	1708005	1719726
15°	1122303	1116272	1110662
20°	558070	579004	557320
25°	281113	317007	275353
30°	112549	122634	98063
35°	52206	50001	41909
40°	22542	25030	21233
45°	15902	19734	16042
50°	5466	14373	5775
55°	3149	5952	3323
60°	2204	2602	2204
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19734 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2348.9	28.3
10°-20°	3783.0	45.5
20°-30°	1634.7	19.7
30°-40°	372.6	4.5
40°-50°	127.9	1.5
50°-60°	31.2	0.4
60°-70°	8.1	0.1
70°-80°	0.8	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°	7766.6	93.5
0°-40°	8139.2	98.0
0°-60°	8298.4	99.9
0°-90°	8307.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8307.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26712	26712	26712	26712	26712	
5°	25847	25822	25816	25870	25848	2351
15°	14163	13992	14087	14041	14016	3792
25°	3328	3454	3754	3367	3260	1593
35°	559	570	535	531	448	379
45°	147	182	182	182	148	104
55°	24	25	45	26	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°	26712.2	26712.2	26712.2	26712.2	26712.2
2.5°	26535.2	26516.8	26527.3	26540.4	26545.7
5°	25846.7	25821.7	25816.5	25870.3	25848.0
7.5°	24457.8	24422.4	24368.6	24490.6	24604.7
10°	22131.2	22091.9	21975.2	22032.9	22126.0
12.5°	18696.5	18569.2	18566.6	18750.2	18725.3
15°	14162.7	13992.2	14086.6	14040.7	14015.8
17.5°	9524.0	9458.4	9584.3	9546.3	9382.3
20°	6851.2	6868.2	7108.2	6987.6	6842.0
22.5°	4999.4	5061.0	5345.6	5034.8	4920.7
25°	3328.5	3454.4	3753.5	3366.6	3260.3
27.5°	2047.2	2104.9	2407.9	2021.0	1963.3
30°	1273.4	1244.6	1387.5	1190.8	1109.5
32.5°	835.4	798.7	844.6	758.0	692.5
35°	558.7	570.5	535.1	531.1	448.5
37.5°	348.9	401.3	354.1	377.7	288.5
40°	225.6	291.1	250.5	276.7	212.5
42.5°	184.9	224.3	205.9	219.0	188.9
45°	146.9	182.3	182.3	182.3	148.2
47.5°	81.3	122.0	156.1	124.6	86.6
50°	45.9	61.6	120.7	64.3	48.5
52.5°	31.5	35.4	82.6	36.7	32.8
55°	23.6	24.9	44.6	26.2	24.9
57.5°	18.4	19.7	23.6	19.7	18.4
60°	14.4	14.4	17.0	15.7	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	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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