

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: P754575

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754575
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-EU4DR3070959030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 7911.8 lumens
Efficiency: N/A
Efficacy: 90.2 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): 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

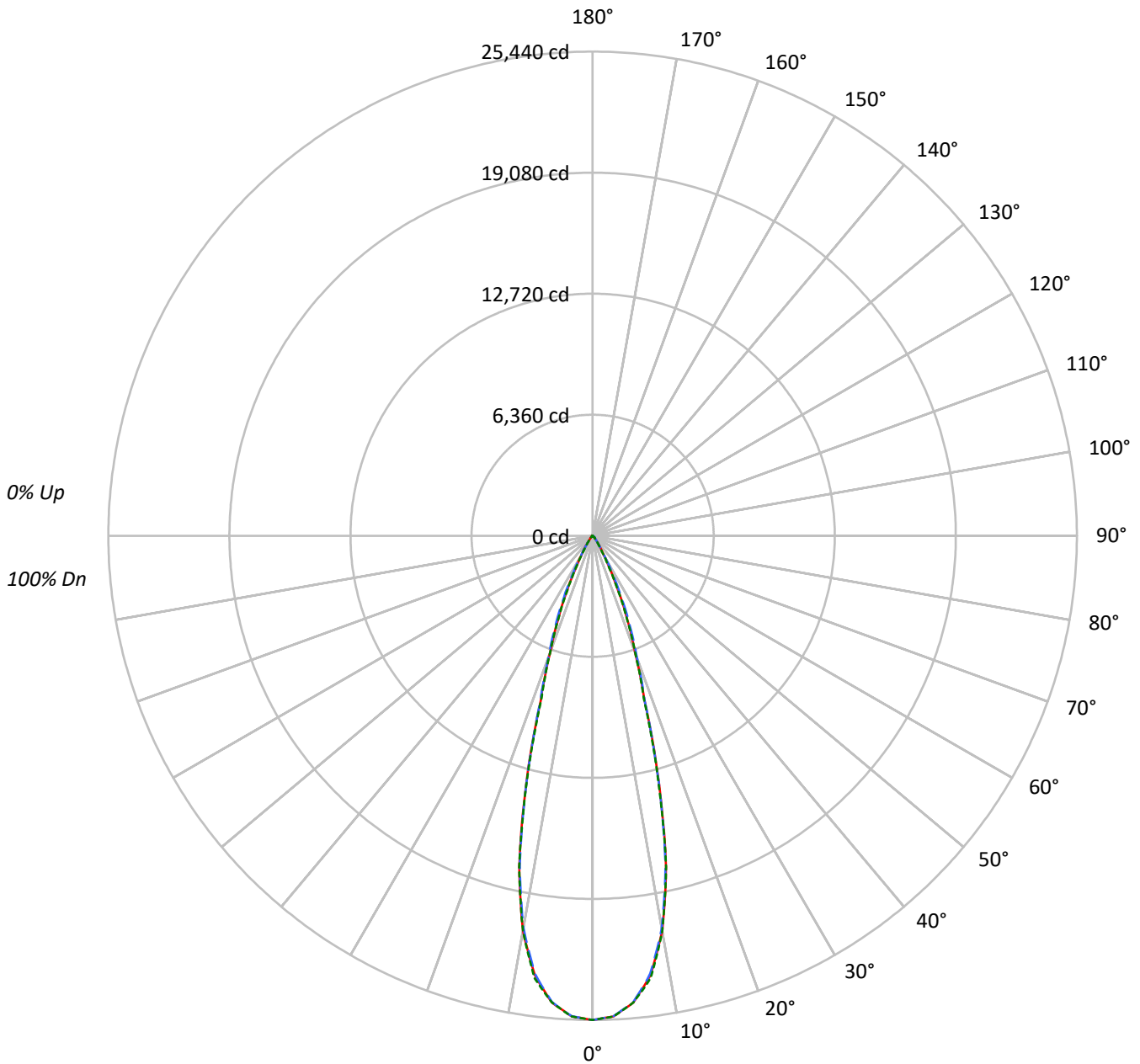


Downlight

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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°	1947279	1947279	1947279
5°	1891382	1889169	1891474
10°	1638224	1626666	1637835
15°	1068861	1063116	1057775
20°	531491	551431	530782
25°	267726	301906	262245
30°	107193	116800	93396
35°	49721	47618	39919
40°	21463	23841	20214
45°	15144	18792	15274
50°	5204	13682	5502
55°	3003	5672	3163
60°	2097	2480	2097
65°	1358	1358	1358
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2237.1	28.3
10°-20°	3602.8	45.5
20°-30°	1556.9	19.7
30°-40°	354.8	4.5
40°-50°	121.8	1.5
50°-60°	29.8	0.4
60°-70°	7.7	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°	7396.8	93.5
0°-40°	7751.6	98.0
0°-60°	7903.2	99.9
0°-90°	7911.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7911.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25440	25440	25440	25440	25440	
5°	24616	24592	24587	24638	24617	2239
15°	13488	13326	13416	13372	13348	3612
25°	3170	3290	3575	3206	3105	1517
35°	532	543	510	506	427	361
45°	140	174	174	174	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	7
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°	25440.2	25440.2	25440.2	25440.2	25440.2
2.5°	25271.6	25254.1	25264.1	25276.6	25281.6
5°	24615.9	24592.1	24587.1	24638.3	24617.1
7.5°	23293.1	23259.4	23208.2	23324.4	23433.0
10°	21077.4	21039.9	20928.7	20983.7	21072.4
12.5°	17806.2	17685.0	17682.5	17857.4	17833.6
15°	13488.3	13325.9	13415.8	13372.1	13348.4
17.5°	9070.4	9008.0	9127.9	9091.7	8935.6
20°	6524.9	6541.2	6769.7	6654.8	6516.2
22.5°	4761.3	4820.0	5091.0	4795.0	4686.4
25°	3170.0	3289.9	3574.7	3206.3	3105.1
27.5°	1949.7	2004.7	2293.2	1924.8	1869.8
30°	1212.8	1185.3	1321.5	1134.1	1056.7
32.5°	795.6	760.7	804.4	721.9	659.5
35°	532.1	543.3	509.6	505.9	427.2
37.5°	332.2	382.2	337.2	359.7	274.8
40°	214.8	277.3	238.6	263.5	202.3
42.5°	176.1	213.6	196.1	208.6	179.9
45°	139.9	173.6	173.6	173.6	141.1
47.5°	77.4	116.2	148.6	118.7	82.4
50°	43.7	58.7	114.9	61.2	46.2
52.5°	30.0	33.7	78.7	35.0	31.2
55°	22.5	23.7	42.5	25.0	23.7
57.5°	17.5	18.7	22.5	18.7	17.5
60°	13.7	13.7	16.2	15.0	13.7
62.5°	10.0	10.0	11.2	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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