

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: P754552

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754552
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-EU4DR3070959024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6690.9 lumens
Efficiency: N/A
Efficacy: 76.3 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

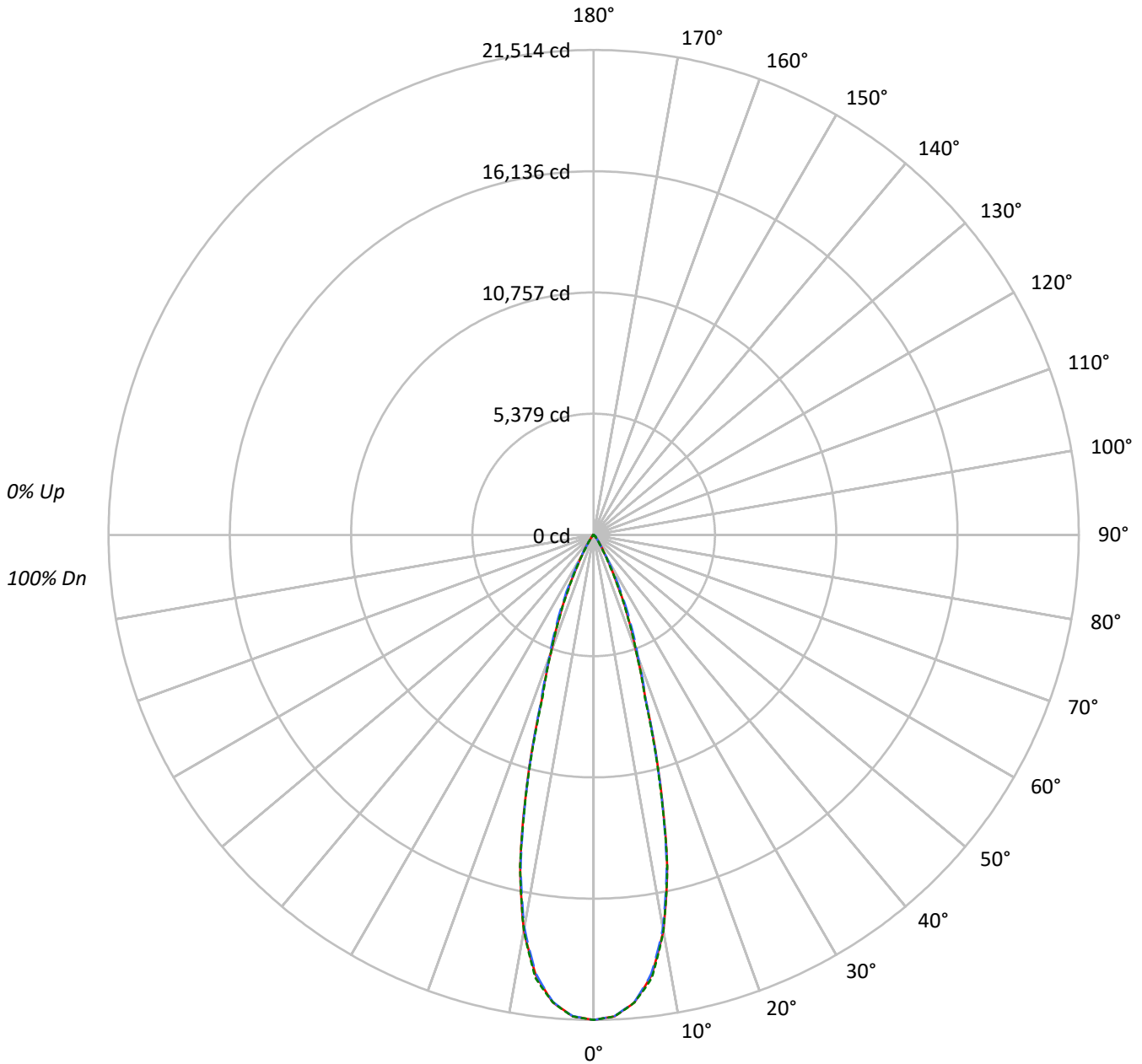
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					70					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°	1646785	1646785	1646785
5°	1599513	1597646	1599590
10°	1385418	1375648	1385092
15°	903915	899066	894541
20°	449473	466342	448870
25°	226419	255320	221774
30°	90656	98770	78981
35°	42049	40274	33751
40°	18156	20164	17096
45°	12806	15891	12925
50°	4406	11575	4656
55°	2536	4791	2682
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1891.9	28.3
10°-20°	3046.9	45.5
20°-30°	1316.6	19.7
30°-40°	300.1	4.5
40°-50°	103.0	1.5
50°-60°	25.2	0.4
60°-70°	6.5	0.1
70°-80°	0.7	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°	6255.4	93.5
0°-40°	6555.5	98.0
0°-60°	6683.6	99.9
0°-90°	6690.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6690.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21514	21514	21514	21514	21514	
5°	20817	20797	20793	20836	20818	1893
15°	11407	11270	11346	11309	11288	3054
25°	2681	2782	3023	2712	2626	1283
35°	450	460	431	428	361	305
45°	118	147	147	147	119	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21514.4	21514.4	21514.4	21514.4	21514.4
2.5°	21371.8	21357.0	21365.5	21376.0	21380.3
5°	20817.3	20797.2	20793.0	20836.3	20818.3
7.5°	19698.7	19670.1	19626.8	19725.1	19817.0
10°	17824.8	17793.1	17699.1	17745.6	17820.6
12.5°	15058.4	14955.9	14953.8	15101.7	15081.6
15°	11406.8	11269.5	11345.6	11308.6	11288.5
17.5°	7670.7	7617.9	7719.3	7688.7	7556.7
20°	5518.0	5531.8	5725.1	5627.9	5510.6
22.5°	4026.6	4076.2	4305.4	4055.1	3963.2
25°	2680.9	2782.3	3023.1	2711.5	2625.9
27.5°	1648.9	1695.3	1939.3	1627.7	1581.3
30°	1025.7	1002.4	1117.5	959.1	893.6
32.5°	672.9	643.3	680.2	610.5	557.7
35°	450.0	459.5	431.0	427.8	361.2
37.5°	281.0	323.2	285.2	304.2	232.4
40°	181.7	234.5	201.8	222.9	171.1
42.5°	148.9	180.6	165.8	176.4	152.1
45°	118.3	146.8	146.8	146.8	119.4
47.5°	65.5	98.2	125.7	100.3	69.7
50°	37.0	49.6	97.2	51.8	39.1
52.5°	25.4	28.5	66.5	29.6	26.4
55°	19.0	20.1	35.9	21.1	20.1
57.5°	14.8	15.8	19.0	15.8	14.8
60°	11.6	11.6	13.7	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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