

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P754596

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754596
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-EU4DR3070959035-4LBSQW1MW
Description: 4 INCH SQAURE 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: 6721.9 lumens
Efficiency: N/A
Efficacy: 76.6 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

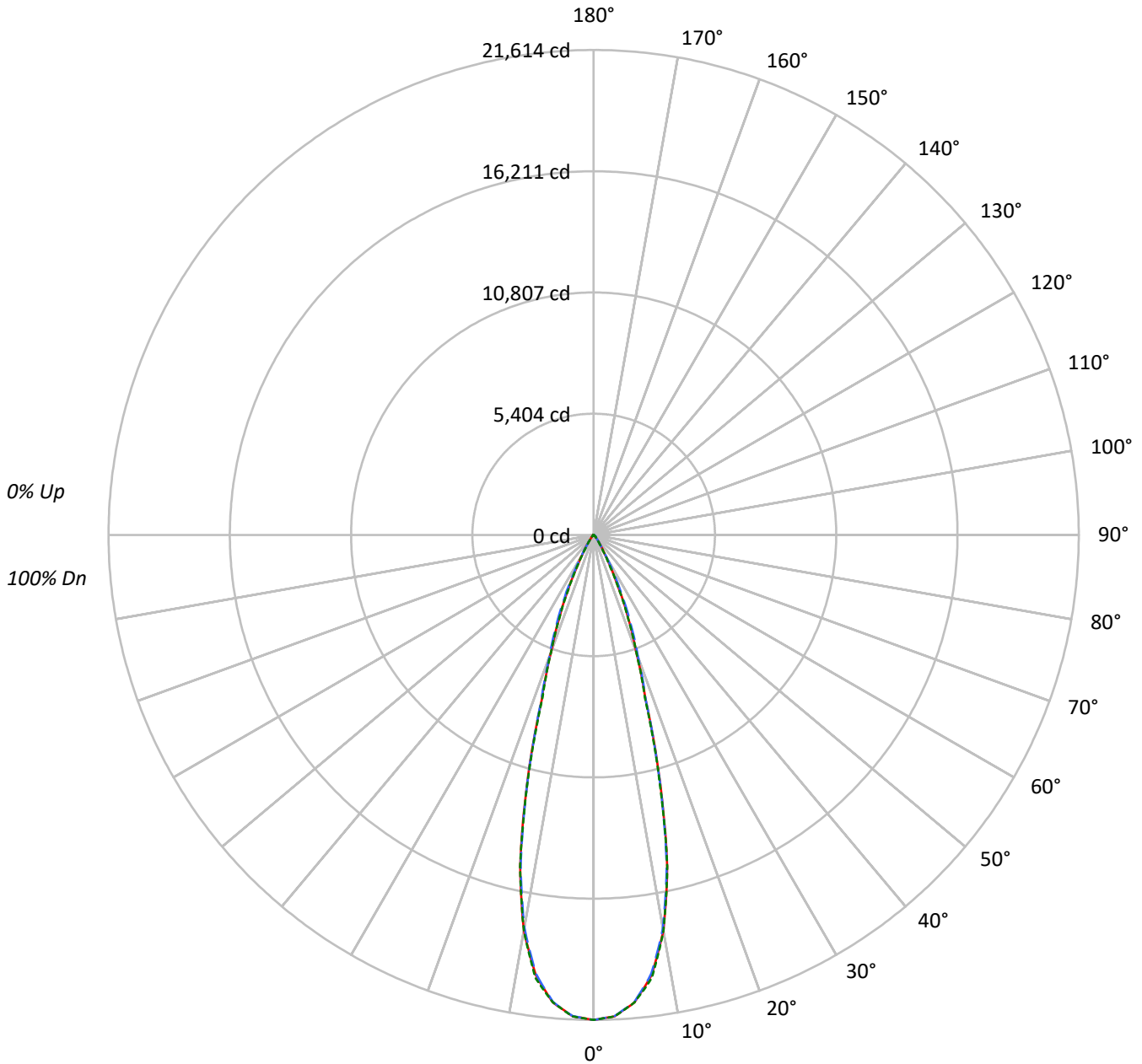
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1654401	1654401	1654401
5°	1606905	1605030	1606990
10°	1391831	1382014	1391496
15°	908099	903218	898677
20°	451558	468493	450947
25°	227466	256502	222804
30°	91072	99230	79352
35°	42245	40460	33910
40°	18235	20254	17176
45°	12871	15967	12979
50°	4418	11622	4680
55°	2549	4818	2696
60°	1791	2113	1791
65°	1159	1159	1159
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: 15967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1900.6	28.3
10°-20°	3061.0	45.5
20°-30°	1322.7	19.7
30°-40°	301.5	4.5
40°-50°	103.5	1.5
50°-60°	25.3	0.4
60°-70°	6.6	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°	6284.3	93.5
0°-40°	6585.8	98.0
0°-60°	6714.6	99.9
0°-90°	6721.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6721.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21614	21614	21614	21614	21614	
5°	20914	20893	20889	20933	20915	1902
15°	11460	11322	11398	11361	11341	3068
25°	2693	2795	3037	2724	2638	1289
35°	452	462	433	430	363	307
45°	119	148	148	148	120	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°	21613.9	21613.9	21613.9	21613.9	21613.9
2.5°	21470.7	21455.8	21464.3	21474.9	21479.2
5°	20913.5	20893.4	20889.1	20932.6	20914.6
7.5°	19789.8	19761.1	19717.6	19816.3	19908.6
10°	17907.3	17875.4	17781.0	17827.7	17903.0
12.5°	15128.0	15025.1	15023.0	15171.6	15151.4
15°	11459.6	11321.6	11398.0	11360.9	11340.7
17.5°	7706.2	7653.2	7755.0	7724.3	7591.6
20°	5543.6	5557.3	5751.5	5653.9	5536.1
22.5°	4045.2	4095.1	4325.3	4073.8	3981.5
25°	2693.3	2795.1	3037.1	2724.0	2638.1
27.5°	1656.5	1703.2	1948.3	1635.3	1588.6
30°	1030.4	1007.1	1122.7	963.5	897.8
32.5°	676.0	646.3	683.4	613.4	560.3
35°	452.1	461.6	433.0	429.8	362.9
37.5°	282.3	324.7	286.5	305.6	233.5
40°	182.5	235.6	202.7	223.9	171.9
42.5°	149.6	181.5	166.6	177.2	152.8
45°	118.9	147.5	147.5	147.5	119.9
47.5°	65.8	98.7	126.3	100.8	70.0
50°	37.1	49.9	97.6	52.0	39.3
52.5°	25.5	28.7	66.9	29.7	26.5
55°	19.1	20.2	36.1	21.2	20.2
57.5°	14.9	15.9	19.1	15.9	14.9
60°	11.7	11.7	13.8	12.7	11.7
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
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

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— 0°-180° - - 45°-225° - - - 90°-270°

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