

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: P754570

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754570
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-EU4DR3070959027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6456.6 lumens
Efficiency: N/A
Efficacy: 73.6 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

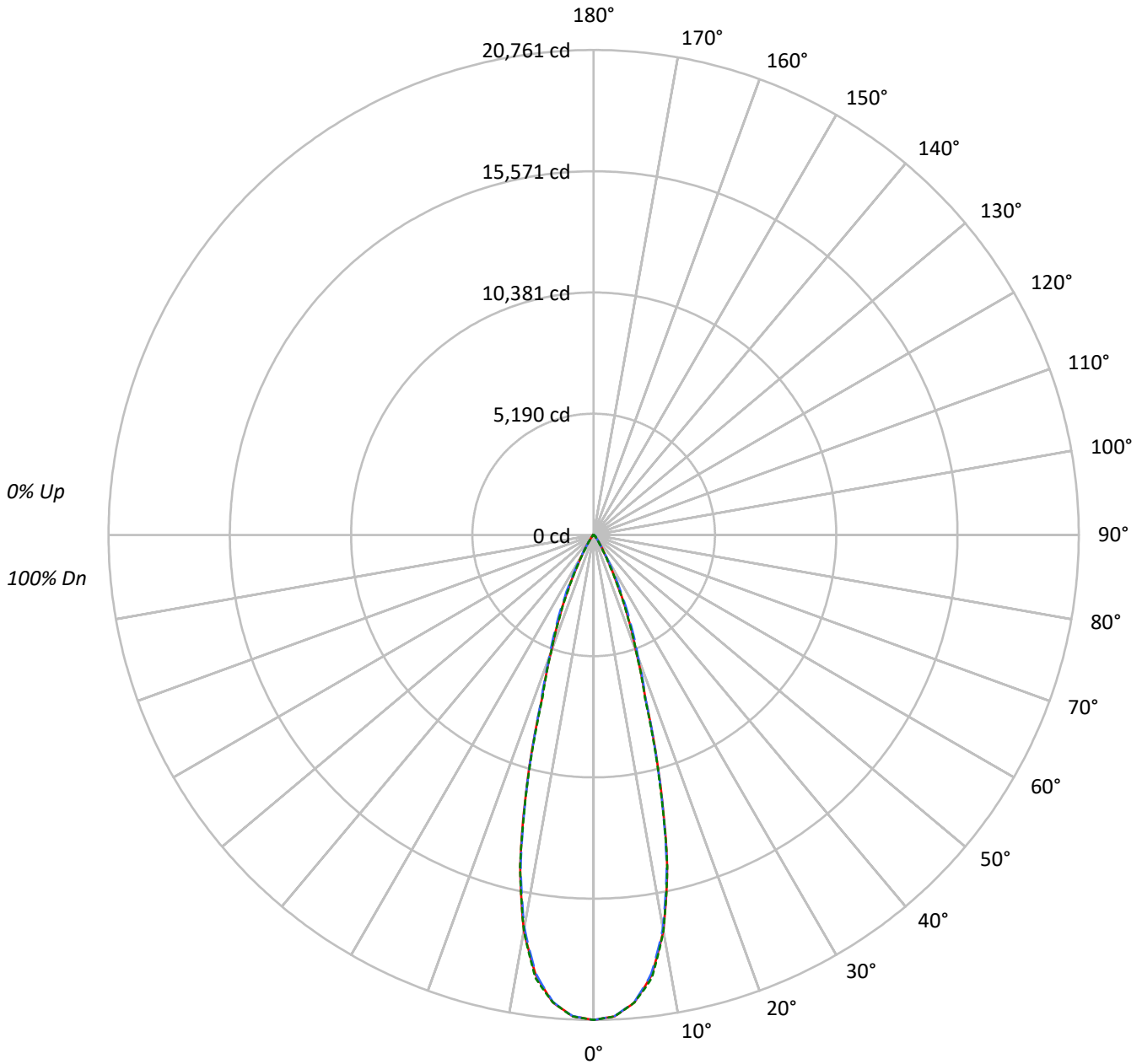
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	1589133	1589133	1589133
5°	1543516	1541710	1543592
10°	1336918	1327490	1336600
15°	872273	867590	863224
20°	433744	450011	433157
25°	218488	246384	214012
30°	87474	95314	76214
35°	40573	38863	32574
40°	17516	19454	16497
45°	12362	15339	12470
50°	4251	11170	4489
55°	2442	4631	2589
60°	1715	2036	1715
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15339 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1825.6	28.3
10°-20°	2940.2	45.5
20°-30°	1270.5	19.7
30°-40°	289.6	4.5
40°-50°	99.4	1.5
50°-60°	24.3	0.4
60°-70°	6.3	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°	6036.4	93.5
0°-40°	6326.0	98.0
0°-60°	6449.7	99.9
0°-90°	6456.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6456.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20761	20761	20761	20761	20761	
5°	20088	20069	20065	20107	20090	1827
15°	11008	10875	10948	10913	10893	2947
25°	2587	2685	2917	2617	2534	1238
35°	434	443	416	413	349	295
45°	114	142	142	142	115	81
55°	18	19	35	20	19	18
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°	20761.2	20761.2	20761.2	20761.2	20761.2
2.5°	20623.6	20609.3	20617.5	20627.7	20631.8
5°	20088.5	20069.1	20065.0	20106.8	20089.5
7.5°	19009.0	18981.5	18939.7	19034.5	19123.2
10°	17200.8	17170.2	17079.5	17124.3	17196.7
12.5°	14531.2	14432.4	14430.3	14573.0	14553.7
15°	11007.5	10875.0	10948.4	10912.7	10893.3
17.5°	7402.2	7351.2	7449.1	7419.5	7292.1
20°	5324.9	5338.1	5524.6	5430.9	5317.7
22.5°	3885.6	3933.5	4154.7	3913.1	3824.4
25°	2587.0	2684.9	2917.3	2616.6	2534.0
27.5°	1591.1	1636.0	1871.4	1570.8	1525.9
30°	989.7	967.3	1078.4	925.5	862.3
32.5°	649.3	620.8	656.4	589.2	538.2
35°	434.2	443.4	415.9	412.8	348.6
37.5°	271.1	311.9	275.2	293.6	224.2
40°	175.3	226.3	194.7	215.1	165.1
42.5°	143.7	174.3	160.0	170.2	146.8
45°	114.2	141.7	141.7	141.7	115.2
47.5°	63.2	94.8	121.3	96.8	67.3
50°	35.7	47.9	93.8	49.9	37.7
52.5°	24.5	27.5	64.2	28.5	25.5
55°	18.3	19.4	34.7	20.4	19.4
57.5°	14.3	15.3	18.3	15.3	14.3
60°	11.2	11.2	13.3	12.2	11.2
62.5°	8.2	8.2	9.2	8.2	8.2
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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