

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: P754584

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754584
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-EU4DR3070959035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7301.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

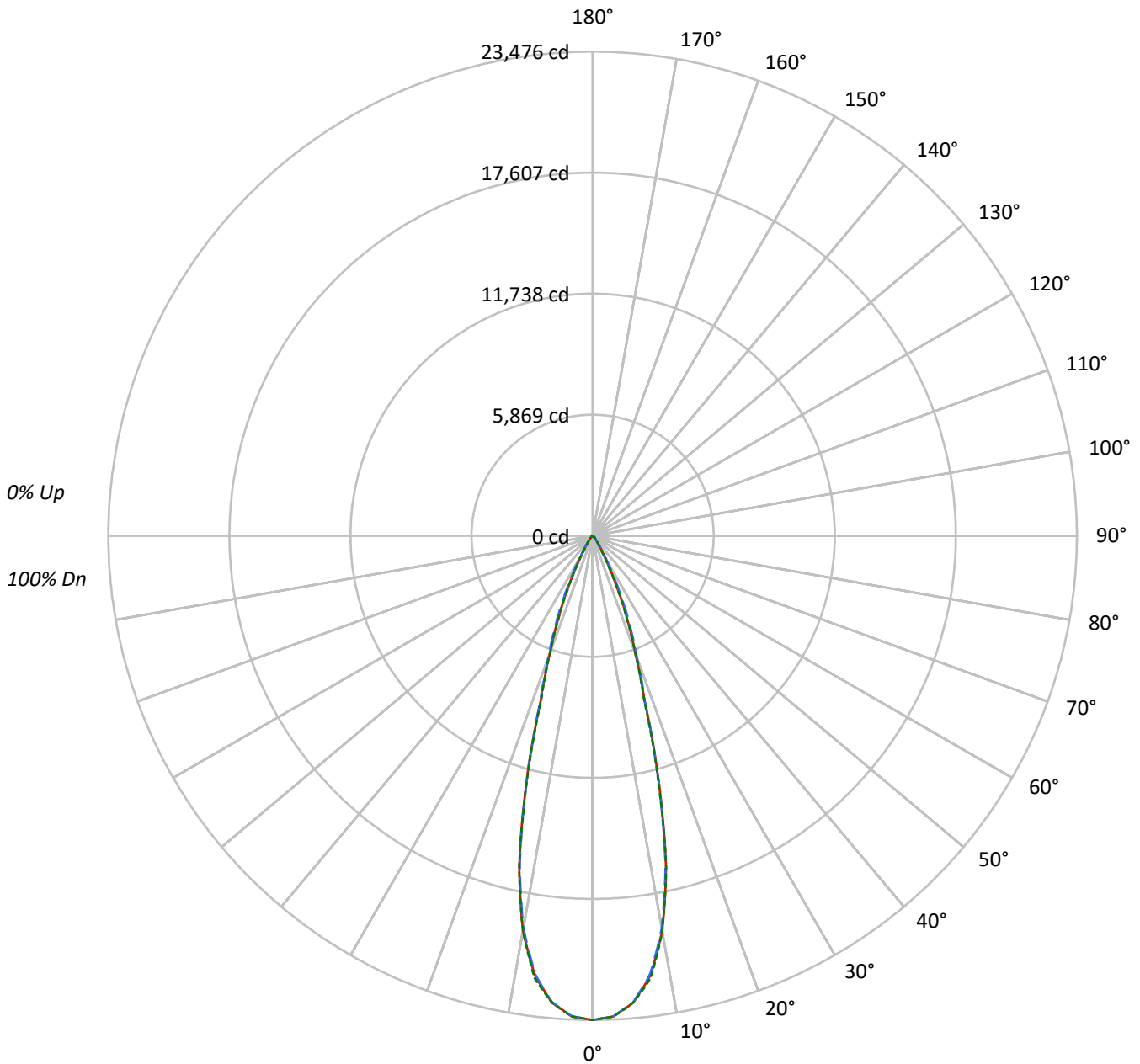
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1796963	1796963	1796963
5°	1745371	1743335	1745463
10°	1511759	1501095	1511401
15°	986345	981051	976114
20°	490462	508862	489810
25°	247060	278604	242001
30°	98920	107785	86184
35°	45880	43946	36835
40°	19804	21992	18655
45°	13975	17341	14094
50°	4799	12623	5073
55°	2762	5231	2923
60°	1944	2296	1944
65°	1250	1250	1250
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2064.4	28.3
10°-20°	3324.7	45.5
20°-30°	1436.7	19.7
30°-40°	327.5	4.5
40°-50°	112.4	1.5
50°-60°	27.5	0.4
60°-70°	7.1	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°	6825.8	93.5
0°-40°	7153.3	98.0
0°-60°	7293.2	99.9
0°-90°	7301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23476	23476	23476	23476	23476	
5°	22716	22694	22689	22736	22717	2066
15°	12447	12297	12380	12340	12318	3333
25°	2925	3036	3299	2959	2865	1400
35°	491	501	470	467	394	333
45°	129	160	160	160	130	92
55°	21	22	39	23	22	20
65°	7	7	7	7	7	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°	23476.4	23476.4	23476.4	23476.4	23476.4
2.5°	23320.8	23304.6	23313.8	23325.4	23330.0
5°	22715.6	22693.7	22689.1	22736.4	22716.8
7.5°	21495.0	21463.9	21416.6	21523.8	21624.1
10°	19450.3	19415.7	19313.1	19363.8	19445.7
12.5°	16431.6	16319.8	16317.5	16478.9	16457.0
15°	12447.0	12297.2	12380.2	12339.8	12317.9
17.5°	8370.3	8312.6	8423.3	8389.8	8245.8
20°	6021.2	6036.2	6247.1	6141.1	6013.2
22.5°	4393.7	4447.9	4698.0	4424.9	4324.6
25°	2925.3	3036.0	3298.8	2958.7	2865.4
27.5°	1799.2	1849.9	2116.2	1776.2	1725.5
30°	1119.2	1093.8	1219.5	1046.6	975.1
32.5°	734.2	701.9	742.3	666.2	608.6
35°	491.0	501.4	470.3	466.8	394.2
37.5°	306.6	352.7	311.2	332.0	253.6
40°	198.2	255.9	220.1	243.2	186.7
42.5°	162.5	197.1	181.0	192.5	166.0
45°	129.1	160.2	160.2	160.2	130.2
47.5°	71.5	107.2	137.2	109.5	76.1
50°	40.3	54.2	106.0	56.5	42.6
52.5°	27.7	31.1	72.6	32.3	28.8
55°	20.7	21.9	39.2	23.1	21.9
57.5°	16.1	17.3	20.7	17.3	16.1
60°	12.7	12.7	15.0	13.8	12.7
62.5°	9.2	9.2	10.4	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	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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