

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: P754571

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754571
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-EU4DR3070959030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7224.9 lumens
Efficiency: N/A
Efficacy: 82.4 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

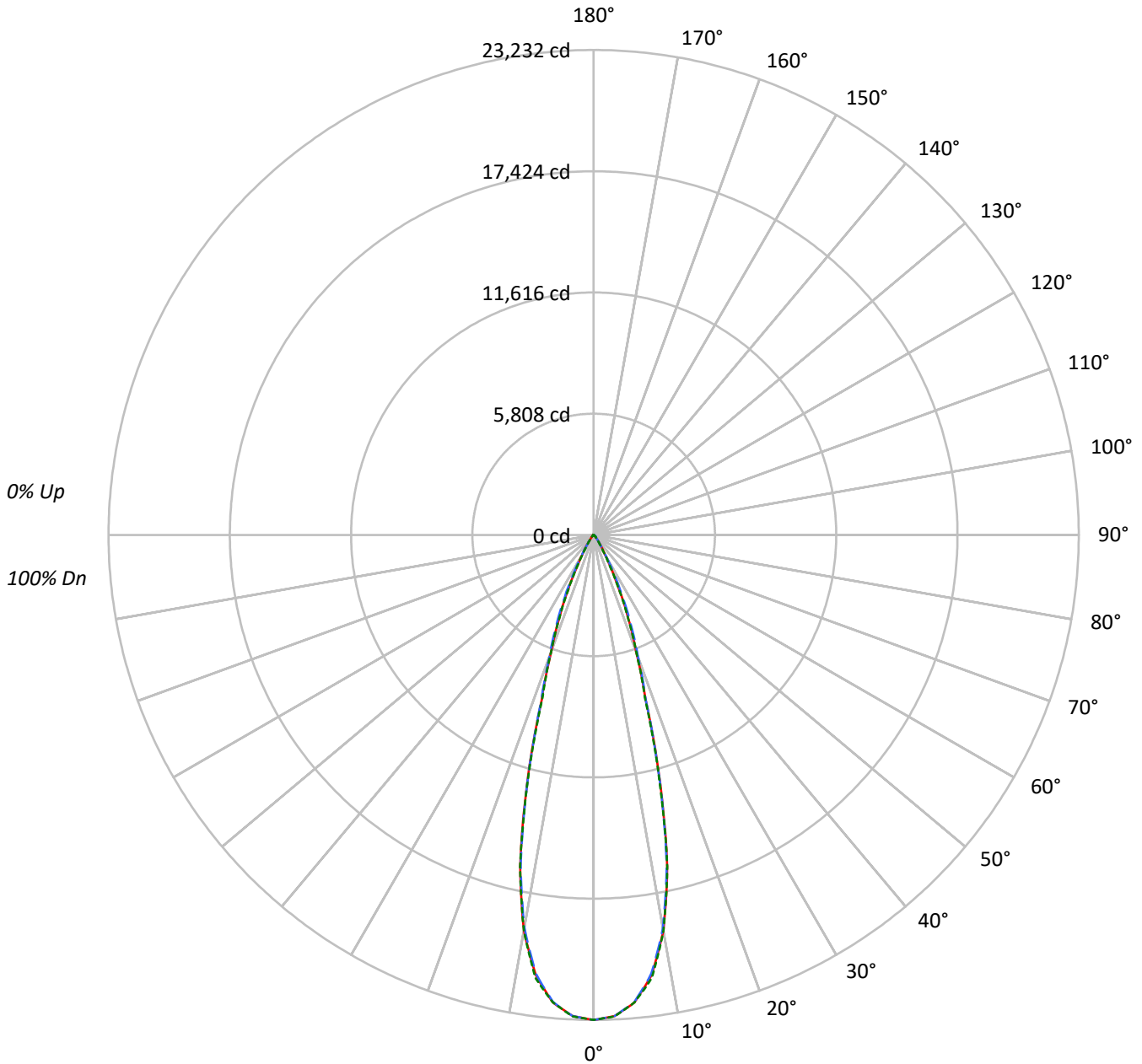
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1778233	1778233	1778233
5°	1727184	1725163	1727268
10°	1496004	1485449	1495647
15°	976067	970821	965939
20°	485354	503560	484703
25°	244484	275699	239476
30°	97886	106663	85282
35°	45404	43488	36452
40°	19604	21773	18465
45°	13823	17157	13953
50°	4751	12492	5025
55°	2736	5178	2896
60°	1914	2266	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2042.9	28.3
10°-20°	3290.1	45.5
20°-30°	1421.7	19.7
30°-40°	324.0	4.5
40°-50°	111.3	1.5
50°-60°	27.2	0.4
60°-70°	7.0	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°	6754.7	93.5
0°-40°	7078.7	98.0
0°-60°	7217.1	99.9
0°-90°	7224.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7224.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23232	23232	23232	23232	23232	
5°	22479	22457	22453	22499	22480	2045
15°	12317	12169	12251	12211	12190	3298
25°	2895	3004	3264	2928	2836	1386
35°	486	496	465	462	390	330
45°	128	158	158	158	129	91
55°	20	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°	23231.7	23231.7	23231.7	23231.7	23231.7
2.5°	23077.7	23061.7	23070.8	23082.2	23086.8
5°	22478.9	22457.2	22452.6	22499.4	22480.0
7.5°	21271.0	21240.2	21193.4	21299.5	21398.7
10°	19247.6	19213.3	19111.8	19162.0	19243.0
12.5°	16260.3	16149.7	16147.4	16307.1	16285.4
15°	12317.3	12169.0	12251.1	12211.2	12189.5
17.5°	8283.0	8226.0	8335.5	8302.4	8159.8
20°	5958.5	5973.3	6182.0	6077.1	5950.5
22.5°	4348.0	4401.6	4649.1	4378.7	4279.5
25°	2894.8	3004.3	3264.4	2927.9	2835.5
27.5°	1780.5	1830.7	2094.1	1757.7	1707.5
30°	1107.5	1082.4	1206.8	1035.7	964.9
32.5°	726.6	694.6	734.5	659.3	602.2
35°	485.9	496.2	465.4	461.9	390.1
37.5°	303.4	349.0	308.0	328.5	250.9
40°	196.2	253.2	217.9	240.7	184.8
42.5°	160.8	195.0	179.1	190.5	164.2
45°	127.7	158.5	158.5	158.5	128.9
47.5°	70.7	106.1	135.7	108.4	75.3
50°	39.9	53.6	104.9	55.9	42.2
52.5°	27.4	30.8	71.9	31.9	28.5
55°	20.5	21.7	38.8	22.8	21.7
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.5	12.5	14.8	13.7	12.5
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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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