

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: P754573

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754573
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-EU4DR3070959030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7226.0 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

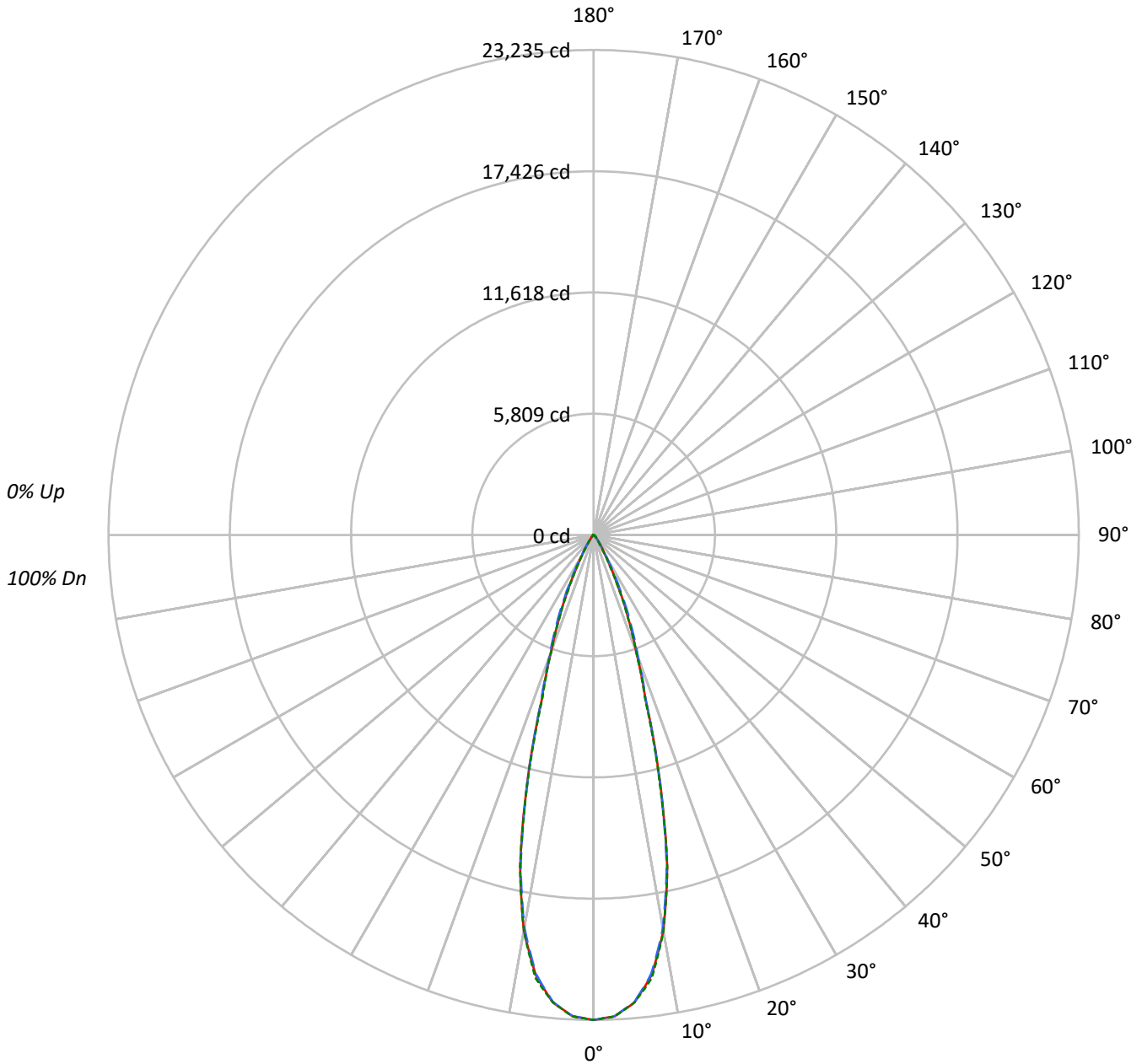
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1778509	1778509	1778509
5°	1727453	1725440	1727537
10°	1496238	1485683	1495880
15°	976217	970979	966098
20°	485428	503641	484776
25°	244526	275741	239518
30°	97904	106671	85300
35°	45413	43488	36452
40°	19604	21773	18465
45°	13834	17168	13953
50°	4751	12503	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: 17168 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2043.2	28.3
10°-20°	3290.6	45.5
20°-30°	1421.9	19.7
30°-40°	324.1	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°	6755.7	93.5
0°-40°	7079.8	98.0
0°-60°	7218.3	99.9
0°-90°	7226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23235	23235	23235	23235	23235	
5°	22482	22461	22456	22503	22484	2045
15°	12319	12171	12253	12213	12192	3299
25°	2895	3005	3265	2928	2836	1386
35°	486	496	465	462	390	330
45°	128	159	159	159	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°	23235.3	23235.3	23235.3	23235.3	23235.3
2.5°	23081.3	23065.3	23074.5	23085.9	23090.4
5°	22482.4	22460.7	22456.2	22502.9	22483.5
7.5°	21274.3	21243.5	21196.7	21302.8	21402.1
10°	19250.6	19216.4	19114.8	19165.0	19246.0
12.5°	16262.9	16152.2	16150.0	16309.7	16288.0
15°	12319.2	12170.9	12253.1	12213.1	12191.5
17.5°	8284.3	8227.3	8336.8	8303.7	8161.1
20°	5959.4	5974.2	6183.0	6078.1	5951.4
22.5°	4348.6	4402.3	4649.8	4379.4	4280.2
25°	2895.3	3004.8	3264.9	2928.4	2836.0
27.5°	1780.8	1830.9	2094.5	1757.9	1707.7
30°	1107.7	1082.6	1206.9	1035.8	965.1
32.5°	726.7	694.7	734.7	659.4	602.3
35°	486.0	496.2	465.4	462.0	390.1
37.5°	303.4	349.1	308.0	328.5	251.0
40°	196.2	253.3	217.9	240.7	184.8
42.5°	160.8	195.1	179.1	190.5	164.3
45°	127.8	158.6	158.6	158.6	128.9
47.5°	70.7	106.1	135.8	108.4	75.3
50°	39.9	53.6	105.0	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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