

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: P755376

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755376
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: LD4D90BD010-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: 7130.9 lumens
Efficiency: N/A
Efficacy: 72.1 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

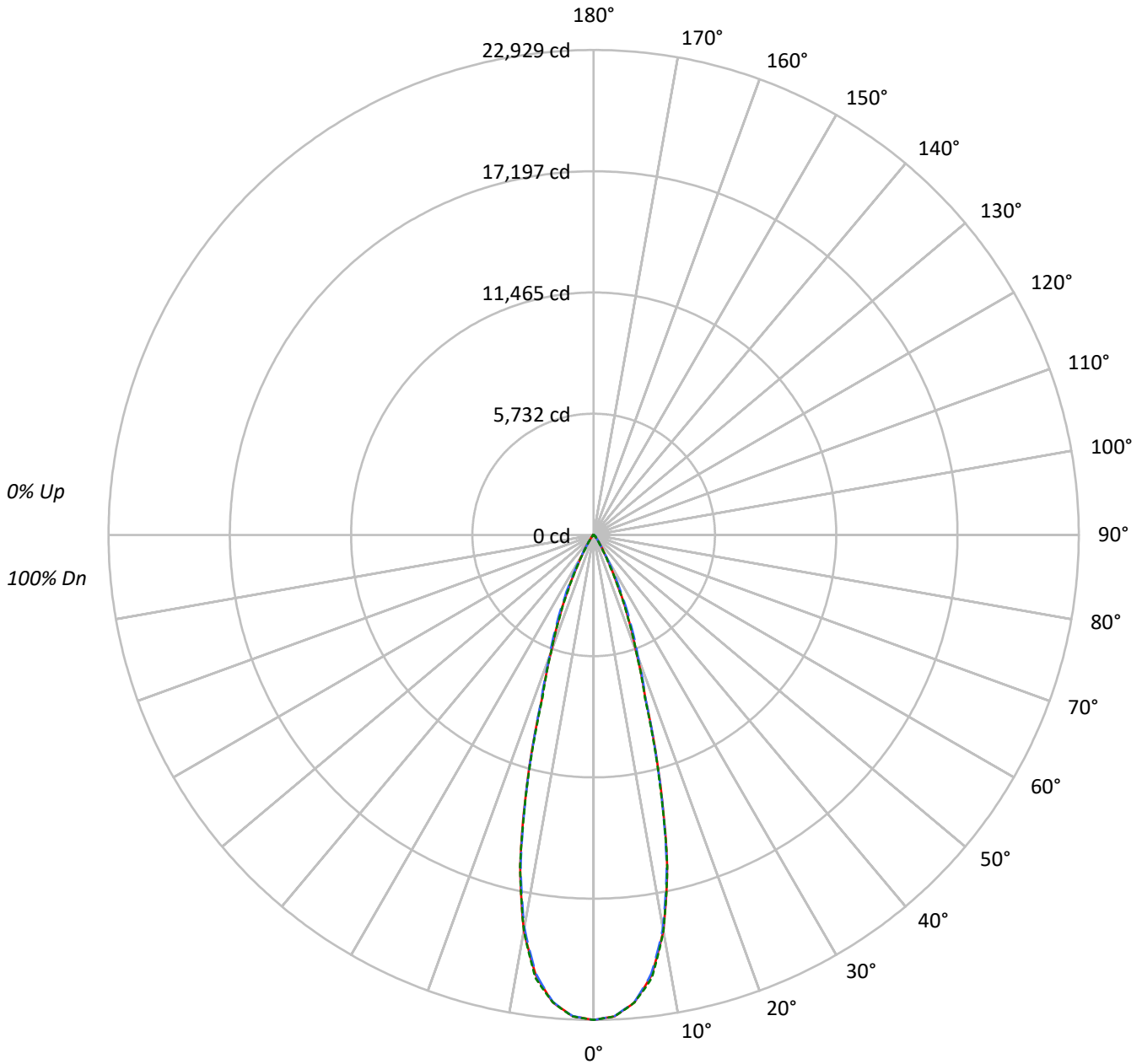
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1755094	1755094	1755094
5°	1704709	1702719	1704794
10°	1476534	1466127	1476185
15°	963364	958189	953371
20°	479033	497011	478398
25°	241309	272110	236359
30°	96613	105266	84178
35°	44815	42918	35975
40°	19345	21483	18225
45°	13650	16941	13769
50°	4692	12337	4966
55°	2709	5111	2856
60°	1898	2235	1898
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: 16941 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2016.3	28.3
10°-20°	3247.3	45.5
20°-30°	1403.2	19.7
30°-40°	319.8	4.5
40°-50°	109.8	1.5
50°-60°	26.8	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°	6666.8	93.5
0°-40°	6986.6	98.0
0°-60°	7123.2	99.9
0°-90°	7130.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7130.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22929	22929	22929	22929	22929	
5°	22186	22165	22160	22207	22188	2018
15°	12157	12011	12092	12052	12031	3255
25°	2857	2965	3222	2890	2799	1368
35°	480	490	459	456	385	325
45°	126	156	156	156	127	89
55°	20	21	38	22	21	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°	22929.4	22929.4	22929.4	22929.4	22929.4
2.5°	22777.4	22761.7	22770.7	22781.9	22786.4
5°	22186.4	22165.0	22160.5	22206.7	22187.5
7.5°	20994.2	20963.8	20917.7	21022.4	21120.3
10°	18997.1	18963.4	18863.2	18912.7	18992.6
12.5°	16048.8	15939.6	15937.3	16094.9	16073.5
15°	12157.0	12010.7	12091.7	12052.3	12030.9
17.5°	8175.2	8118.9	8227.0	8194.4	8053.7
20°	5880.9	5895.6	6101.6	5998.0	5873.1
22.5°	4291.4	4344.3	4588.6	4321.8	4223.8
25°	2857.2	2965.2	3221.9	2889.8	2798.6
27.5°	1757.3	1806.8	2066.9	1734.8	1685.3
30°	1093.1	1068.3	1191.0	1022.2	952.4
32.5°	717.1	685.6	725.0	650.7	594.4
35°	479.6	489.7	459.3	455.9	385.0
37.5°	299.5	344.5	304.0	324.2	247.7
40°	193.6	249.9	215.0	237.5	182.4
42.5°	158.7	192.5	176.7	188.0	162.1
45°	126.1	156.5	156.5	156.5	127.2
47.5°	69.8	104.7	134.0	106.9	74.3
50°	39.4	52.9	103.6	55.2	41.7
52.5°	27.0	30.4	70.9	31.5	28.1
55°	20.3	21.4	38.3	22.5	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.6	13.5	12.4
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
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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