

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: P755390

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755390
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-EU4DR3070959050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8165.4 lumens
Efficiency: N/A
Efficacy: 82.6 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

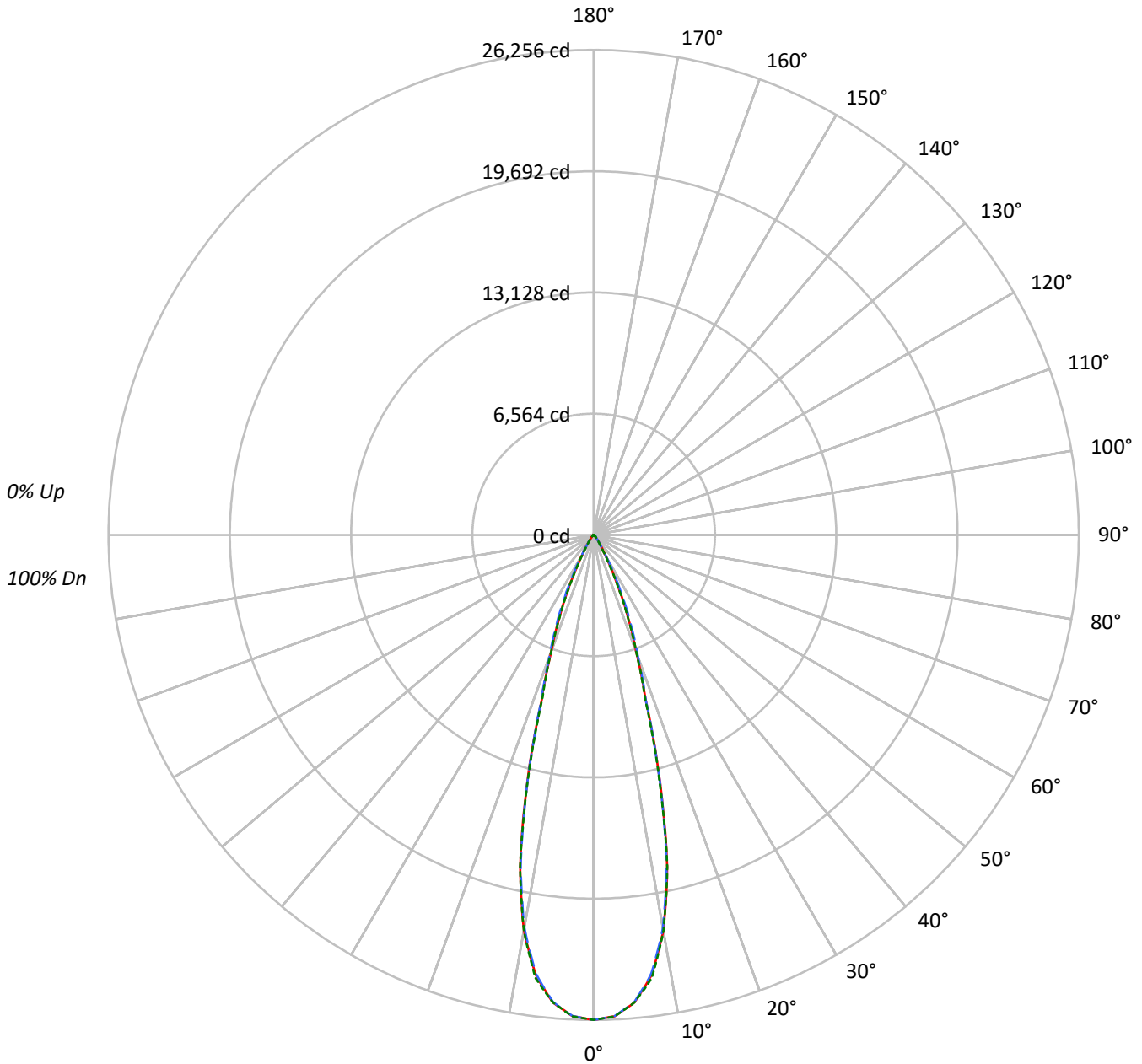
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2009708	2009708	2009708
5°	1952013	1949731	1952113
10°	1690735	1678812	1690338
15°	1103126	1097198	1091683
20°	548531	569115	547798
25°	276316	311585	270649
30°	110631	120539	96392
35°	51309	49141	41199
40°	22152	24600	20863
45°	15631	19398	15772
50°	5371	14123	5680
55°	3096	5845	3270
60°	2174	2572	2174
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2308.8	28.3
10°-20°	3718.3	45.5
20°-30°	1606.8	19.7
30°-40°	366.2	4.5
40°-50°	125.8	1.5
50°-60°	30.7	0.4
60°-70°	8.0	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°	7633.9	93.5
0°-40°	8000.1	98.0
0°-60°	8156.6	99.9
0°-90°	8165.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8165.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26256	26256	26256	26256	26256	
5°	25405	25380	25375	25428	25406	2311
15°	13921	13753	13846	13801	13776	3727
25°	3272	3395	3689	3309	3205	1566
35°	549	561	526	522	441	372
45°	144	179	179	179	146	102
55°	23	24	44	26	24	23
65°	8	8	8	8	8	8
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°	26255.8	26255.8	26255.8	26255.8	26255.8
2.5°	26081.7	26063.7	26074.0	26086.9	26092.0
5°	25405.0	25380.5	25375.3	25428.2	25406.3
7.5°	24039.8	24005.0	23952.2	24072.1	24184.2
10°	21753.0	21714.4	21599.6	21656.4	21747.9
12.5°	18377.0	18251.9	18249.4	18429.8	18405.3
15°	13920.7	13753.1	13845.9	13800.8	13776.3
17.5°	9361.2	9296.8	9420.5	9383.1	9222.0
20°	6734.1	6750.9	6986.8	6868.2	6725.1
22.5°	4913.9	4974.5	5254.2	4948.7	4836.6
25°	3271.7	3395.4	3689.3	3309.0	3204.6
27.5°	2012.2	2069.0	2366.7	1986.5	1929.7
30°	1251.7	1223.3	1363.8	1170.5	1090.6
32.5°	821.1	785.0	830.2	745.1	680.6
35°	549.1	560.7	525.9	522.1	440.9
37.5°	342.9	394.5	348.0	371.3	283.6
40°	221.7	286.2	246.2	272.0	208.8
42.5°	181.8	220.4	202.4	215.3	185.6
45°	144.4	179.2	179.2	179.2	145.7
47.5°	79.9	119.9	153.4	122.5	85.1
50°	45.1	60.6	118.6	63.2	47.7
52.5°	30.9	34.8	81.2	36.1	32.2
55°	23.2	24.5	43.8	25.8	24.5
57.5°	18.0	19.3	23.2	19.3	18.0
60°	14.2	14.2	16.8	15.5	14.2
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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