

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: P749928

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749928
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: LD4D55D010-EU4DR3055659040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4291.9 lumens
Efficiency: N/A
Efficacy: 73.7 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

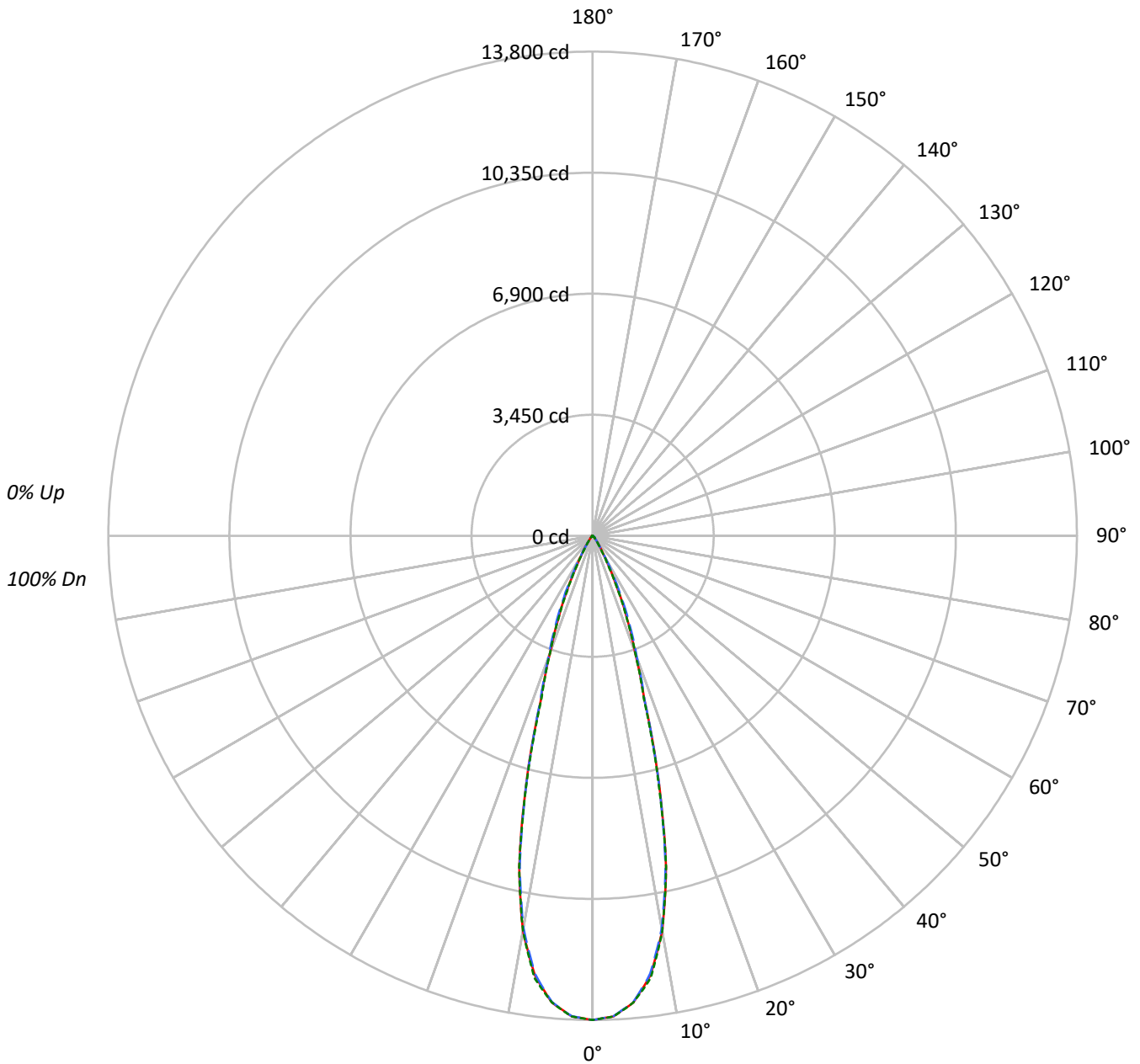
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	1056337	1056337	1056337
5°	1026011	1024820	1026065
10°	888683	882418	888473
15°	579825	576711	573811
20°	288321	299138	287930
25°	145231	163778	142258
30°	58148	63363	50662
35°	26967	25827	21651
40°	11641	12930	10971
45°	8216	10197	8292
50°	2822	7419	2989
55°	1628	3069	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1213.5	28.3
10°-20°	1954.4	45.5
20°-30°	844.6	19.7
30°-40°	192.5	4.5
40°-50°	66.1	1.5
50°-60°	16.2	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4012.5	93.5
0°-40°	4205.0	98.0
0°-60°	4287.3	99.9
0°-90°	4291.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4291.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13800	13800	13800	13800	13800	
5°	13353	13340	13338	13366	13354	1215
15°	7317	7229	7278	7254	7241	1959
25°	1720	1785	1939	1739	1684	823
35°	289	295	276	274	232	196
45°	76	94	94	94	77	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
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°	13800.5	13800.5	13800.5	13800.5	13800.5
2.5°	13709.1	13699.6	13705.0	13711.8	13714.5
5°	13353.3	13340.5	13337.8	13365.5	13354.0
7.5°	12635.8	12617.5	12589.7	12652.7	12711.7
10°	11433.8	11413.5	11353.2	11383.0	11431.1
12.5°	9659.3	9593.6	9592.2	9687.1	9674.2
15°	7317.0	7228.9	7277.7	7254.0	7241.1
17.5°	4920.4	4886.6	4951.6	4932.0	4847.3
20°	3539.6	3548.4	3672.4	3610.0	3534.8
22.5°	2582.9	2614.7	2761.7	2601.2	2542.2
25°	1719.6	1784.7	1939.2	1739.3	1684.4
27.5°	1057.7	1087.5	1244.0	1044.1	1014.3
30°	657.9	643.0	716.9	615.2	573.2
32.5°	431.6	412.6	436.3	391.6	357.8
35°	288.6	294.7	276.4	274.4	231.7
37.5°	180.2	207.3	182.9	195.1	149.1
40°	116.5	150.4	129.4	143.0	109.8
42.5°	95.5	115.9	106.4	113.2	97.6
45°	75.9	94.2	94.2	94.2	76.6
47.5°	42.0	63.0	80.6	64.4	44.7
50°	23.7	31.8	62.3	33.2	25.1
52.5°	16.3	18.3	42.7	19.0	16.9
55°	12.2	12.9	23.0	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.1	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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