

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: P749915

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749915
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-EU4DR3055659035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.2 lumens
Efficiency: N/A
Efficacy: 70.5 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')

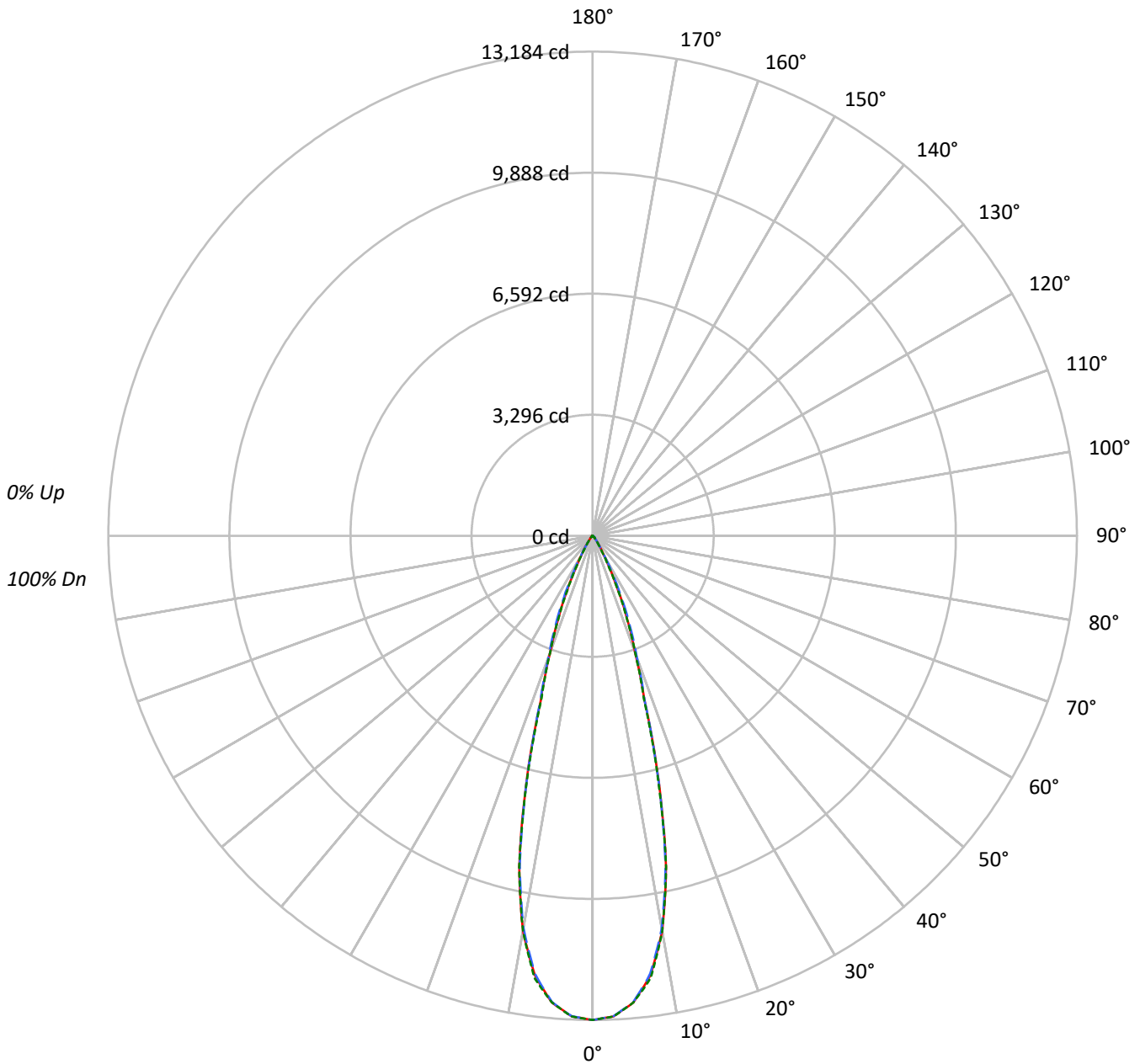
CIE Type: Direct

Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (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					70					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°	1009156	1009156	1009156
5°	980186	979041	980240
10°	848989	843004	848787
15°	553928	550949	548183
20°	275443	285779	275068
25°	138745	156464	135907
30°	55550	60526	48399
35°	25762	24678	20688
40°	11121	12350	10482
45°	7848	9742	7913
50°	2703	7097	2846
55°	1561	2936	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9742 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.3	28.3
10°-20°	1867.1	45.5
20°-30°	806.8	19.7
30°-40°	183.9	4.5
40°-50°	63.1	1.5
50°-60°	15.4	0.4
60°-70°	4.0	0.1
70°-80°	0.4	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°	3833.3	93.5
0°-40°	4017.2	98.0
0°-60°	4095.8	99.9
0°-90°	4100.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4100.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13184	13184	13184	13184	13184	
5°	12757	12745	12742	12769	12758	1160
15°	6990	6906	6953	6930	6918	1872
25°	1643	1705	1853	1662	1609	786
35°	276	282	264	262	221	187
45°	72	90	90	90	73	51
55°	12	12	22	13	12	11
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°	13184.1	13184.1	13184.1	13184.1	13184.1
2.5°	13096.8	13087.7	13092.9	13099.4	13101.9
5°	12756.9	12744.6	12742.0	12768.6	12757.6
7.5°	12071.4	12054.0	12027.4	12087.6	12143.9
10°	10923.1	10903.7	10846.1	10874.6	10920.5
12.5°	9227.9	9165.1	9163.8	9254.4	9242.1
15°	6990.2	6906.0	6952.6	6930.0	6917.7
17.5°	4700.7	4668.3	4730.4	4711.7	4630.8
20°	3381.5	3389.9	3508.4	3448.8	3376.9
22.5°	2467.5	2497.9	2638.4	2485.0	2428.7
25°	1642.8	1705.0	1852.6	1661.6	1609.2
27.5°	1010.4	1038.9	1188.4	997.5	969.0
30°	628.5	614.3	684.8	587.7	547.6
32.5°	412.3	394.2	416.9	374.1	341.8
35°	275.7	281.6	264.1	262.2	221.4
37.5°	172.2	198.1	174.8	186.4	142.4
40°	111.3	143.7	123.6	136.6	104.9
42.5°	91.3	110.7	101.6	108.1	93.2
45°	72.5	90.0	90.0	90.0	73.1
47.5°	40.1	60.2	77.0	61.5	42.7
50°	22.7	30.4	59.6	31.7	23.9
52.5°	15.5	17.5	40.8	18.1	16.2
55°	11.7	12.3	22.0	12.9	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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