

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: P749877

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749877
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-EU4DR3055659024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3849.3 lumens
Efficiency: N/A
Efficacy: 66.1 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

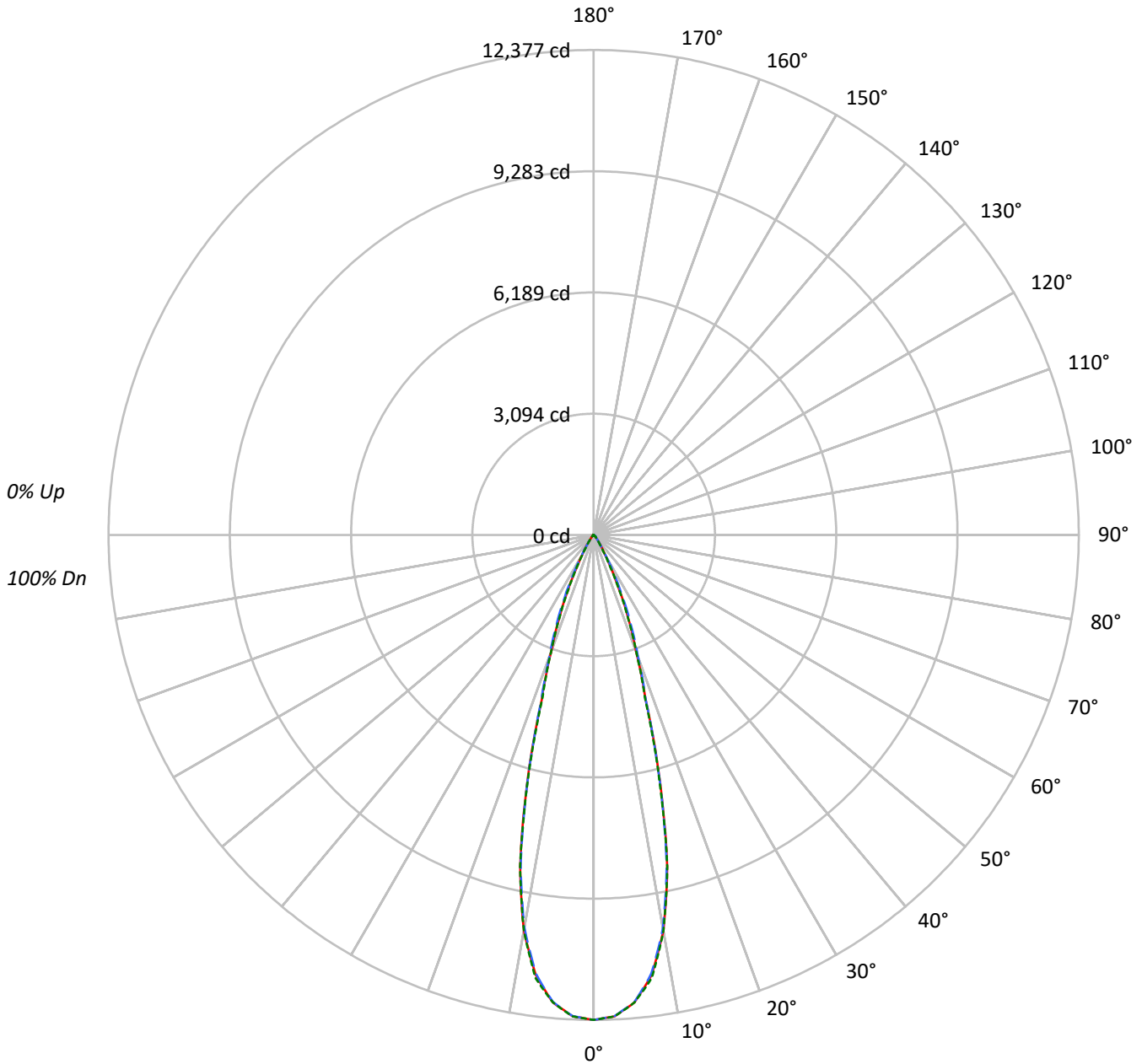
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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°	947401	947401	947401
5°	920208	919133	920254
10°	797038	791419	796852
15°	520028	517231	514631
20°	258581	268291	258239
25°	130257	146886	127588
30°	52156	56823	45439
35°	24192	23164	19417
40°	10442	11601	9832
45°	7372	9147	7437
50°	2536	6657	2679
55°	1455	2762	1535
60°	1026	1209	1026
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9147 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.4	28.3
10°-20°	1752.9	45.5
20°-30°	757.5	19.7
30°-40°	172.6	4.5
40°-50°	59.3	1.5
50°-60°	14.5	0.4
60°-70°	3.7	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°	3598.7	93.5
0°-40°	3771.4	98.0
0°-60°	3845.1	99.9
0°-90°	3849.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12377	12377	12377	12377	12377	
5°	11976	11965	11962	11987	11977	1089
15°	6562	6483	6527	6506	6494	1757
25°	1542	1601	1739	1560	1511	738
35°	259	264	248	246	208	176
45°	68	84	84	84	69	48
55°	11	12	21	12	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°	12377.3	12377.3	12377.3	12377.3	12377.3
2.5°	12295.3	12286.8	12291.6	12297.7	12300.2
5°	11976.3	11964.7	11962.3	11987.2	11976.9
7.5°	11332.7	11316.3	11291.4	11347.9	11400.8
10°	10254.7	10236.5	10182.4	10209.1	10252.3
12.5°	8663.2	8604.2	8603.0	8688.1	8676.5
15°	6562.4	6483.4	6527.1	6505.9	6494.3
17.5°	4413.0	4382.6	4441.0	4423.3	4347.4
20°	3174.5	3182.4	3293.7	3237.7	3170.3
22.5°	2316.5	2345.1	2476.9	2332.9	2280.0
25°	1542.3	1600.6	1739.2	1559.9	1510.7
27.5°	948.6	975.3	1115.7	936.4	909.7
30°	590.1	576.7	642.9	551.8	514.1
32.5°	387.1	370.1	391.3	351.2	320.9
35°	258.9	264.3	247.9	246.1	207.8
37.5°	161.6	186.0	164.1	175.0	133.7
40°	104.5	134.9	116.1	128.2	98.4
42.5°	85.7	103.9	95.4	101.5	87.5
45°	68.1	84.5	84.5	84.5	68.7
47.5°	37.7	56.5	72.3	57.7	40.1
50°	21.3	28.6	55.9	29.8	22.5
52.5°	14.6	16.4	38.3	17.0	15.2
55°	10.9	11.5	20.7	12.2	11.5
57.5°	8.5	9.1	10.9	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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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