

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: P749867

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749867
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-EU4DR3055659024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 4181.6 lumens
Efficiency: N/A
Efficacy: 71.8 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')

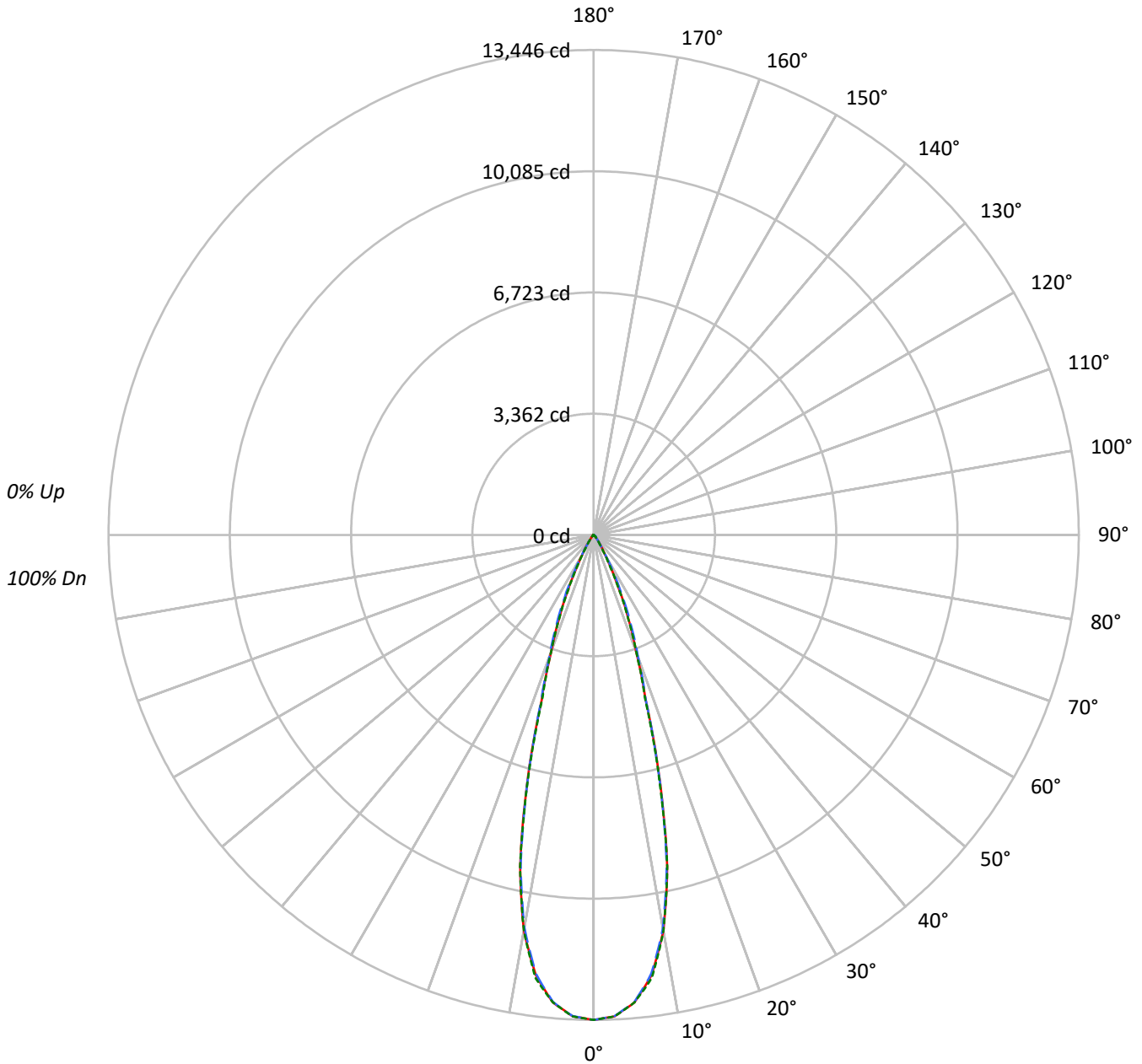
CIE Type: Direct

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°	1029203	1029203	1029203
5°	999657	998489	999703
10°	865855	859746	865646
15°	564927	561892	559063
20°	280908	291449	280534
25°	141507	159572	138601
30°	56655	61728	49363
35°	26276	25164	21099
40°	11341	12600	10681
45°	8000	9937	8075
50°	2751	7228	2906
55°	1588	2989	1668
60°	1118	1317	1118
65°	724	724	724
70°	448	291	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: 9937 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.4	28.3
10°-20°	1904.2	45.5
20°-30°	822.9	19.7
30°-40°	187.5	4.5
40°-50°	64.4	1.5
50°-60°	15.7	0.4
60°-70°	4.1	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°	3909.4	93.5
0°-40°	4097.0	98.0
0°-60°	4177.1	99.9
0°-90°	4181.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4181.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13446	13446	13446	13446	13446	
5°	13010	12998	12995	13022	13011	1183
15°	7129	7043	7091	7068	7055	1909
25°	1676	1739	1889	1695	1641	802
35°	281	287	269	267	226	191
45°	74	92	92	92	75	52
55°	12	12	22	13	12	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°	13446.0	13446.0	13446.0	13446.0	13446.0
2.5°	13356.9	13347.6	13352.9	13359.5	13362.1
5°	13010.3	12997.7	12995.1	13022.2	13010.9
7.5°	12311.2	12293.4	12266.3	12327.7	12385.1
10°	11140.1	11120.3	11061.5	11090.6	11137.4
12.5°	9411.1	9347.1	9345.8	9438.2	9425.7
15°	7129.0	7043.2	7090.7	7067.6	7055.0
17.5°	4794.0	4761.0	4824.4	4805.2	4722.7
20°	3448.6	3457.2	3578.0	3517.3	3444.0
22.5°	2516.5	2547.5	2690.8	2534.3	2476.9
25°	1675.5	1738.8	1889.4	1694.6	1641.1
27.5°	1030.5	1059.5	1212.0	1017.3	988.2
30°	641.0	626.5	698.4	599.4	558.5
32.5°	420.5	402.0	425.1	381.6	348.6
35°	281.2	287.2	269.3	267.4	225.8
37.5°	175.6	202.0	178.2	190.1	145.2
40°	113.5	146.6	126.1	139.3	106.9
42.5°	93.1	112.9	103.6	110.2	95.1
45°	73.9	91.8	91.8	91.8	74.6
47.5°	40.9	61.4	78.6	62.7	43.6
50°	23.1	31.0	60.7	32.3	24.4
52.5°	15.8	17.8	41.6	18.5	16.5
55°	11.9	12.5	22.4	13.2	12.5
57.5°	9.2	9.9	11.9	9.9	9.2
60°	7.3	7.3	8.6	7.9	7.3
62.5°	5.3	5.3	5.9	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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