

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: P749916

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749916
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-EU4DR3055659035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.4 lumens
Efficiency: N/A
Efficacy: 78.0 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

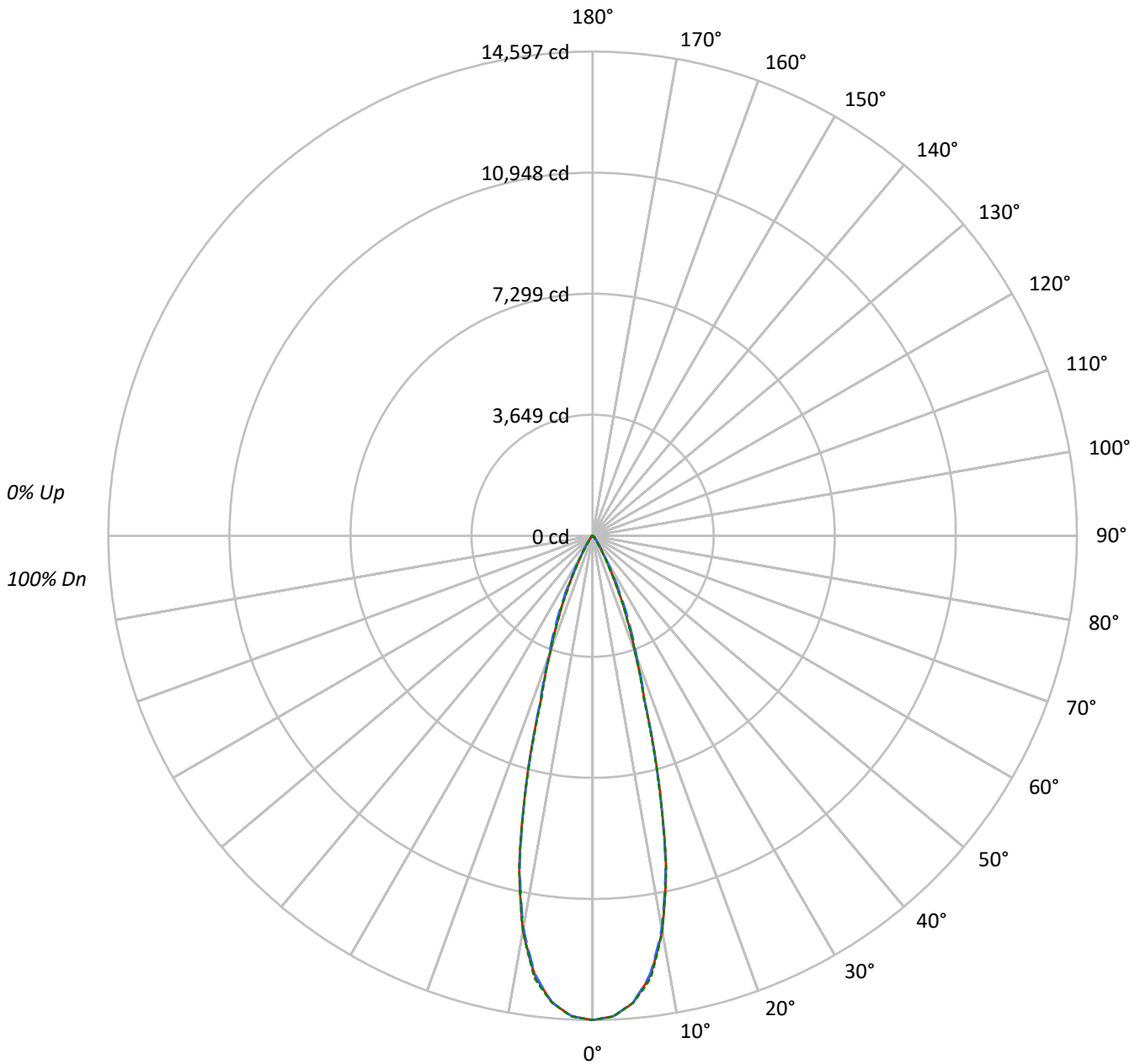
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1117273	1117273	1117273
5°	1085205	1083938	1085259
10°	939950	933320	939724
15°	613274	609977	606911
20°	304954	316391	304539
25°	153609	173220	150467
30°	61507	67013	53588
35°	28528	27323	22903
40°	12320	13679	11601
45°	8692	10782	8768
50°	2989	7847	3156
55°	1721	3256	1815
60°	1209	1424	1209
65°	779	779	779
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1283.6	28.3
10°-20°	2067.2	45.5
20°-30°	893.3	19.7
30°-40°	203.6	4.5
40°-50°	69.9	1.5
50°-60°	17.1	0.4
60°-70°	4.4	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°	4244.0	93.5
0°-40°	4447.6	98.0
0°-60°	4534.6	99.9
0°-90°	4539.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14597	14597	14597	14597	14597	
5°	14124	14110	14107	14137	14124	1285
15°	7739	7646	7698	7672	7659	2072
25°	1819	1888	2051	1840	1782	871
35°	305	312	292	290	245	207
45°	80	100	100	100	81	57
55°	13	14	24	14	14	13
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°	14596.6	14596.6	14596.6	14596.6	14596.6
2.5°	14499.9	14489.9	14495.6	14502.8	14505.6
5°	14123.7	14110.0	14107.2	14136.6	14124.4
7.5°	13364.7	13345.4	13316.0	13382.6	13445.0
10°	12093.4	12071.9	12008.1	12039.7	12090.5
12.5°	10216.5	10147.0	10145.6	10245.9	10232.3
15°	7739.1	7645.9	7697.5	7672.4	7658.8
17.5°	5204.3	5168.5	5237.2	5216.5	5126.9
20°	3743.8	3753.1	3884.2	3818.3	3738.7
22.5°	2731.9	2765.5	2921.0	2751.2	2688.9
25°	1818.8	1887.6	2051.0	1839.6	1781.6
27.5°	1118.7	1150.2	1315.8	1104.4	1072.8
30°	695.9	680.1	758.2	650.7	606.3
32.5°	456.5	436.4	461.5	414.2	378.4
35°	305.3	311.7	292.4	290.2	245.1
37.5°	190.6	219.3	193.5	206.4	157.7
40°	123.3	159.1	136.9	151.2	116.1
42.5°	101.0	122.5	112.5	119.7	103.2
45°	80.3	99.6	99.6	99.6	81.0
47.5°	44.4	66.6	85.3	68.1	47.3
50°	25.1	33.7	65.9	35.1	26.5
52.5°	17.2	19.3	45.1	20.1	17.9
55°	12.9	13.6	24.4	14.3	13.6
57.5°	10.0	10.7	12.9	10.7	10.0
60°	7.9	7.9	9.3	8.6	7.9
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.9	2.9	2.9	2.9
70°	2.1	1.4	1.4	1.4	2.1
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

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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