

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: P749873

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749873
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-EU4DR3055659024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4819.4 lumens
Efficiency: N/A
Efficacy: 82.8 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

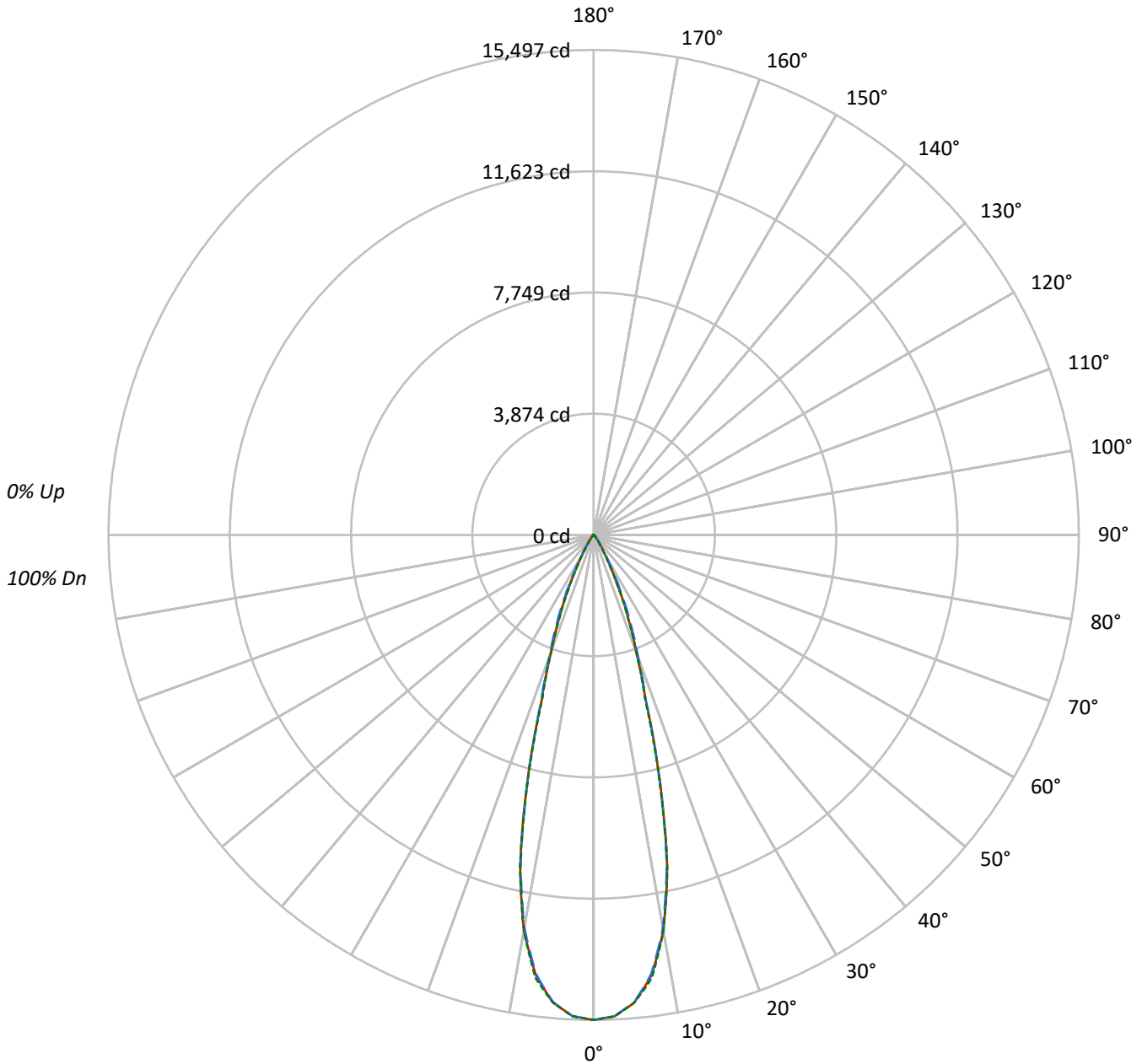
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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																			
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°	1186178	1186178	1186178
5°	1152122	1150777	1152183
10°	997917	990875	997676
15°	651089	647594	644337
20°	323754	335899	323322
25°	163085	183904	159741
30°	65299	71150	56893
35°	30285	29004	24314
40°	13080	14518	12320
45°	9223	11453	9309
50°	3168	8336	3358
55°	1828	3456	1935
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1362.7	28.3
10°-20°	2194.6	45.5
20°-30°	948.4	19.7
30°-40°	216.2	4.5
40°-50°	74.2	1.5
50°-60°	18.1	0.4
60°-70°	4.7	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°	4505.7	93.5
0°-40°	4721.9	98.0
0°-60°	4814.2	99.9
0°-90°	4819.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4819.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15497	15497	15497	15497	15497	
5°	14995	14980	14977	15008	14995	1364
15°	8216	8117	8172	8146	8131	2200
25°	1931	2004	2178	1953	1891	924
35°	324	331	310	308	260	220
45°	85	106	106	106	86	60
55°	14	14	26	15	14	13
65°	5	5	5	5	5	5
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°	15496.8	15496.8	15496.8	15496.8	15496.8
2.5°	15394.1	15383.4	15389.5	15397.1	15400.1
5°	14994.6	14980.2	14977.1	15008.3	14995.4
7.5°	14188.9	14168.3	14137.2	14207.9	14274.1
10°	12839.2	12816.3	12748.6	12782.1	12836.1
12.5°	10846.5	10772.7	10771.2	10877.7	10863.3
15°	8216.3	8117.4	8172.2	8145.5	8131.1
17.5°	5525.2	5487.2	5560.2	5538.1	5443.0
20°	3974.6	3984.5	4123.7	4053.8	3969.3
22.5°	2900.3	2936.1	3101.2	2920.9	2854.7
25°	1931.0	2004.1	2177.5	1953.1	1891.4
27.5°	1187.7	1221.1	1396.9	1172.5	1139.0
30°	738.8	722.0	805.0	690.8	643.7
32.5°	484.7	463.4	490.0	439.8	401.7
35°	324.1	331.0	310.4	308.1	260.2
37.5°	202.4	232.8	205.4	219.1	167.4
40°	130.9	168.9	145.3	160.5	123.3
42.5°	107.3	130.1	119.5	127.1	109.6
45°	85.2	105.8	105.8	105.8	86.0
47.5°	47.2	70.8	90.5	72.3	50.2
50°	26.6	35.8	70.0	37.3	28.2
52.5°	18.3	20.5	47.9	21.3	19.0
55°	13.7	14.5	25.9	15.2	14.5
57.5°	10.7	11.4	13.7	11.4	10.7
60°	8.4	8.4	9.9	9.1	8.4
62.5°	6.1	6.1	6.8	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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