

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: P749870

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749870
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-EU4DR3055659024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4807.4 lumens
Efficiency: N/A
Efficacy: 82.6 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

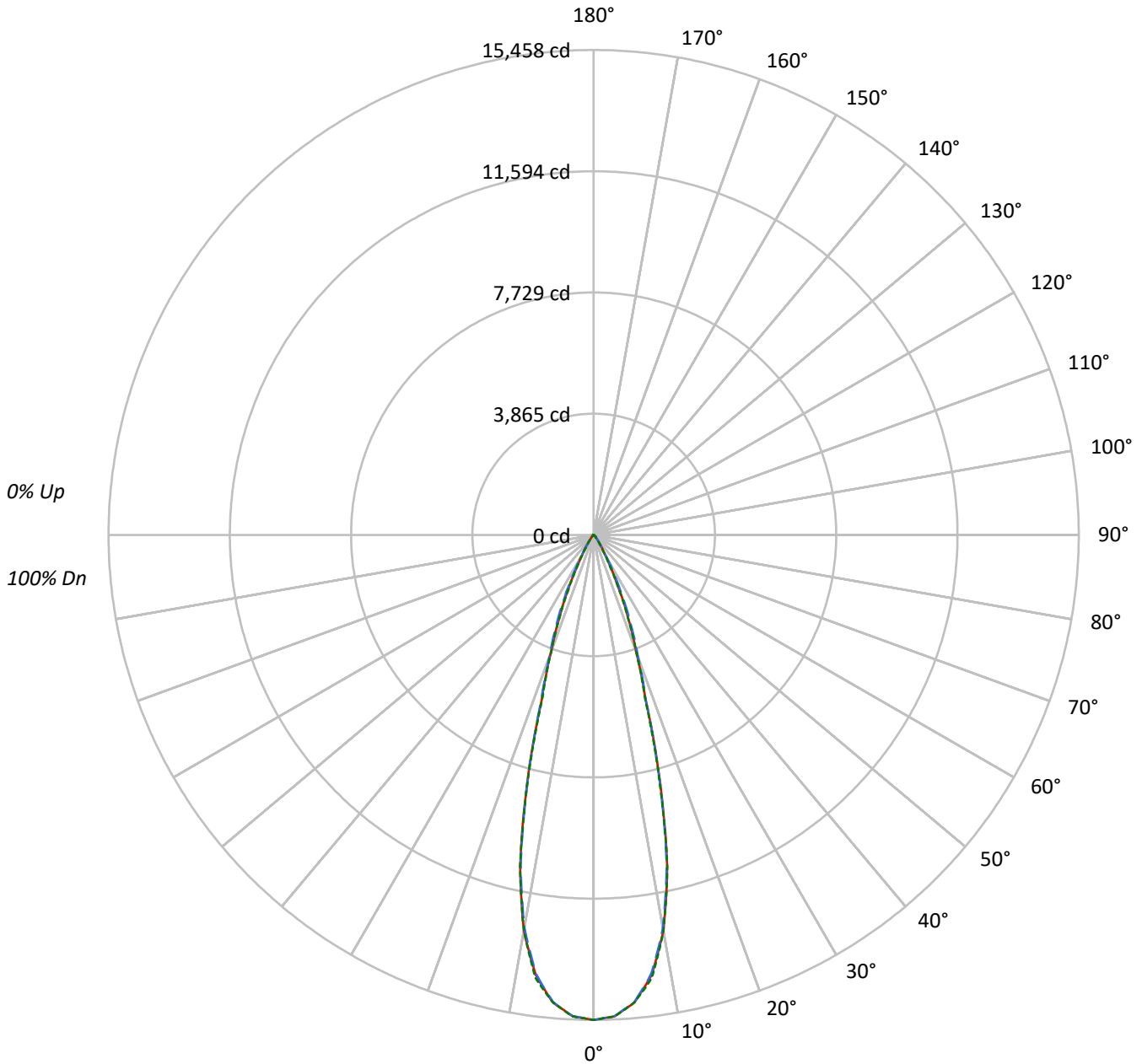
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1183208	1183208	1183208
5°	1149240	1147903	1149302
10°	995422	988403	995181
15°	649464	645970	642729
20°	322948	335060	322516
25°	162680	183448	159344
30°	65131	70973	56752
35°	30210	28930	24258
40°	13040	14488	12280
45°	9201	11420	9288
50°	3168	8312	3346
55°	1828	3443	1922
60°	1271	1516	1271
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: 11420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1359.3	28.3
10°-20°	2189.2	45.5
20°-30°	946.0	19.7
30°-40°	215.6	4.5
40°-50°	74.0	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°	4494.5	93.5
0°-40°	4710.1	98.0
0°-60°	4802.2	99.9
0°-90°	4807.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15458	15458	15458	15458	15458	
5°	14957	14943	14940	14971	14958	1360
15°	8196	8097	8152	8125	8111	2195
25°	1926	1999	2172	1948	1887	922
35°	323	330	310	307	260	219
45°	85	106	106	106	86	60
55°	14	14	26	15	14	13
65°	5	5	5	5	5	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15458.0	15458.0	15458.0	15458.0	15458.0
2.5°	15355.6	15345.0	15351.0	15358.6	15361.6
5°	14957.1	14942.7	14939.7	14970.8	14957.9
7.5°	14153.4	14132.9	14101.8	14172.4	14238.4
10°	12807.1	12784.3	12716.8	12750.1	12804.0
12.5°	10819.4	10745.8	10744.3	10850.5	10836.1
15°	8195.8	8097.1	8151.7	8125.2	8110.8
17.5°	5511.4	5473.5	5546.3	5524.3	5429.4
20°	3964.7	3974.6	4113.4	4043.6	3959.4
22.5°	2893.1	2928.7	3093.4	2913.6	2847.5
25°	1926.2	1999.0	2172.1	1948.2	1886.7
27.5°	1184.7	1218.1	1393.4	1169.5	1136.1
30°	736.9	720.2	803.0	689.1	642.1
32.5°	483.4	462.2	488.8	438.7	400.7
35°	323.3	330.1	309.6	307.4	259.6
37.5°	201.9	232.2	204.9	218.6	167.0
40°	130.5	168.5	145.0	160.1	122.9
42.5°	107.0	129.8	119.2	126.7	109.3
45°	85.0	105.5	105.5	105.5	85.8
47.5°	47.1	70.6	90.3	72.1	50.1
50°	26.6	35.7	69.8	37.2	28.1
52.5°	18.2	20.5	47.8	21.3	19.0
55°	13.7	14.4	25.8	15.2	14.4
57.5°	10.6	11.4	13.7	11.4	10.6
60°	8.3	8.3	9.9	9.1	8.3
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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