

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: P749898

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749898
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-EU4DR3055659030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5273.3 lumens
Efficiency: N/A
Efficacy: 90.6 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

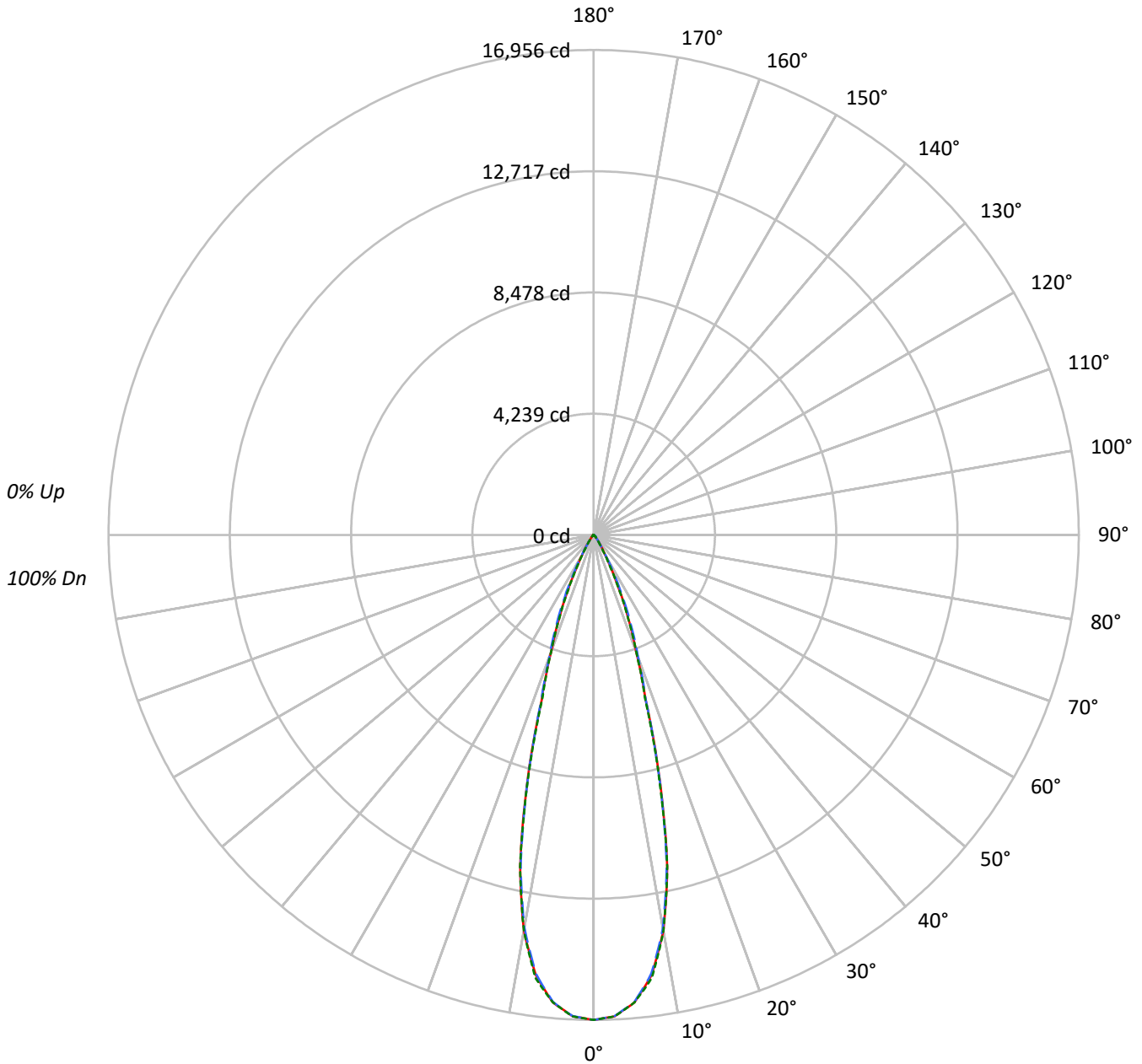
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1297870	1297870	1297870
5°	1260614	1259146	1260675
10°	1091885	1084183	1091621
15°	712400	708572	705014
20°	354243	367537	353771
25°	178439	201226	174791
30°	71441	77849	62249
35°	33135	31742	26603
40°	14309	15887	13479
45°	10089	12524	10186
50°	3465	9122	3668
55°	2002	3777	2108
60°	1408	1653	1408
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1491.0	28.3
10°-20°	2401.3	45.5
20°-30°	1037.7	19.7
30°-40°	236.5	4.5
40°-50°	81.2	1.5
50°-60°	19.8	0.4
60°-70°	5.2	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°	4930.0	93.5
0°-40°	5166.5	98.0
0°-60°	5267.6	99.9
0°-90°	5273.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5273.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16956	16956	16956	16956	16956	
5°	16407	16391	16388	16422	16407	1492
15°	8990	8882	8942	8913	8897	2407
25°	2113	2193	2383	2137	2070	1011
35°	355	362	340	337	285	241
45°	93	116	116	116	94	66
55°	15	16	28	17	16	15
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°	16956.0	16956.0	16956.0	16956.0	16956.0
2.5°	16843.7	16832.0	16838.7	16847.0	16850.3
5°	16406.6	16390.8	16387.5	16421.6	16407.4
7.5°	15525.0	15502.5	15468.4	15545.8	15618.2
10°	14048.2	14023.2	13949.1	13985.7	14044.8
12.5°	11867.9	11787.1	11785.5	11902.0	11886.2
15°	8990.0	8881.8	8941.7	8912.6	8896.8
17.5°	6045.5	6003.9	6083.8	6059.7	5955.6
20°	4348.9	4359.7	4512.1	4435.5	4343.1
22.5°	3173.4	3212.6	3393.2	3195.9	3123.5
25°	2112.8	2192.8	2382.6	2137.0	2069.6
27.5°	1299.5	1336.1	1528.4	1282.9	1246.2
30°	808.3	790.0	880.8	755.9	704.3
32.5°	530.3	507.0	536.1	481.2	439.6
35°	354.6	362.1	339.7	337.2	284.7
37.5°	221.4	254.7	224.8	239.8	183.1
40°	143.2	184.8	159.0	175.7	134.9
42.5°	117.4	142.4	130.7	139.0	119.9
45°	93.2	115.7	115.7	115.7	94.1
47.5°	51.6	77.4	99.1	79.1	54.9
50°	29.1	39.1	76.6	40.8	30.8
52.5°	20.0	22.5	52.4	23.3	20.8
55°	15.0	15.8	28.3	16.6	15.8
57.5°	11.7	12.5	15.0	12.5	11.7
60°	9.2	9.2	10.8	10.0	9.2
62.5°	6.7	6.7	7.5	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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Scaled Data Report





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

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