

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: P749937

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749937
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-EU4DR3055659050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5617.8 lumens
Efficiency: N/A
Efficacy: 96.5 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

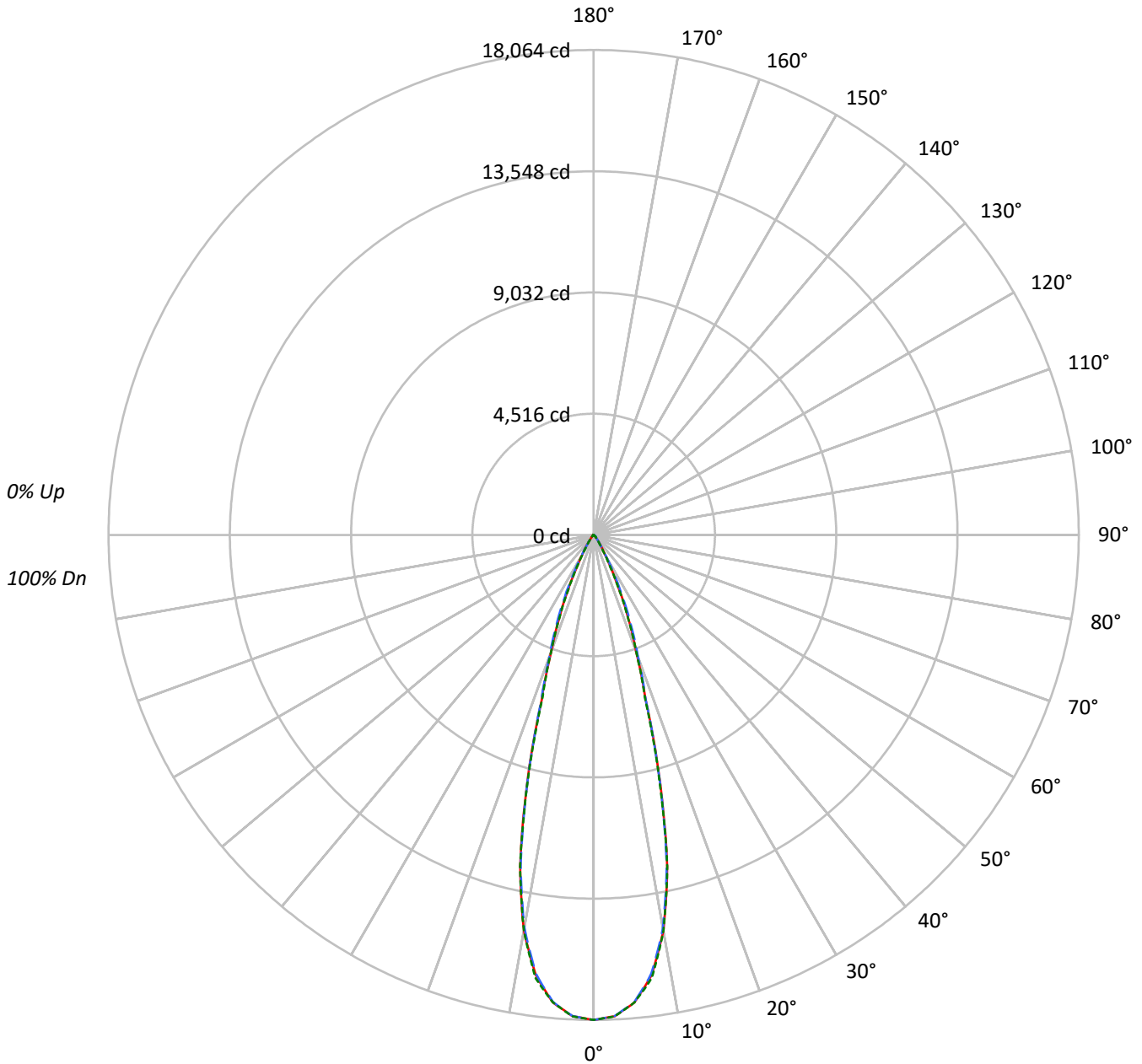
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1382665	1382665	1382665
5°	1342974	1341407	1343043
10°	1163220	1155020	1162941
15°	758939	754866	751070
20°	377385	391550	376880
25°	190103	214367	186209
30°	76117	82931	66315
35°	35302	33807	28341
40°	15238	16927	14359
45°	10749	13347	10847
50°	3691	9717	3906
55°	2135	4030	2255
60°	1500	1760	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13347 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1588.4	28.3
10°-20°	2558.2	45.5
20°-30°	1105.5	19.7
30°-40°	252.0	4.5
40°-50°	86.5	1.5
50°-60°	21.1	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5252.1	93.5
0°-40°	5504.1	98.0
0°-60°	5611.7	99.9
0°-90°	5617.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5617.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18064	18064	18064	18064	18064	
5°	17478	17462	17458	17494	17479	1590
15°	9577	9462	9526	9495	9478	2564
25°	2251	2336	2538	2277	2205	1077
35°	378	386	362	359	303	256
45°	99	123	123	123	100	70
55°	16	17	30	18	17	16
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°	18063.8	18063.8	18063.8	18063.8	18063.8
2.5°	17944.1	17931.7	17938.8	17947.7	17951.2
5°	17478.5	17461.7	17458.1	17494.5	17479.4
7.5°	16539.3	16515.4	16479.0	16561.5	16638.6
10°	14966.0	14939.4	14860.5	14899.5	14962.4
12.5°	12643.3	12557.2	12555.5	12679.6	12662.8
15°	9577.3	9462.1	9525.9	9494.9	9478.0
17.5°	6440.5	6396.1	6481.3	6455.6	6344.7
20°	4633.0	4644.6	4806.9	4725.3	4626.8
22.5°	3380.8	3422.4	3614.9	3404.7	3327.5
25°	2250.9	2336.0	2538.2	2276.6	2204.8
27.5°	1384.4	1423.4	1628.3	1366.7	1327.6
30°	861.2	841.6	938.3	805.3	750.3
32.5°	564.9	540.1	571.1	512.6	468.3
35°	377.8	385.8	361.8	359.2	303.3
37.5°	235.9	271.4	239.5	255.4	195.1
40°	152.5	196.9	169.4	187.1	143.7
42.5°	125.0	151.7	139.2	148.1	127.7
45°	99.3	123.3	123.3	123.3	100.2
47.5°	55.0	82.5	105.5	84.3	58.5
50°	31.0	41.7	81.6	43.5	32.8
52.5°	21.3	23.9	55.9	24.8	22.2
55°	16.0	16.9	30.2	17.7	16.9
57.5°	12.4	13.3	16.0	13.3	12.4
60°	9.8	9.8	11.5	10.6	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.5	3.5	3.5	3.5
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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