

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: P749924

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749924
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-EU4DR3055659040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5577.9 lumens
Efficiency: N/A
Efficacy: 95.8 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

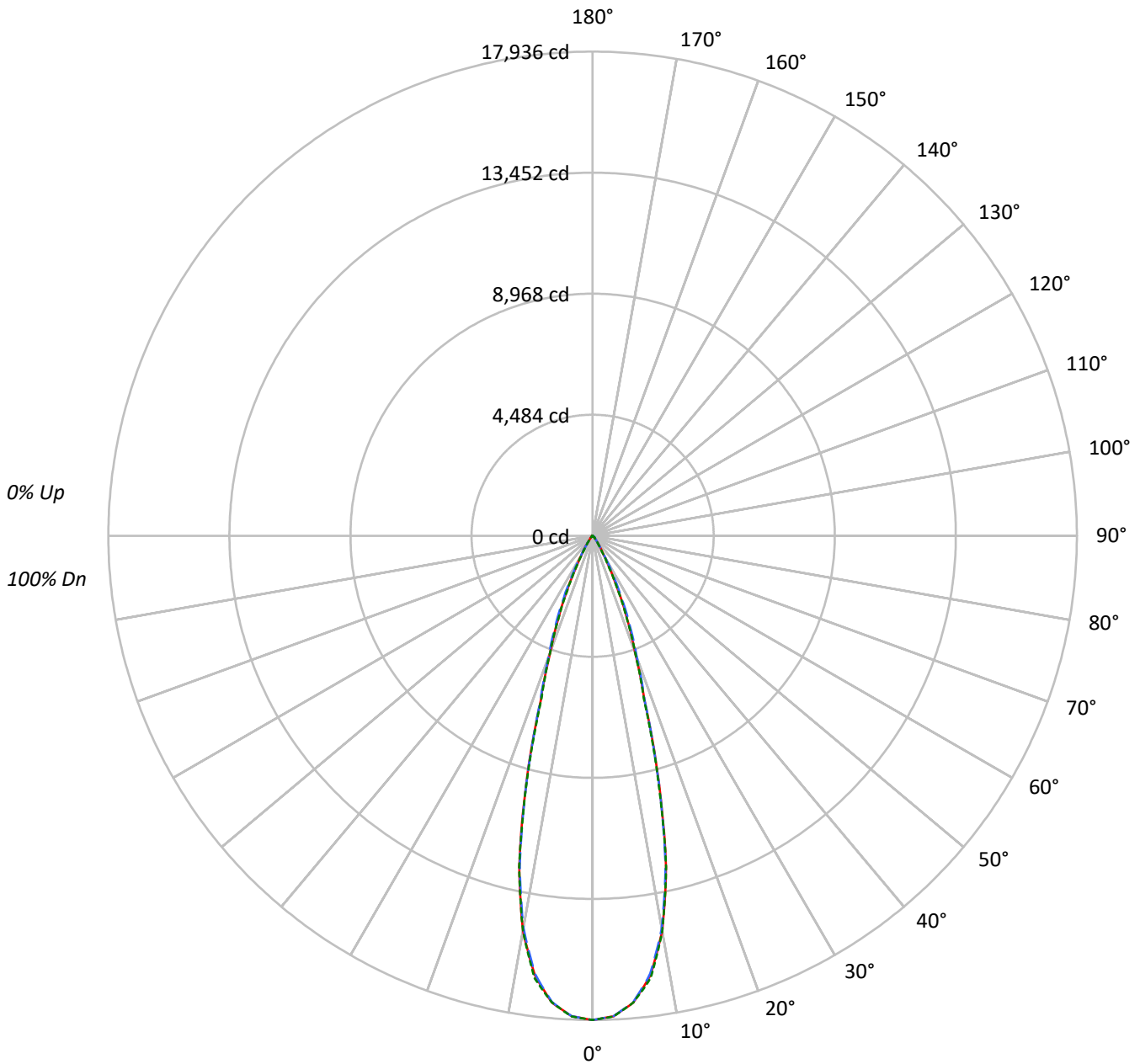
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1372859	1372859	1372859
5°	1333447	1331894	1333516
10°	1154974	1146828	1154694
15°	753559	749509	745745
20°	374713	388772	374208
25°	188751	212847	184883
30°	75569	82348	65847
35°	35050	33574	28145
40°	15138	16807	14259
45°	10673	13250	10771
50°	3668	9646	3882
55°	2122	3990	2229
60°	1485	1745	1485
65°	960	960	960
70°	582	403	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13250 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1577.2	28.3
10°-20°	2540.1	45.5
20°-30°	1097.6	19.7
30°-40°	250.2	4.5
40°-50°	85.9	1.5
50°-60°	21.0	0.4
60°-70°	5.4	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°	5214.9	93.5
0°-40°	5465.0	98.0
0°-60°	5571.9	99.9
0°-90°	5577.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5577.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17936	17936	17936	17936	17936	
5°	17354	17338	17334	17370	17355	1578
15°	9509	9395	9458	9428	9411	2546
25°	2235	2320	2520	2260	2189	1070
35°	375	383	359	357	301	254
45°	99	122	122	122	100	70
55°	16	17	30	18	17	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°	17935.7	17935.7	17935.7	17935.7	17935.7
2.5°	17816.9	17804.5	17811.6	17820.4	17823.9
5°	17354.5	17337.8	17334.3	17370.4	17355.4
7.5°	16422.0	16398.2	16362.1	16444.0	16520.6
10°	14859.9	14833.4	14755.1	14793.8	14856.3
12.5°	12553.6	12468.2	12466.4	12589.7	12573.0
15°	9509.4	9394.9	9458.3	9427.5	9410.8
17.5°	6394.8	6350.8	6435.3	6409.8	6299.7
20°	4600.2	4611.6	4772.8	4691.8	4594.0
22.5°	3356.8	3398.2	3589.3	3380.6	3304.0
25°	2234.9	2319.5	2520.2	2260.5	2189.1
27.5°	1374.6	1413.3	1616.8	1357.0	1318.2
30°	855.0	835.7	931.7	799.6	745.0
32.5°	560.9	536.3	567.1	509.0	464.9
35°	375.1	383.1	359.3	356.6	301.2
37.5°	234.2	269.5	237.8	253.6	193.7
40°	151.5	195.5	168.2	185.8	142.7
42.5°	124.2	150.6	138.3	147.1	126.8
45°	98.6	122.4	122.4	122.4	99.5
47.5°	54.6	81.9	104.8	83.7	58.1
50°	30.8	41.4	81.0	43.1	32.6
52.5°	21.1	23.8	55.5	24.7	22.0
55°	15.9	16.7	29.9	17.6	16.7
57.5°	12.3	13.2	15.9	13.2	12.3
60°	9.7	9.7	11.4	10.6	9.7
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
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

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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