

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: P749094

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749094
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: LD4D50D010-EU4DR3040509024-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 4475.8 lumens
Efficiency: N/A
Efficacy: 95.2 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

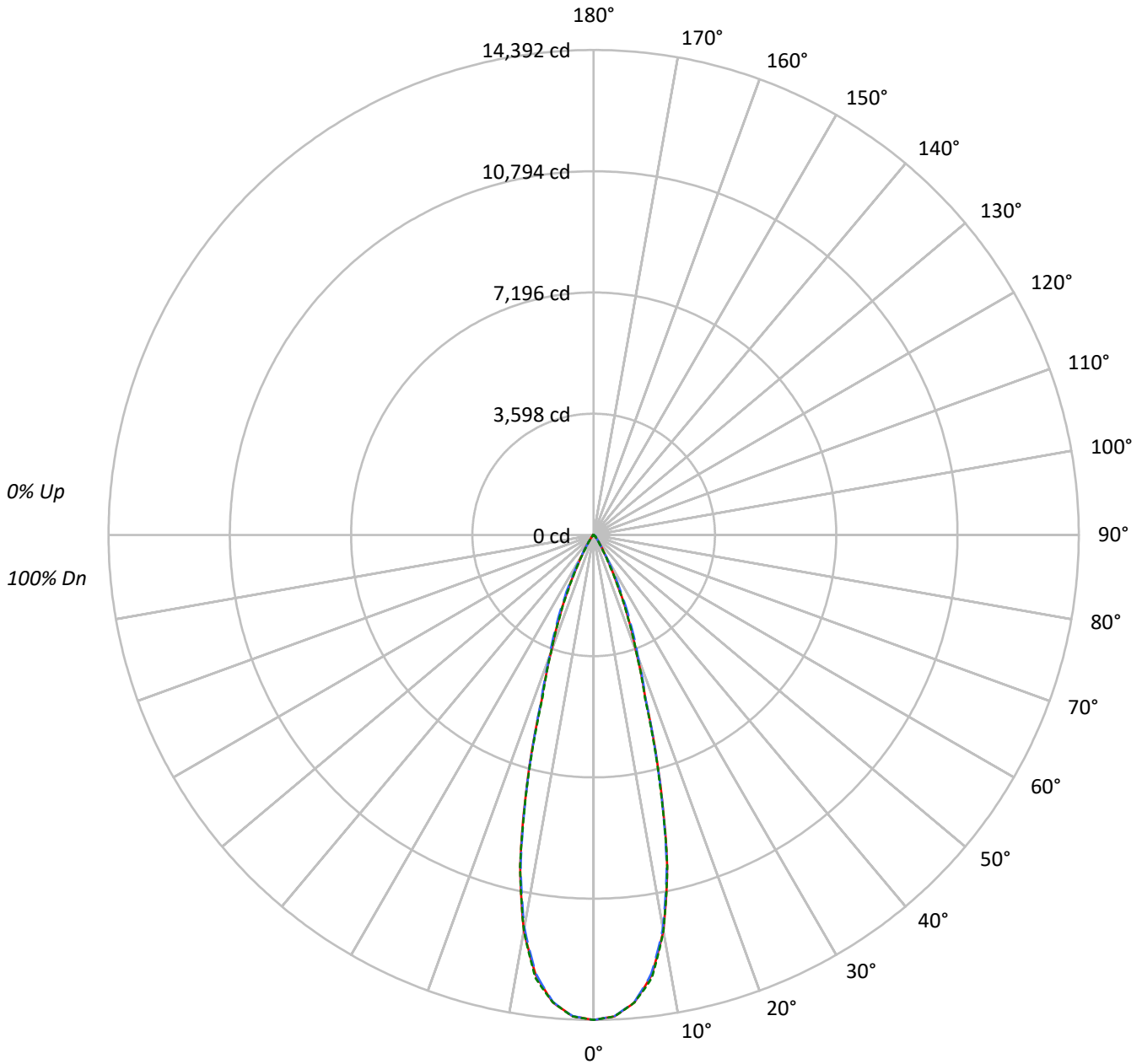
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1101613	1101613	1101613
5°	1069992	1068740	1070046
10°	926776	920239	926550
15°	604676	601427	598400
20°	300678	311959	300270
25°	151455	170796	148356
30°	60641	66076	52836
35°	28126	26939	22585
40°	12140	13489	11441
45°	8562	10630	8638
50°	2941	7740	3108
55°	1695	3203	1788
60°	1194	1408	1194
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.6	28.3
10°-20°	2038.2	45.5
20°-30°	880.8	19.7
30°-40°	200.8	4.5
40°-50°	68.9	1.5
50°-60°	16.8	0.4
60°-70°	4.4	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°	4184.5	93.5
0°-40°	4385.3	98.0
0°-60°	4471.0	99.9
0°-90°	4475.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4475.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14392	14392	14392	14392	14392	
5°	13926	13912	13909	13938	13926	1267
15°	7631	7539	7590	7565	7551	2043
25°	1793	1861	2022	1814	1757	858
35°	301	307	288	286	242	204
45°	79	98	98	98	80	56
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
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°	14392.0	14392.0	14392.0	14392.0	14392.0
2.5°	14296.6	14286.7	14292.4	14299.5	14302.3
5°	13925.7	13912.2	13909.4	13938.4	13926.4
7.5°	13177.4	13158.3	13129.3	13195.0	13256.5
10°	11923.9	11902.7	11839.8	11870.9	11921.0
12.5°	10073.3	10004.7	10003.3	10102.3	10088.8
15°	7630.6	7538.7	7589.6	7564.9	7551.4
17.5°	5131.3	5096.0	5163.8	5143.3	5055.0
20°	3691.3	3700.5	3829.8	3764.8	3686.3
22.5°	2693.6	2726.8	2880.1	2712.6	2651.2
25°	1793.3	1861.2	2022.3	1813.8	1756.6
27.5°	1103.0	1134.1	1297.3	1088.9	1057.8
30°	686.1	670.6	747.6	641.6	597.8
32.5°	450.1	430.3	455.1	408.4	373.1
35°	301.0	307.4	288.3	286.2	241.7
37.5°	188.0	216.2	190.8	203.5	155.5
40°	121.5	156.9	135.0	149.1	114.5
42.5°	99.6	120.8	110.9	118.0	101.8
45°	79.1	98.2	98.2	98.2	79.8
47.5°	43.8	65.7	84.1	67.1	46.6
50°	24.7	33.2	65.0	34.6	26.1
52.5°	17.0	19.1	44.5	19.8	17.7
55°	12.7	13.4	24.0	14.1	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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