

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: P749093

Luminaire Tested: LD4D50D010-EU4DR3040509024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749093
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-EU4DR3040509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 4262.7 lumens
Efficiency: N/A
Efficacy: 90.7 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

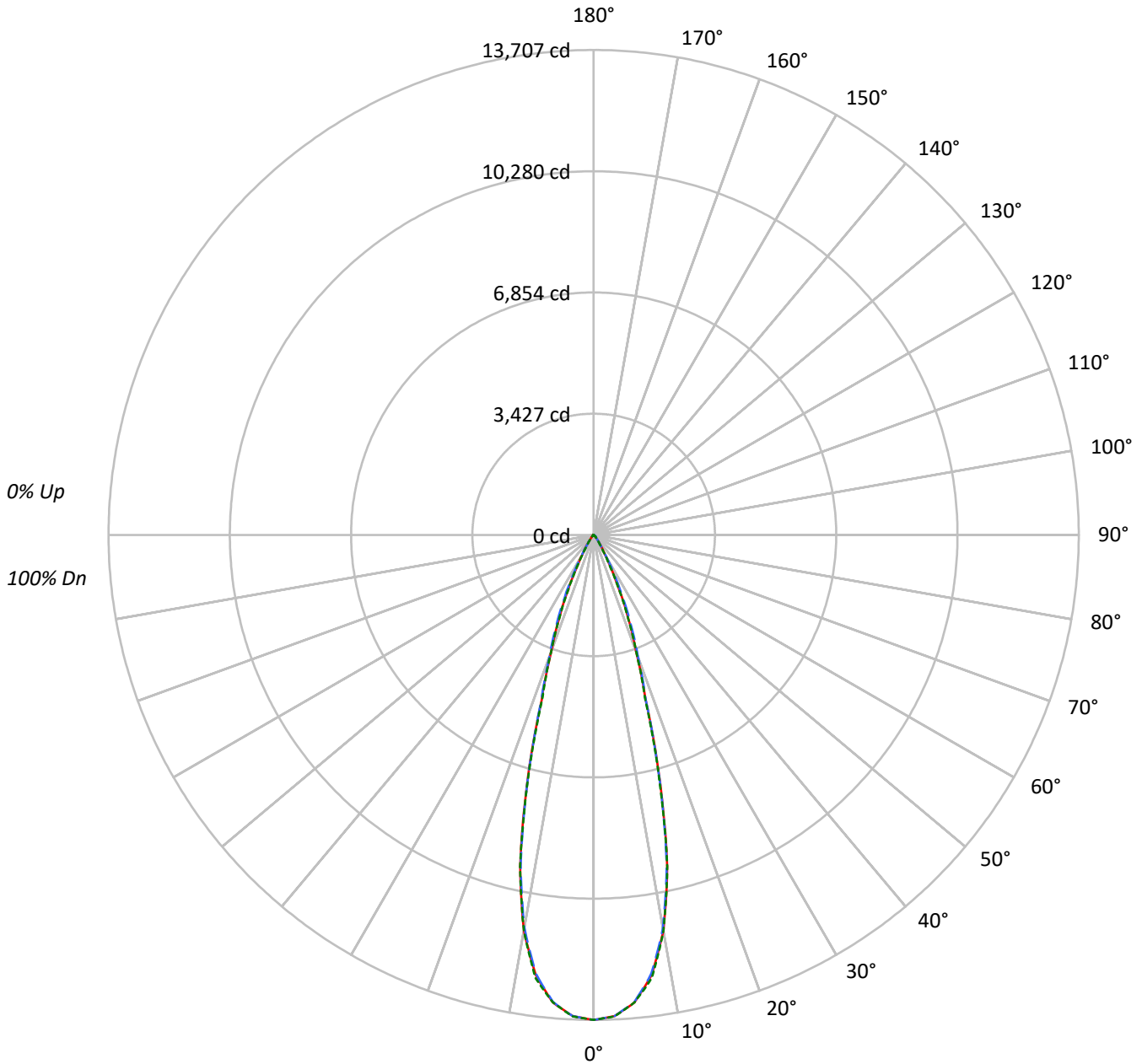
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1049157	1049157	1049157
5°	1019035	1017851	1019088
10°	882644	876418	882434
15°	575879	572788	569904
20°	286358	297102	285975
25°	144251	162663	141295
30°	57751	62930	50317
35°	26790	25659	21501
40°	11561	12840	10891
45°	8162	10121	8227
50°	2810	7371	2965
55°	1615	3056	1708
60°	1133	1332	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.3	28.3
10°-20°	1941.1	45.5
20°-30°	838.8	19.7
30°-40°	191.2	4.5
40°-50°	65.6	1.5
50°-60°	16.0	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3985.3	93.5
0°-40°	4176.4	98.0
0°-60°	4258.1	99.9
0°-90°	4262.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4262.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13707	13707	13707	13707	13707	
5°	13262	13250	13247	13275	13263	1206
15°	7267	7180	7228	7205	7192	1946
25°	1708	1773	1926	1728	1673	818
35°	287	293	275	272	230	194
45°	75	94	94	94	76	53
55°	12	13	23	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°	13706.7	13706.7	13706.7	13706.7	13706.7
2.5°	13615.8	13606.4	13611.8	13618.5	13621.2
5°	13262.5	13249.8	13247.1	13274.7	13263.2
7.5°	12549.9	12531.7	12504.1	12566.7	12625.3
10°	11356.1	11335.9	11276.0	11305.6	11353.4
12.5°	9593.6	9528.3	9527.0	9621.2	9608.4
15°	7267.2	7179.7	7228.2	7204.6	7191.8
17.5°	4887.0	4853.3	4917.9	4898.4	4814.3
20°	3515.5	3524.2	3647.4	3585.5	3510.8
22.5°	2565.3	2596.9	2743.0	2583.5	2524.9
25°	1708.0	1772.6	1926.0	1727.5	1673.0
27.5°	1050.5	1080.1	1235.5	1037.0	1007.4
30°	653.4	638.6	712.0	611.0	569.3
32.5°	428.7	409.8	433.4	389.0	355.3
35°	286.7	292.7	274.6	272.5	230.1
37.5°	179.0	205.9	181.7	193.8	148.0
40°	115.7	149.4	128.5	142.0	109.0
42.5°	94.9	115.1	105.7	112.4	96.9
45°	75.4	93.5	93.5	93.5	76.0
47.5°	41.7	62.6	80.1	63.9	44.4
50°	23.6	31.6	61.9	33.0	24.9
52.5°	16.2	18.2	42.4	18.8	16.8
55°	12.1	12.8	22.9	13.5	12.8
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.7	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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