

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: P749119

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749119
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-EU4DR3040509030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4974.7 lumens
Efficiency: N/A
Efficacy: 105.8 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

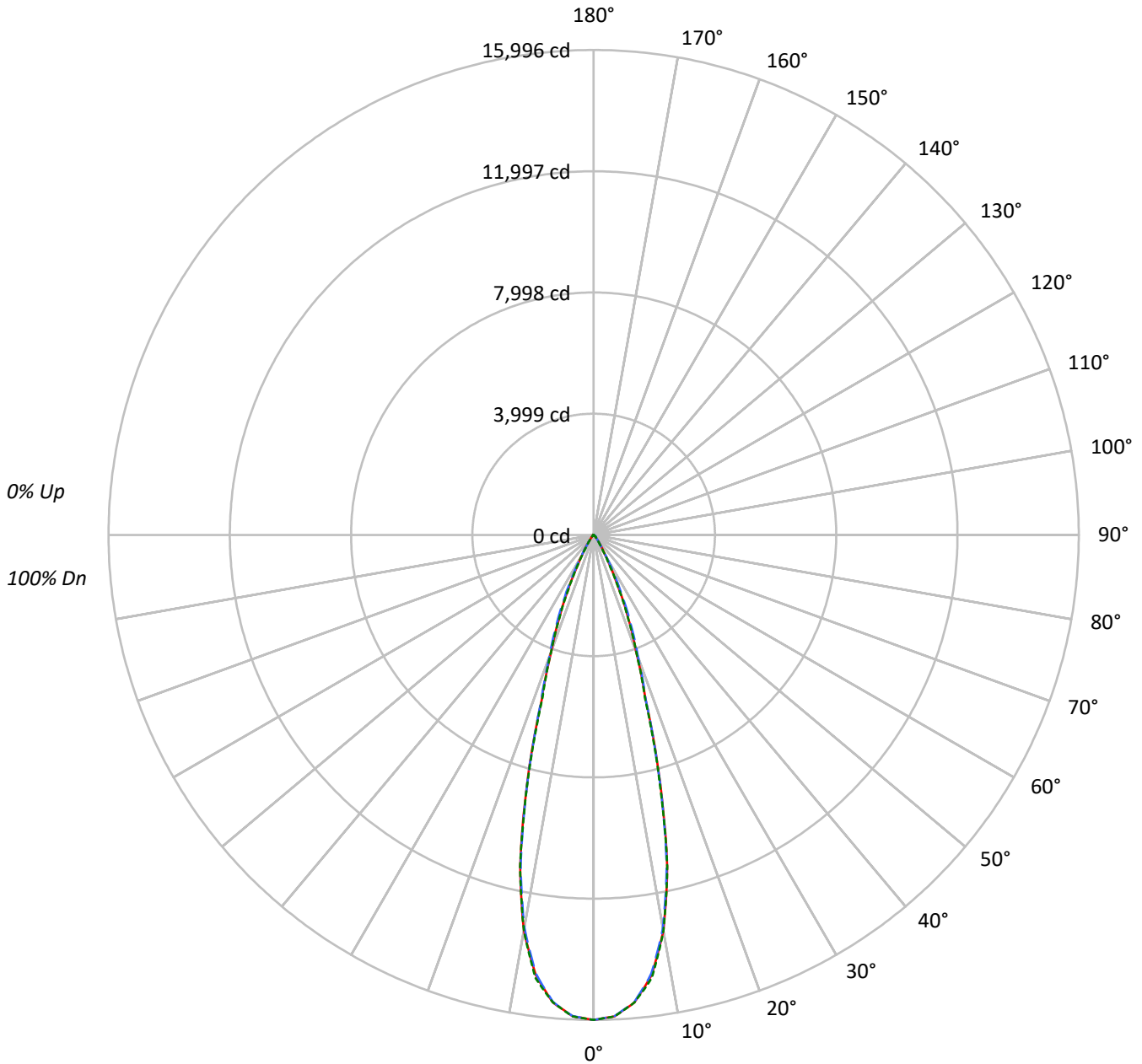
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1224381	1224381	1224381
5°	1189226	1187843	1189287
10°	1030056	1022788	1029807
15°	672057	668451	665091
20°	334180	346725	333732
25°	168338	189832	164892
30°	67402	73439	58723
35°	31266	29939	25099
40°	13499	14988	12710
45°	9526	11821	9602
50°	3275	8610	3465
55°	1882	3563	1988
60°	1317	1561	1317
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11821 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1406.6	28.3
10°-20°	2265.3	45.5
20°-30°	978.9	19.7
30°-40°	223.1	4.5
40°-50°	76.6	1.5
50°-60°	18.7	0.4
60°-70°	4.8	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°	4650.8	93.5
0°-40°	4874.0	98.0
0°-60°	4969.3	99.9
0°-90°	4974.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4974.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15996	15996	15996	15996	15996	
5°	15478	15463	15460	15492	15478	1408
15°	8481	8379	8435	8408	8393	2271
25°	1993	2069	2248	2016	1952	954
35°	335	342	320	318	269	227
45°	88	109	109	109	89	62
55°	14	15	27	16	15	14
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°	15995.9	15995.9	15995.9	15995.9	15995.9
2.5°	15889.9	15878.9	15885.1	15893.0	15896.1
5°	15477.5	15462.6	15459.5	15491.7	15478.3
7.5°	14645.9	14624.7	14592.5	14665.5	14733.8
10°	13252.7	13229.1	13159.2	13193.8	13249.5
12.5°	11195.9	11119.7	11118.1	11228.1	11213.1
15°	8480.9	8378.8	8435.4	8407.9	8393.0
17.5°	5703.2	5663.9	5739.3	5716.5	5618.3
20°	4102.6	4112.8	4256.6	4184.3	4097.1
22.5°	2993.7	3030.6	3201.1	3014.9	2946.6
25°	1993.2	2068.6	2247.7	2016.0	1952.4
27.5°	1225.9	1260.5	1441.9	1210.2	1175.7
30°	762.6	745.3	830.9	713.1	664.4
32.5°	500.3	478.3	505.8	453.9	414.7
35°	334.6	341.6	320.4	318.1	268.6
37.5°	208.9	240.3	212.0	226.2	172.8
40°	135.1	174.3	150.0	165.7	127.2
42.5°	110.7	134.3	123.3	131.2	113.1
45°	88.0	109.2	109.2	109.2	88.7
47.5°	48.7	73.0	93.5	74.6	51.8
50°	27.5	36.9	72.3	38.5	29.1
52.5°	18.8	21.2	49.5	22.0	19.6
55°	14.1	14.9	26.7	15.7	14.9
57.5°	11.0	11.8	14.1	11.8	11.0
60°	8.6	8.6	10.2	9.4	8.6
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.1	3.1	3.1	3.1
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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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