

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: P749116

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749116
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-EU4DR3040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4962.2 lumens
Efficiency: N/A
Efficacy: 105.6 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

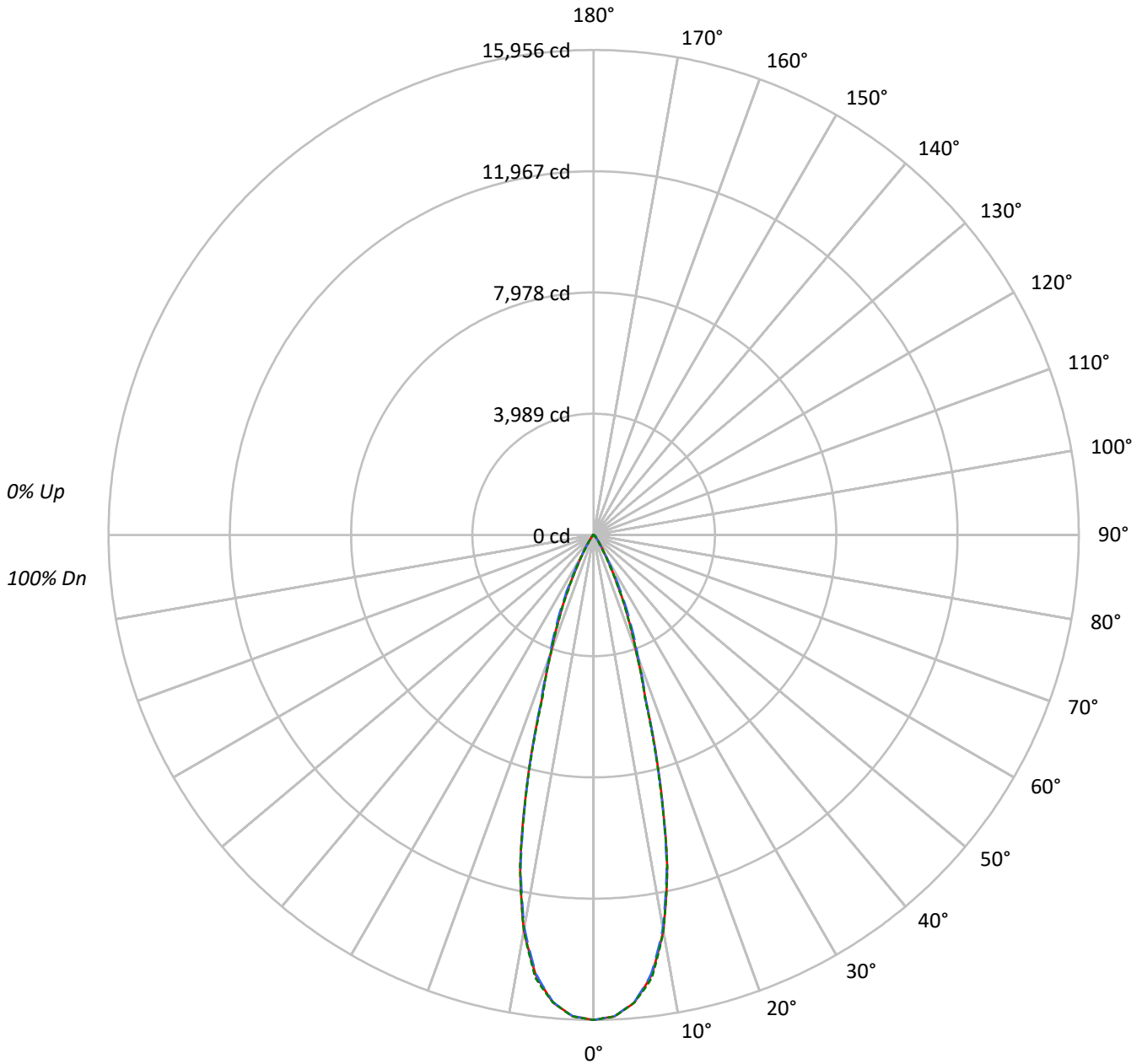
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1221319	1221319	1221319
5°	1186260	1184869	1186314
10°	1027475	1020231	1027234
15°	670377	666779	663427
20°	333350	345853	332902
25°	167916	189351	164479
30°	67234	73253	58573
35°	31182	29864	25033
40°	13459	14948	12680
45°	9493	11788	9580
50°	3263	8586	3453
55°	1882	3550	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: 11788 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1403.1	28.3
10°-20°	2259.7	45.5
20°-30°	976.5	19.7
30°-40°	222.6	4.5
40°-50°	76.4	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°	4639.2	93.5
0°-40°	4861.8	98.0
0°-60°	4956.9	99.9
0°-90°	4962.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4962.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15956	15956	15956	15956	15956	
5°	15439	15424	15421	15453	15440	1404
15°	8460	8358	8414	8387	8372	2265
25°	1988	2063	2242	2011	1948	952
35°	334	341	320	317	268	226
45°	88	109	109	109	88	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°	15955.9	15955.9	15955.9	15955.9	15955.9
2.5°	15850.1	15839.2	15845.4	15853.3	15856.4
5°	15438.9	15424.0	15420.8	15453.0	15439.6
7.5°	14609.3	14588.1	14556.0	14628.8	14697.0
10°	13219.5	13196.0	13126.3	13160.8	13216.4
12.5°	11167.9	11091.9	11090.3	11200.0	11185.1
15°	8459.7	8357.9	8414.3	8386.9	8372.0
17.5°	5688.9	5649.7	5724.9	5702.2	5604.3
20°	4092.4	4102.6	4245.9	4173.8	4086.9
22.5°	2986.2	3023.1	3193.1	3007.4	2939.2
25°	1988.2	2063.4	2242.0	2010.9	1947.5
27.5°	1222.9	1257.3	1438.3	1207.2	1172.7
30°	760.7	743.4	828.8	711.3	662.7
32.5°	499.0	477.1	504.5	452.8	413.6
35°	333.7	340.8	319.6	317.3	267.9
37.5°	208.4	239.7	211.5	225.6	172.3
40°	134.7	173.9	149.6	165.3	126.9
42.5°	110.5	134.0	123.0	130.8	112.8
45°	87.7	108.9	108.9	108.9	88.5
47.5°	48.6	72.9	93.2	74.4	51.7
50°	27.4	36.8	72.1	38.4	29.0
52.5°	18.8	21.2	49.4	21.9	19.6
55°	14.1	14.9	26.6	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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