

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: P749145

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749145
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-EU4DR3040509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5262.1 lumens
Efficiency: N/A
Efficacy: 112.0 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

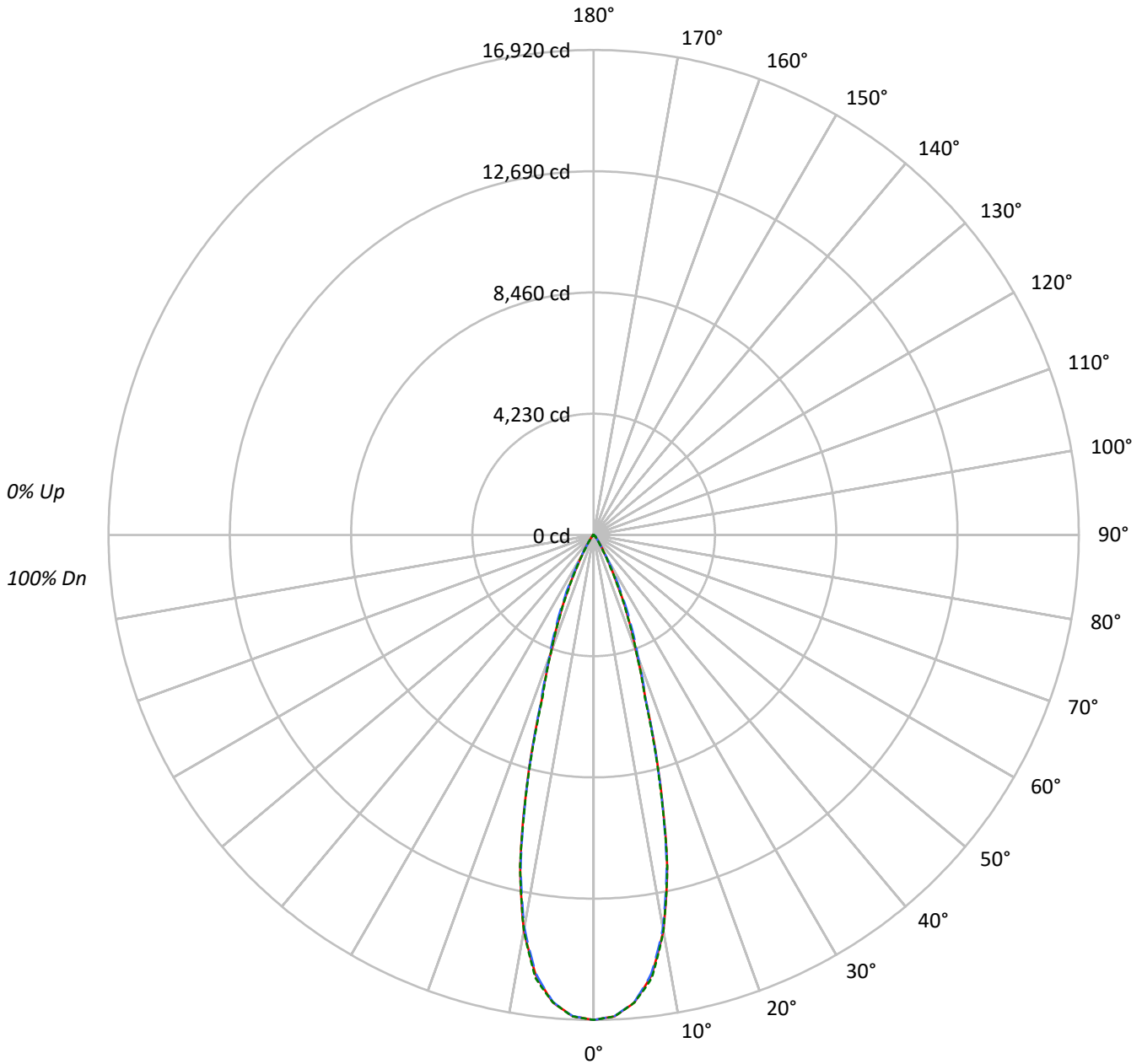
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1295122	1295122	1295122
5°	1257940	1256472	1258001
10°	1089569	1081882	1089312
15°	710886	707066	703516
20°	353494	366755	353021
25°	178068	200795	174419
30°	71291	77681	62117
35°	33069	31668	26547
40°	14279	15857	13449
45°	10067	12503	10165
50°	3465	9098	3656
55°	2002	3763	2108
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12503 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1487.9	28.3
10°-20°	2396.2	45.5
20°-30°	1035.5	19.7
30°-40°	236.0	4.5
40°-50°	81.0	1.5
50°-60°	19.8	0.4
60°-70°	5.1	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°	4919.6	93.5
0°-40°	5155.6	98.0
0°-60°	5256.4	99.9
0°-90°	5262.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5262.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16920	16920	16920	16920	16920	
5°	16372	16356	16353	16387	16373	1489
15°	8971	8863	8923	8894	8878	2402
25°	2108	2188	2378	2132	2065	1009
35°	354	361	339	336	284	240
45°	93	116	116	116	94	66
55°	15	16	28	17	16	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°	16920.1	16920.1	16920.1	16920.1	16920.1
2.5°	16807.9	16796.3	16802.9	16811.3	16814.6
5°	16371.8	16356.0	16352.7	16386.8	16372.6
7.5°	15492.1	15469.6	15435.6	15512.8	15585.1
10°	14018.4	13993.5	13919.5	13956.1	14015.1
12.5°	11842.7	11762.1	11760.5	11876.8	11861.0
15°	8970.9	8862.9	8922.7	8893.7	8877.9
17.5°	6032.7	5991.1	6070.9	6046.8	5943.0
20°	4339.7	4350.5	4502.5	4426.1	4333.9
22.5°	3166.7	3205.7	3386.0	3189.1	3116.9
25°	2108.4	2188.1	2377.5	2132.5	2065.2
27.5°	1296.8	1333.3	1525.2	1280.1	1243.6
30°	806.6	788.4	878.9	754.3	702.8
32.5°	529.2	505.9	535.0	480.2	438.6
35°	353.9	361.4	338.9	336.4	284.1
37.5°	221.0	254.2	224.3	239.2	182.8
40°	142.9	184.4	158.7	175.3	134.6
42.5°	117.1	142.1	130.4	138.7	119.6
45°	93.0	115.5	115.5	115.5	93.9
47.5°	51.5	77.3	98.9	78.9	54.8
50°	29.1	39.0	76.4	40.7	30.7
52.5°	19.9	22.4	52.3	23.3	20.8
55°	15.0	15.8	28.2	16.6	15.8
57.5°	11.6	12.5	15.0	12.5	11.6
60°	9.1	9.1	10.8	10.0	9.1
62.5°	6.6	6.6	7.5	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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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