

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: P749102

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749102
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-EU4DR3040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4587.3 lumens
Efficiency: N/A
Efficacy: 97.6 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

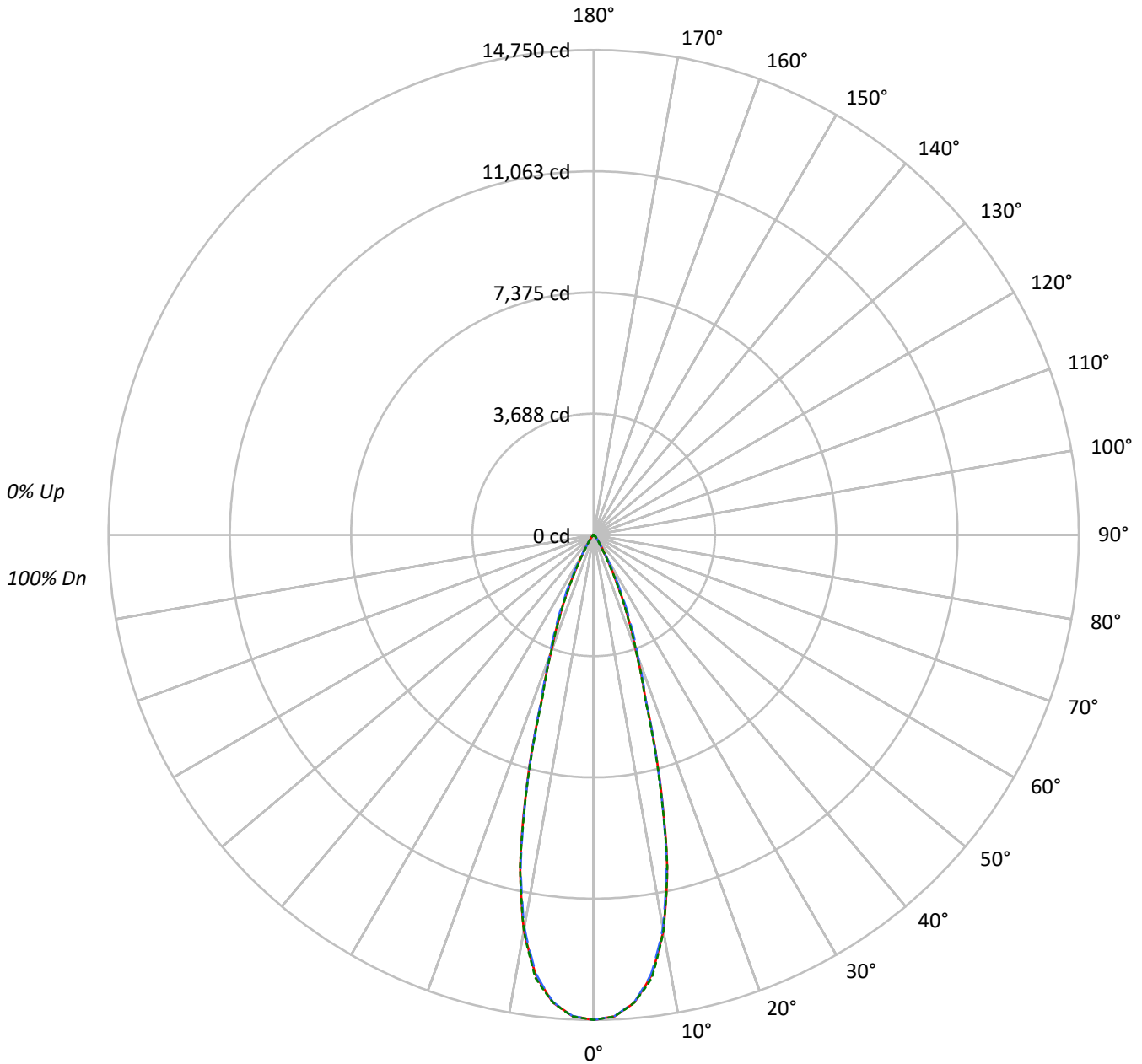
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1129038	1129038	1129038
5°	1096631	1095348	1096685
10°	949844	943144	949619
15°	619724	616396	613298
20°	308164	319722	307748
25°	155231	175044	152047
30°	62152	67720	54153
35°	28827	27612	23146
40°	12450	13819	11721
45°	8779	10901	8855
50°	3013	7931	3191
55°	1735	3283	1842
60°	1225	1439	1225
65°	779	779	779
70°	492	313	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10901 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1297.1	28.3
10°-20°	2088.9	45.5
20°-30°	902.7	19.7
30°-40°	205.7	4.5
40°-50°	70.6	1.5
50°-60°	17.3	0.4
60°-70°	4.5	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°	4288.7	93.5
0°-40°	4494.4	98.0
0°-60°	4582.3	99.9
0°-90°	4587.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4587.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14750	14750	14750	14750	14750	
5°	14272	14259	14256	14285	14273	1298
15°	7820	7726	7778	7753	7739	2094
25°	1838	1908	2073	1859	1800	880
35°	308	315	296	293	248	209
45°	81	101	101	101	82	58
55°	13	14	25	14	14	13
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°	14750.3	14750.3	14750.3	14750.3	14750.3
2.5°	14652.6	14642.4	14648.2	14655.5	14658.4
5°	14272.4	14258.6	14255.7	14285.4	14273.1
7.5°	13505.4	13485.9	13456.2	13523.5	13586.6
10°	12220.7	12199.0	12134.5	12166.4	12217.8
12.5°	10324.1	10253.8	10252.4	10353.8	10340.0
15°	7820.5	7726.4	7778.5	7753.2	7739.4
17.5°	5259.1	5222.9	5292.4	5271.4	5180.9
20°	3783.2	3792.6	3925.1	3858.5	3778.1
22.5°	2760.6	2794.7	2951.8	2780.2	2717.2
25°	1838.0	1907.5	2072.6	1859.0	1800.3
27.5°	1130.5	1162.3	1329.6	1116.0	1084.1
30°	703.2	687.3	766.2	657.6	612.7
32.5°	461.3	441.0	466.4	418.6	382.4
35°	308.5	315.0	295.5	293.3	247.7
37.5°	192.6	221.6	195.5	208.6	159.3
40°	124.6	160.8	138.3	152.8	117.3
42.5°	102.1	123.8	113.7	120.9	104.3
45°	81.1	100.7	100.7	100.7	81.8
47.5°	44.9	67.3	86.2	68.8	47.8
50°	25.3	34.0	66.6	35.5	26.8
52.5°	17.4	19.6	45.6	20.3	18.1
55°	13.0	13.8	24.6	14.5	13.8
57.5°	10.1	10.9	13.0	10.9	10.1
60°	8.0	8.0	9.4	8.7	8.0
62.5°	5.8	5.8	6.5	5.8	5.8
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.4	1.4	1.4	2.2
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

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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