

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: P744123

Luminaire Tested: LD4D20D010-EU4DR3020359030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744123
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: LD4D20D010-EU4DR3020359030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1800.7 lumens
Efficiency: N/A
Efficacy: 78.0 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): 23.1
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

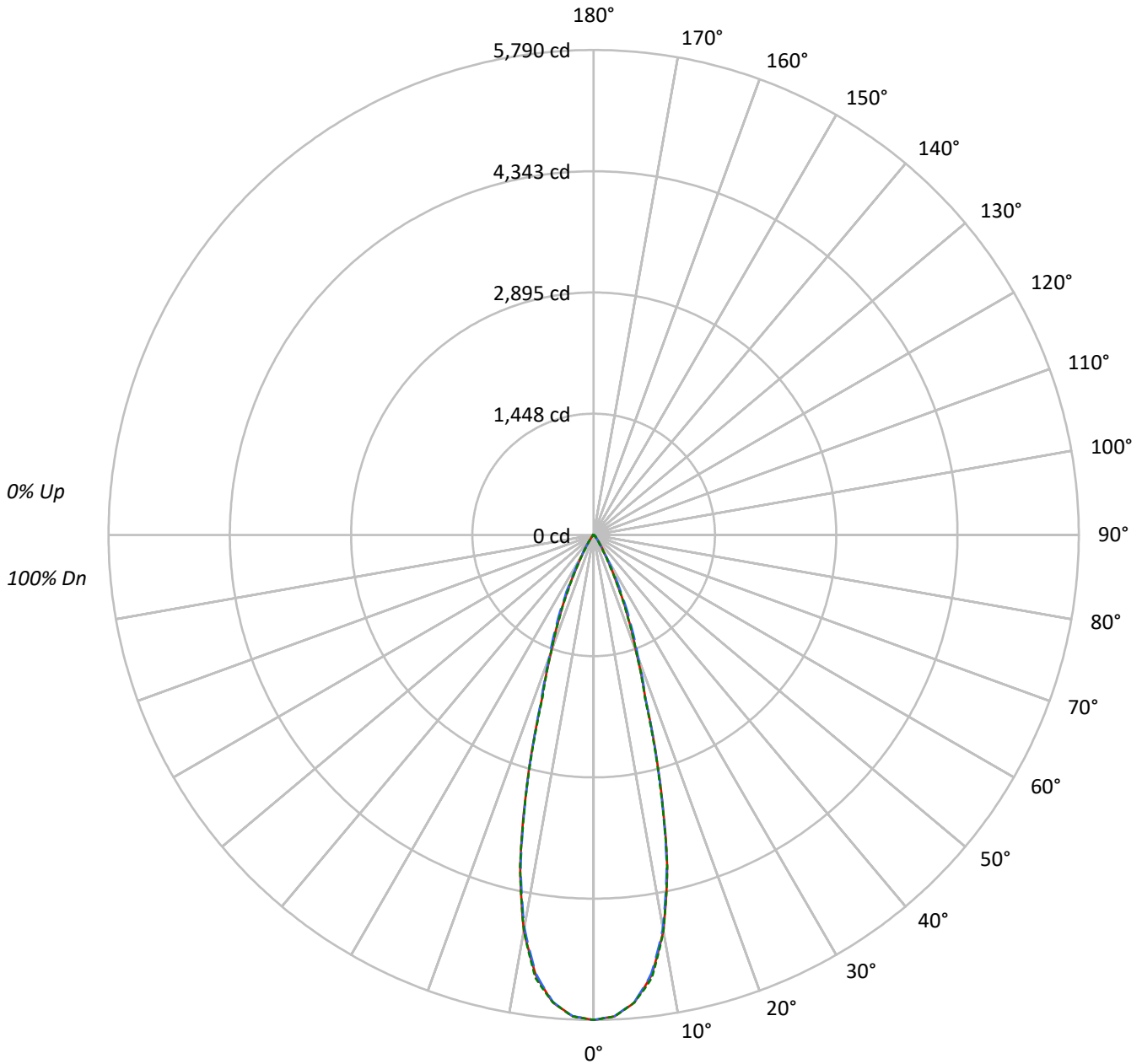


Downlight



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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°	443194	443194	443194
5°	430465	429965	430488
10°	372851	370224	372757
15°	243270	241962	240742
20°	120962	125507	120799
25°	60935	68714	59685
30°	24394	26577	21257
35°	11316	10839	9083
40°	4886	5426	4606
45°	3453	4276	3475
50°	1191	3108	1250
55°	681	1294	721
60°	490	566	490
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4276 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	28.3
10°-20°	820.0	45.5
20°-30°	354.3	19.7
30°-40°	80.8	4.5
40°-50°	27.7	1.5
50°-60°	6.8	0.4
60°-70°	1.8	0.1
70°-80°	0.2	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°	1683.5	93.5
0°-40°	1764.2	98.0
0°-60°	1798.7	99.9
0°-90°	1800.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5790	5790	5790	5790	5790	
5°	5602	5597	5596	5608	5603	510
15°	3070	3033	3053	3043	3038	822
25°	722	749	814	730	707	345
35°	121	124	116	115	97	82
45°	32	40	40	40	32	23
55°	5	5	10	6	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5790.1	5790.1	5790.1	5790.1	5790.1
2.5°	5751.7	5747.7	5750.0	5752.8	5754.0
5°	5602.4	5597.0	5595.9	5607.6	5602.7
7.5°	5301.4	5293.7	5282.1	5308.5	5333.3
10°	4797.1	4788.6	4763.3	4775.8	4795.9
12.5°	4052.6	4025.0	4024.5	4064.2	4058.8
15°	3069.9	3032.9	3053.4	3043.4	3038.0
17.5°	2064.4	2050.2	2077.5	2069.2	2033.7
20°	1485.0	1488.8	1540.8	1514.6	1483.0
22.5°	1083.6	1097.0	1158.7	1091.3	1066.6
25°	721.5	748.8	813.6	729.7	706.7
27.5°	443.8	456.2	521.9	438.1	425.5
30°	276.0	269.8	300.7	258.1	240.5
32.5°	181.1	173.1	183.1	164.3	150.1
35°	121.1	123.6	116.0	115.1	97.2
37.5°	75.6	87.0	76.8	81.9	62.6
40°	48.9	63.1	54.3	60.0	46.1
42.5°	40.1	48.6	44.6	47.5	40.9
45°	31.9	39.5	39.5	39.5	32.1
47.5°	17.6	26.4	33.8	27.0	18.7
50°	10.0	13.3	26.1	13.9	10.5
52.5°	6.8	7.7	17.9	8.0	7.1
55°	5.1	5.4	9.7	5.7	5.4
57.5°	4.0	4.2	5.1	4.2	4.0
60°	3.2	3.2	3.7	3.4	3.2
62.5°	2.3	2.3	2.6	2.3	2.3
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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