

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: P742101

Luminaire Tested: LD4D10D010-EU4DR300210IC9024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742101
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: LD4D10D010-EU4DR300210IC9024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 851.4 lumens
Efficiency: N/A
Efficacy: 72.8 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): 11.7
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

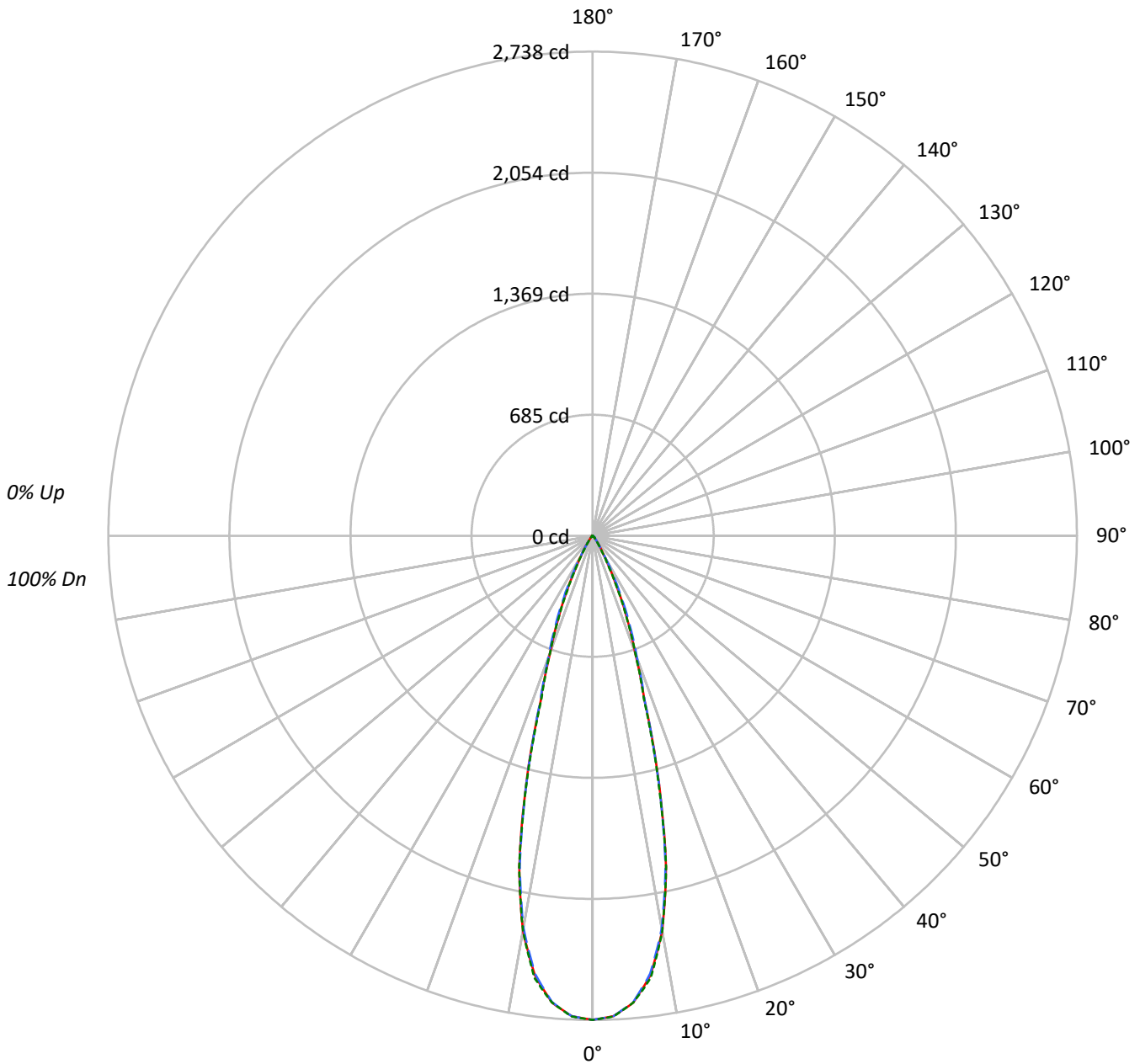


Downlight



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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°	209553	209553	209553
5°	203538	203300	203553
10°	176294	175050	176255
15°	115022	114404	113825
20°	57198	59341	57117
25°	28808	32490	28217
30°	11534	12568	10049
35°	5345	5121	4298
40°	2308	2568	2178
45°	1635	2024	1645
50°	560	1477	595
55°	320	614	347
60°	230	260	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	28.3
10°-20°	387.7	45.5
20°-30°	167.5	19.7
30°-40°	38.2	4.5
40°-50°	13.1	1.5
50°-60°	3.2	0.4
60°-70°	0.8	0.1
70°-80°	0.1	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°	796.0	93.5
0°-40°	834.2	98.0
0°-60°	850.5	99.9
0°-90°	851.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2649	2646	2646	2651	2649	241
15°	1452	1434	1444	1439	1436	389
25°	341	354	385	345	334	163
35°	57	58	55	54	46	39
45°	15	19	19	19	15	11
55°	2	3	5	3	3	2
65°	1	1	1	1	1	1
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°	2737.7	2737.7	2737.7	2737.7	2737.7
2.5°	2719.6	2717.7	2718.8	2720.1	2720.7
5°	2649.0	2646.5	2645.9	2651.4	2649.2
7.5°	2506.7	2503.1	2497.5	2510.0	2521.7
10°	2268.2	2264.2	2252.2	2258.1	2267.7
12.5°	1916.2	1903.2	1902.9	1921.7	1919.2
15°	1451.5	1434.0	1443.7	1439.0	1436.4
17.5°	976.1	969.4	982.3	978.4	961.6
20°	702.2	703.9	728.5	716.1	701.2
22.5°	512.4	518.7	547.9	516.0	504.3
25°	341.1	354.0	384.7	345.0	334.1
27.5°	209.8	215.7	246.8	207.1	201.2
30°	130.5	127.5	142.2	122.0	113.7
32.5°	85.6	81.9	86.6	77.7	71.0
35°	57.2	58.4	54.8	54.4	46.0
37.5°	35.8	41.1	36.3	38.7	29.6
40°	23.1	29.9	25.7	28.4	21.8
42.5°	19.0	23.0	21.1	22.5	19.4
45°	15.1	18.7	18.7	18.7	15.2
47.5°	8.3	12.5	16.0	12.8	8.9
50°	4.7	6.3	12.4	6.6	5.0
52.5°	3.2	3.6	8.5	3.8	3.4
55°	2.4	2.6	4.6	2.7	2.6
57.5°	1.9	2.0	2.4	2.0	1.9
60°	1.5	1.5	1.7	1.6	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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