

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: P742167

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742167
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-EU4DR300210IC9050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098.5 lumens
Efficiency: N/A
Efficacy: 93.9 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



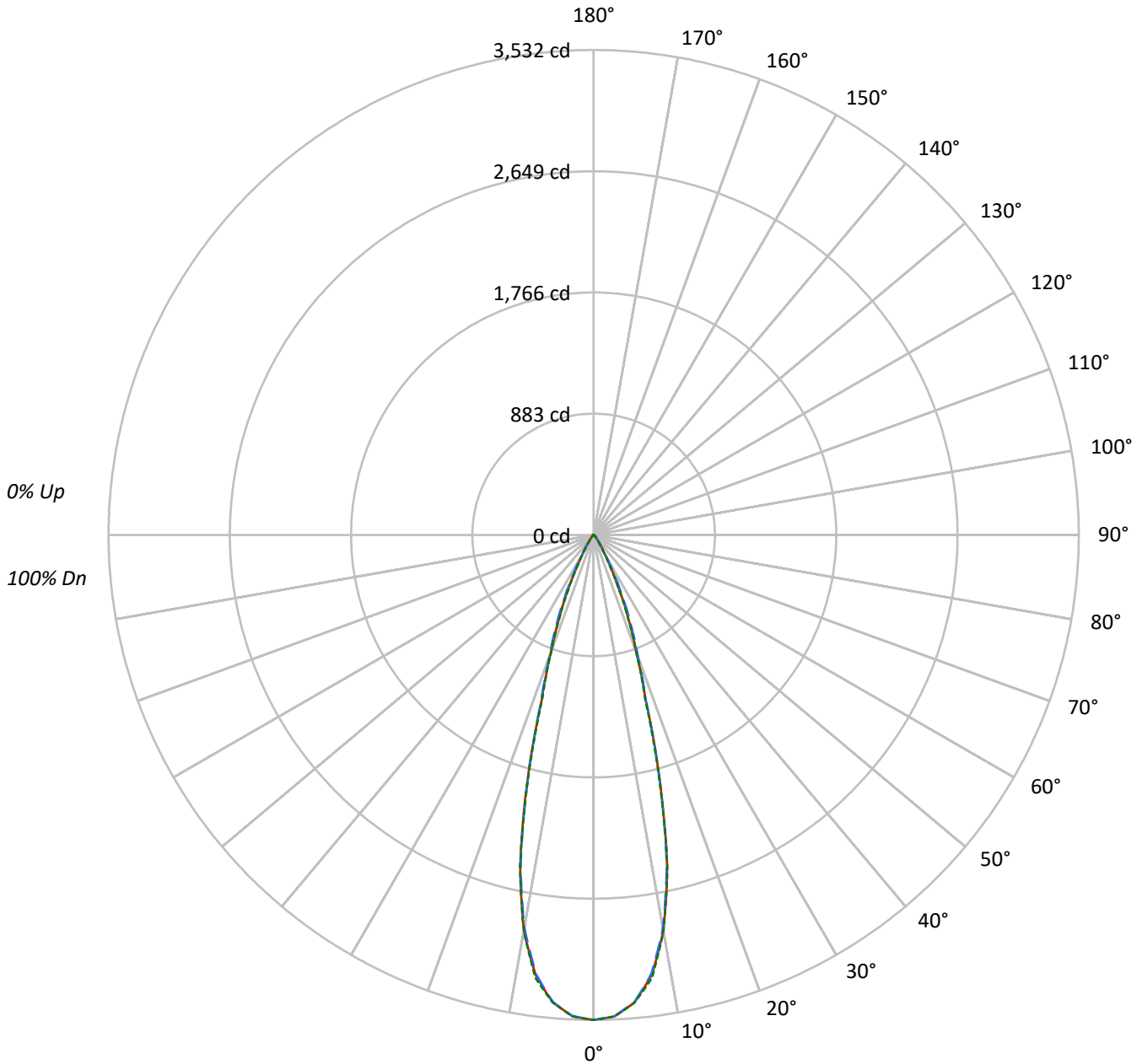
Downlight



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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°	270382	270382	270382
5°	262617	262310	262632
10°	227468	225859	227413
15°	148415	147615	146870
20°	73799	76568	73701
25°	37169	41916	36409
30°	14884	16219	12966
35°	6905	6616	5541
40°	2988	3307	2808
45°	2100	2609	2122
50°	726	1893	762
55°	414	787	440
60°	291	337	291
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2609 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	28.3
10°-20°	500.3	45.5
20°-30°	216.2	19.7
30°-40°	49.3	4.5
40°-50°	16.9	1.5
50°-60°	4.1	0.4
60°-70°	1.1	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°	1027.0	93.5
0°-40°	1076.3	98.0
0°-60°	1097.4	99.9
0°-90°	1098.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3532	3532	3532	3532	3532	
5°	3418	3415	3414	3421	3418	311
15°	1873	1850	1863	1857	1853	501
25°	440	457	496	445	431	211
35°	74	76	71	70	59	50
45°	19	24	24	24	20	14
55°	3	3	6	4	3	3
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°	3532.4	3532.4	3532.4	3532.4	3532.4
2.5°	3509.0	3506.6	3507.9	3509.7	3510.4
5°	3417.9	3414.6	3413.9	3421.0	3418.1
7.5°	3234.3	3229.6	3222.4	3238.6	3253.7
10°	2926.6	2921.4	2905.9	2913.6	2925.9
12.5°	2472.4	2455.6	2455.2	2479.5	2476.2
15°	1872.9	1850.3	1862.8	1856.7	1853.4
17.5°	1259.5	1250.8	1267.4	1262.4	1240.7
20°	906.0	908.2	940.0	924.0	904.8
22.5°	661.1	669.3	706.9	665.8	650.7
25°	440.1	456.8	496.3	445.2	431.1
27.5°	270.7	278.3	318.4	267.3	259.6
30°	168.4	164.6	183.5	157.4	146.7
32.5°	110.5	105.6	111.7	100.3	91.6
35°	73.9	75.5	70.8	70.2	59.3
37.5°	46.1	53.1	46.8	50.0	38.2
40°	29.9	38.5	33.1	36.6	28.1
42.5°	24.5	29.7	27.2	28.9	25.0
45°	19.4	24.1	24.1	24.1	19.6
47.5°	10.8	16.2	20.6	16.5	11.5
50°	6.1	8.1	15.9	8.5	6.4
52.5°	4.2	4.7	10.9	4.9	4.4
55°	3.1	3.3	5.9	3.5	3.3
57.5°	2.4	2.6	3.1	2.6	2.4
60°	1.9	1.9	2.2	2.1	1.9
62.5°	1.4	1.4	1.5	1.4	1.4
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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