

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: P741879

Luminaire Tested: LD4D10D010-EU4DR150210IC9027-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR150210IC9027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 913.5 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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



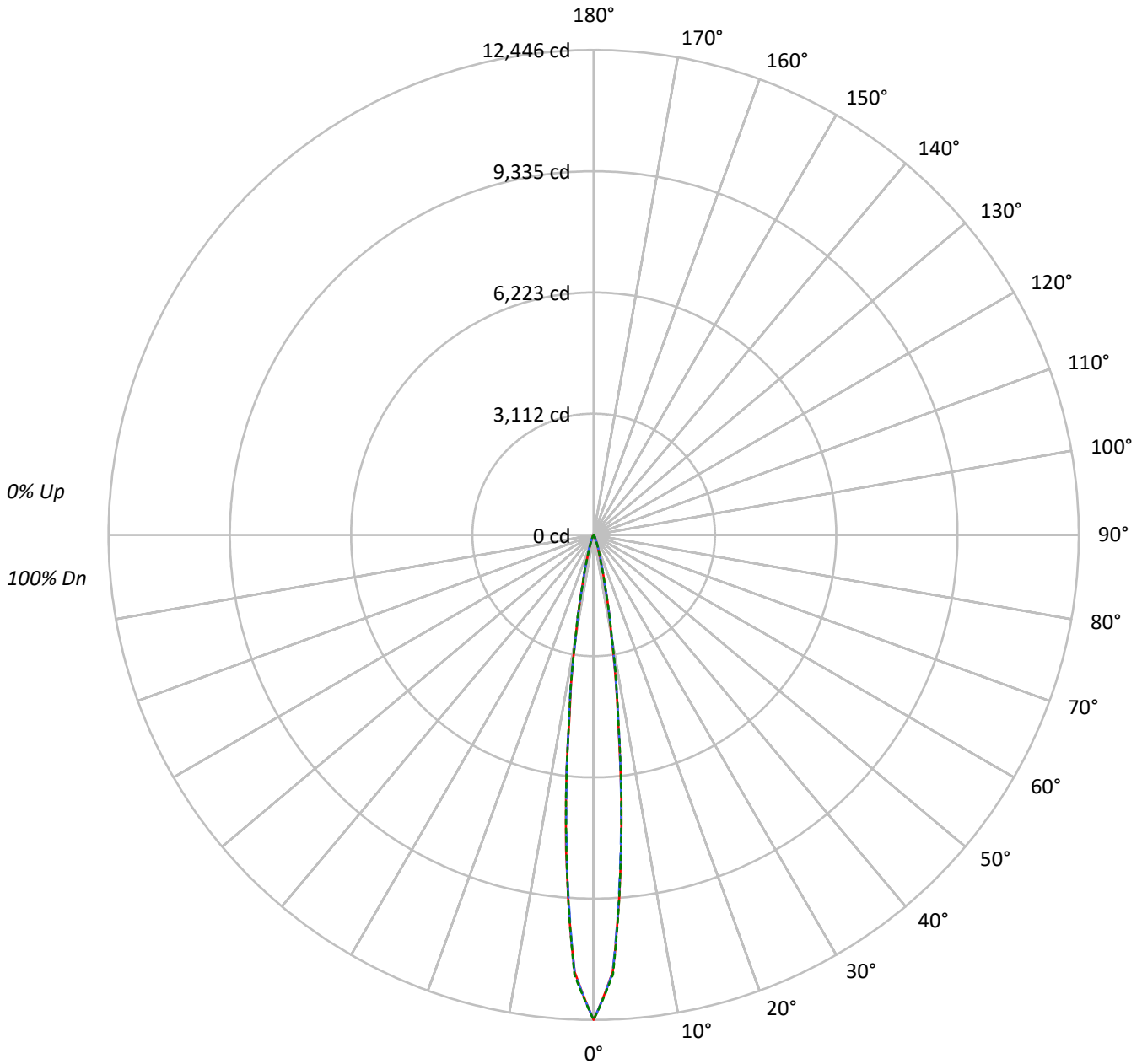
Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1400412	1400412	1400412
5°	822950	812289	818712
10°	245614	247330	251119
15°	61095	62285	60357
20°	18279	21168	18664
25°	6442	8211	6528
30°	2366	3115	2404
35°	1184	1336	1147
40°	746	824	746
45°	553	588	553
50°	438	438	438
55°	369	369	369
60°	295	295	295
65°	228	228	228
70°	190	190	190
75°	121	121	159
80°	87	87	87
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.4	64.9
10°-20°	243.7	26.7
20°-30°	48.4	5.3
30°-40°	12.1	1.3
40°-50°	6.3	0.7
50°-60°	4.7	0.5
60°-70°	3.3	0.4
70°-80°	1.9	0.2
80°-90°	0.6	0.1
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°	884.5	96.8
0°-40°	896.6	98.2
0°-60°	907.7	99.4
0°-90°	913.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	913.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12446	12446	12446	12446	12446	
5°	8098	8014	7993	8048	8056	591
15°	703	717	717	704	695	241
25°	83	94	105	93	84	43
35°	16	17	18	17	16	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12445.9	12445.9	12445.9	12445.9	12445.9
2.5°	11226.7	11236.2	11239.8	11250.9	11292.0
5°	8097.6	8014.3	7992.7	8048.0	8055.9
7.5°	4796.7	4813.5	4875.2	4888.9	4839.4
10°	2632.3	2653.9	2650.7	2669.7	2691.3
12.5°	1346.2	1329.3	1324.0	1345.6	1315.6
15°	703.4	716.6	717.1	704.4	694.9
17.5°	378.3	393.6	418.9	398.3	366.7
20°	223.4	237.1	258.7	241.8	228.1
22.5°	138.0	149.1	164.4	151.2	140.1
25°	82.7	93.8	105.4	93.3	83.8
27.5°	49.0	58.5	65.9	58.0	48.5
30°	31.6	36.9	41.6	36.4	32.1
32.5°	22.1	24.2	26.3	24.2	22.1
35°	16.3	17.4	18.4	17.4	15.8
37.5°	12.6	13.7	14.2	13.2	12.1
40°	10.5	11.1	11.6	11.1	10.5
42.5°	9.0	9.5	9.5	9.5	9.0
45°	7.9	7.9	8.4	7.9	7.9
47.5°	6.8	6.8	7.4	6.8	6.8
50°	6.3	6.3	6.3	6.3	6.3
52.5°	5.8	5.8	5.8	5.8	5.8
55°	5.3	5.3	5.3	5.3	5.3
57.5°	4.7	4.7	4.7	4.7	4.7
60°	4.2	4.2	4.2	4.2	4.2
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5
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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