

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: P741911

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741911
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-EU4DR150210IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1177.7 lumens
Efficiency: N/A
Efficacy: 100.7 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 (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

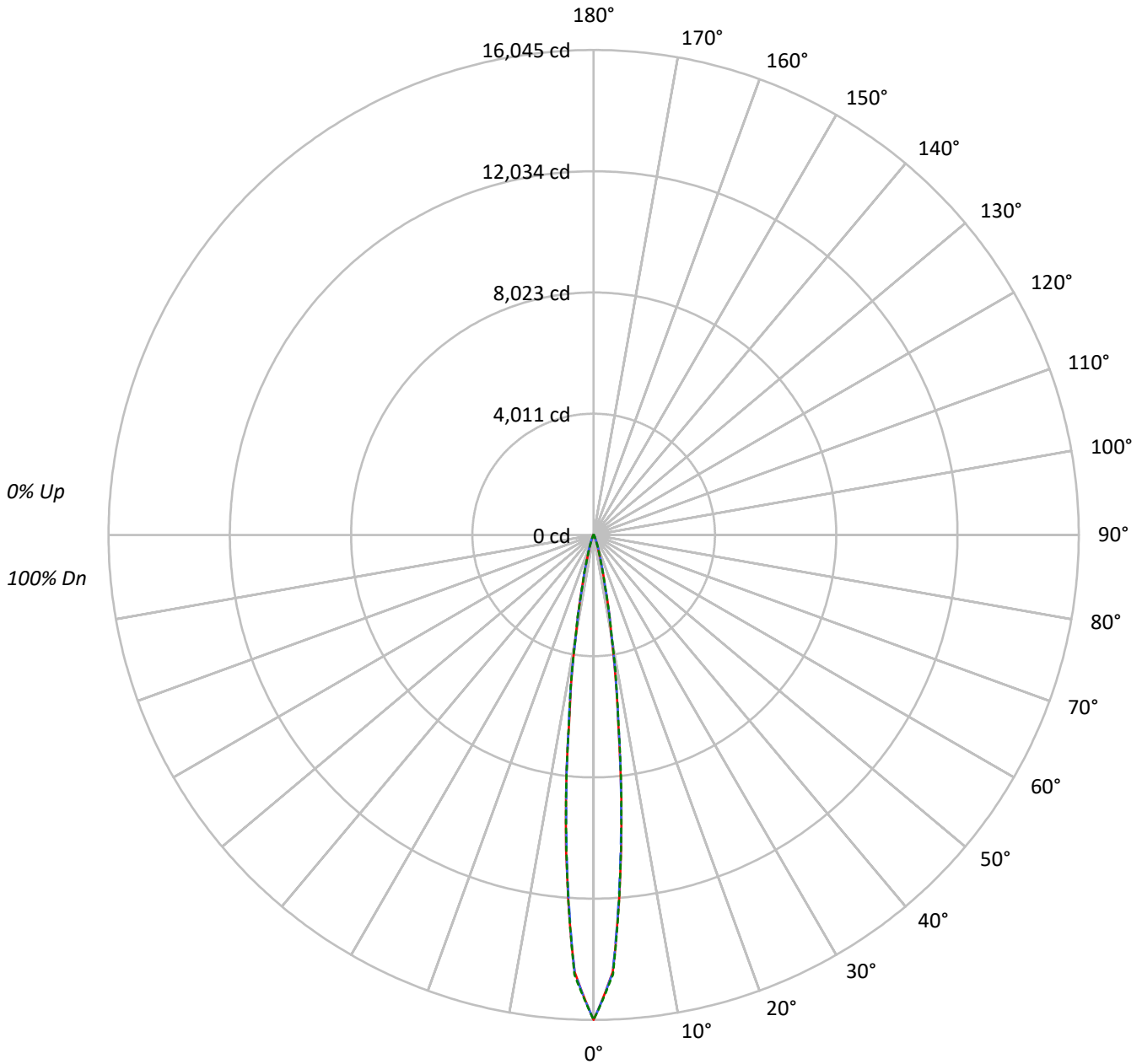


Downlight



TEST NUMBER: P741911
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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1805416	1805416	1805416
5°	1060955	1047215	1055497
10°	316649	318860	323740
15°	78762	80299	77815
20°	23565	27288	24064
25°	8304	10587	8413
30°	3055	4021	3100
35°	1532	1728	1481
40°	966	1058	966
45°	714	763	714
50°	570	570	570
55°	473	473	473
60°	379	379	379
65°	293	293	293
70°	249	249	249
75°	151	151	204
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 763 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.8	64.9
10°-20°	314.2	26.7
20°-30°	62.4	5.3
30°-40°	15.6	1.3
40°-50°	8.2	0.7
50°-60°	6.1	0.5
60°-70°	4.3	0.4
70°-80°	2.4	0.2
80°-90°	0.8	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°	1140.4	96.8
0°-40°	1155.9	98.2
0°-60°	1170.2	99.4
0°-90°	1177.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16045	16045	16045	16045	16045	
5°	10440	10332	10304	10376	10386	762
15°	907	924	924	908	896	311
25°	107	121	136	120	108	56
35°	21	22	24	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16045.3	16045.3	16045.3	16045.3	16045.3
2.5°	14473.5	14485.8	14490.5	14504.8	14557.8
5°	10439.5	10332.1	10304.3	10375.6	10385.8
7.5°	6183.9	6205.7	6285.1	6302.8	6238.9
10°	3393.6	3421.4	3417.3	3441.8	3469.6
12.5°	1735.5	1713.8	1707.0	1734.8	1696.1
15°	906.8	923.8	924.5	908.2	895.9
17.5°	487.7	507.4	540.0	513.5	472.8
20°	288.0	305.7	333.5	311.8	294.1
22.5°	178.0	192.2	211.9	194.9	180.7
25°	106.6	120.9	135.9	120.2	108.0
27.5°	63.2	75.4	84.9	74.7	62.5
30°	40.8	47.5	53.7	46.9	41.4
32.5°	28.5	31.2	34.0	31.2	28.5
35°	21.1	22.4	23.8	22.4	20.4
37.5°	16.3	17.7	18.3	17.0	15.6
40°	13.6	14.3	14.9	14.3	13.6
42.5°	11.5	12.2	12.2	12.2	11.5
45°	10.2	10.2	10.9	10.2	10.2
47.5°	8.8	8.8	9.5	8.8	8.8
50°	8.2	8.2	8.2	8.2	8.2
52.5°	7.5	7.5	7.5	7.5	7.5
55°	6.8	6.8	6.8	6.8	6.8
57.5°	6.1	6.1	6.1	6.1	6.1
60°	5.4	5.4	5.4	5.4	5.4
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
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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