

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P743867

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743867
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: LD4D20D010-EU4DR1515309024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1710.3 lumens
Efficiency: N/A
Efficacy: 74.0 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): 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

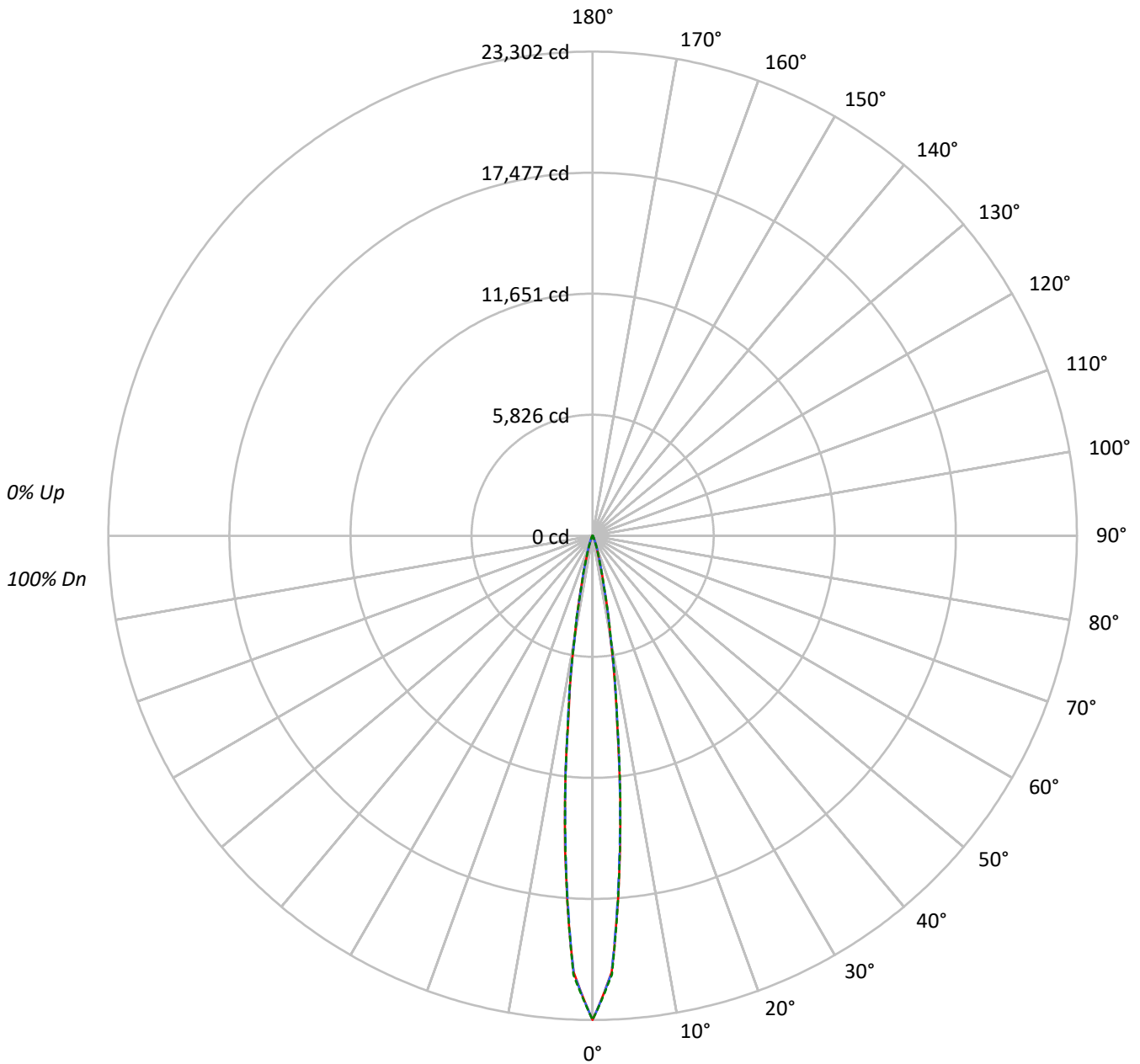


Downlight



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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	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°	2621917	2621917	2621917
5°	1540765	1520816	1532838
10°	459848	463067	470158
15°	114382	116614	113009
20°	34226	39627	34947
25°	12067	15370	12215
30°	4433	5833	4508
35°	2222	2505	2150
40°	1399	1541	1399
45°	1036	1106	1036
50°	821	821	821
55°	689	689	689
60°	555	555	555
65°	421	421	421
70°	358	358	358
75°	227	227	295
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.2	64.9
10°-20°	456.3	26.7
20°-30°	90.6	5.3
30°-40°	22.6	1.3
40°-50°	11.9	0.7
50°-60°	8.8	0.5
60°-70°	6.2	0.4
70°-80°	3.6	0.2
80°-90°	1.1	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°	1656.1	96.8
0°-40°	1678.7	98.2
0°-60°	1699.4	99.4
0°-90°	1710.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23302	23302	23302	23302	23302	
5°	15161	15005	14964	15068	15083	1107
15°	1317	1342	1343	1319	1301	452
25°	155	176	197	175	157	81
35°	31	33	34	33	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
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°	23301.8	23301.8	23301.8	23301.8	23301.8
2.5°	21019.2	21036.9	21043.8	21064.5	21141.5
5°	15160.7	15004.8	14964.4	15067.9	15082.7
7.5°	8980.6	9012.2	9127.6	9153.2	9060.5
10°	4928.3	4968.7	4962.8	4998.3	5038.8
12.5°	2520.4	2488.8	2478.9	2519.4	2463.2
15°	1316.9	1341.6	1342.6	1318.9	1301.1
17.5°	708.3	736.9	784.2	745.8	686.6
20°	418.3	443.9	484.3	452.8	427.1
22.5°	258.4	279.2	307.8	283.1	262.4
25°	154.9	175.6	197.3	174.6	156.8
27.5°	91.7	109.5	123.3	108.5	90.8
30°	59.2	69.1	77.9	68.1	60.2
32.5°	41.4	45.4	49.3	45.4	41.4
35°	30.6	32.6	34.5	32.6	29.6
37.5°	23.7	25.6	26.6	24.7	22.7
40°	19.7	20.7	21.7	20.7	19.7
42.5°	16.8	17.8	17.8	17.8	16.8
45°	14.8	14.8	15.8	14.8	14.8
47.5°	12.8	12.8	13.8	12.8	12.8
50°	11.8	11.8	11.8	11.8	11.8
52.5°	10.9	10.9	10.9	10.9	10.9
55°	9.9	9.9	9.9	9.9	9.9
57.5°	8.9	8.9	8.9	8.9	8.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	6.9	6.9	6.9	6.9	6.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.9	3.9	3.9	3.9	3.9
75°	3.0	3.0	3.0	3.0	3.9
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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