

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: P743859

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743859
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-EU4DR1515309024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.7 lumens
Efficiency: N/A
Efficacy: 64.4 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

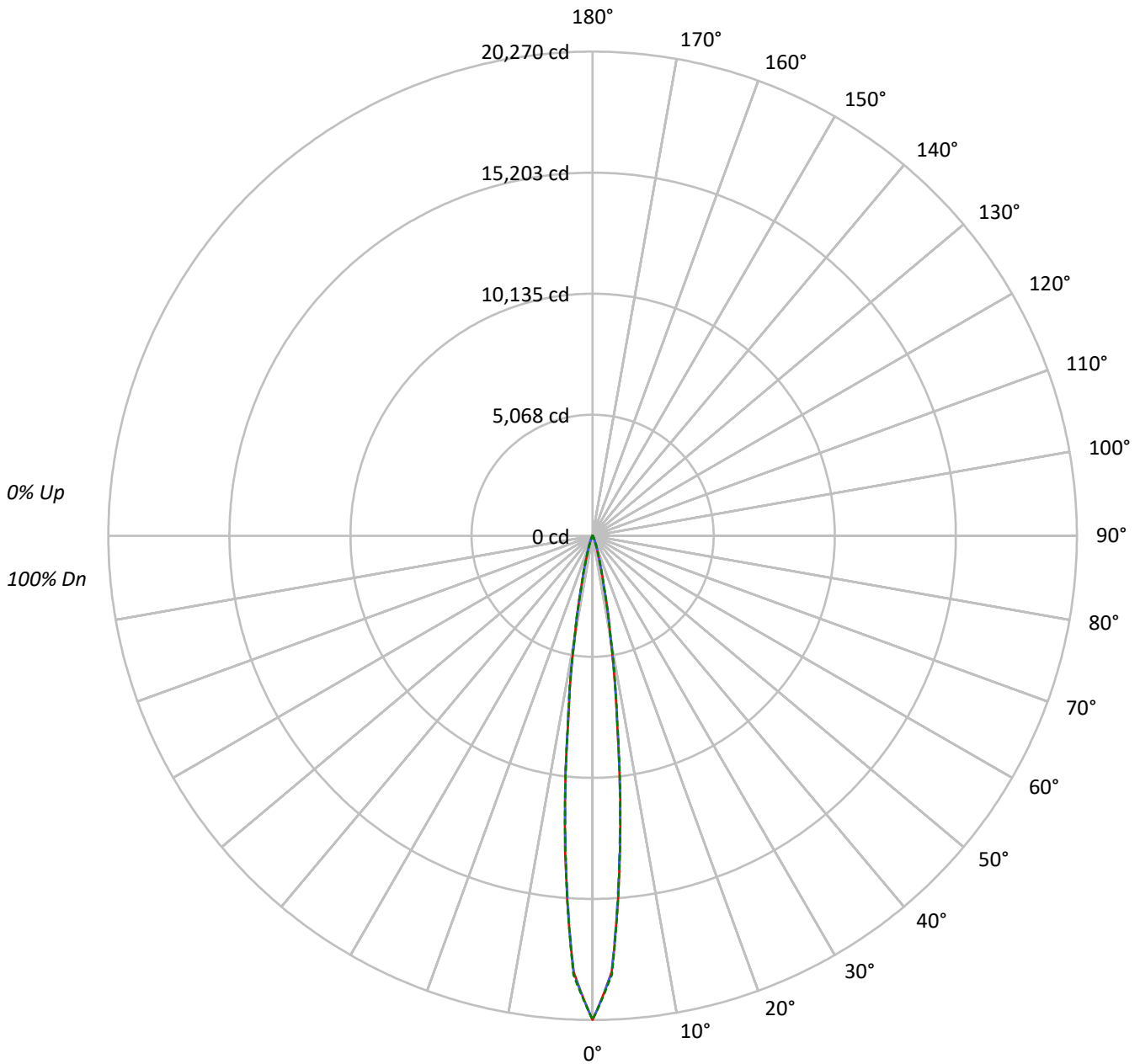


Downlight



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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	88	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°	2280746	2280746	2280746
5°	1340272	1322914	1333381
10°	400010	402809	408977
15°	99495	101440	98305
20°	29767	34472	30405
25°	10493	13368	10626
30°	3856	5077	3916
35°	1932	2179	1866
40°	1221	1342	1221
45°	903	959	903
50°	716	716	716
55°	599	599	599
60°	484	484	484
65°	364	364	364
70°	314	314	314
75°	197	197	257
80°	134	134	134
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 959 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.9	64.9
10°-20°	396.9	26.7
20°-30°	78.8	5.3
30°-40°	19.7	1.3
40°-50°	10.3	0.7
50°-60°	7.7	0.5
60°-70°	5.4	0.4
70°-80°	3.1	0.2
80°-90°	0.9	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°	1440.6	96.8
0°-40°	1460.3	98.2
0°-60°	1478.3	99.4
0°-90°	1487.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20270	20270	20270	20270	20270	
5°	13188	13052	13017	13107	13120	963
15°	1146	1167	1168	1147	1132	393
25°	135	153	172	152	136	71
35°	27	28	30	28	26	18
45°	13	13	14	13	13	10
55°	9	9	9	9	9	8
65°	5	5	5	5	5	5
75°	3	3	3	3	3	3
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°	20269.7	20269.7	20269.7	20269.7	20269.7
2.5°	18284.1	18299.5	18305.5	18323.5	18390.5
5°	13187.9	13052.3	13017.1	13107.2	13120.1
7.5°	7812.0	7839.5	7939.8	7962.2	7881.5
10°	4287.0	4322.2	4317.0	4347.9	4383.1
12.5°	2192.4	2164.9	2156.4	2191.5	2142.6
15°	1145.5	1167.0	1167.9	1147.3	1131.8
17.5°	616.1	641.0	682.2	648.7	597.2
20°	363.8	386.1	421.3	393.9	371.6
22.5°	224.8	242.8	267.7	246.3	228.3
25°	134.7	152.7	171.6	151.9	136.4
27.5°	79.8	95.2	107.3	94.4	78.9
30°	51.5	60.1	67.8	59.2	52.3
32.5°	36.0	39.5	42.9	39.5	36.0
35°	26.6	28.3	30.0	28.3	25.7
37.5°	20.6	22.3	23.2	21.5	19.7
40°	17.2	18.0	18.9	18.0	17.2
42.5°	14.6	15.4	15.4	15.4	14.6
45°	12.9	12.9	13.7	12.9	12.9
47.5°	11.2	11.2	12.0	11.2	11.2
50°	10.3	10.3	10.3	10.3	10.3
52.5°	9.4	9.4	9.4	9.4	9.4
55°	8.6	8.6	8.6	8.6	8.6
57.5°	7.7	7.7	7.7	7.7	7.7
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.1	5.1	5.1	5.1	5.1
67.5°	5.1	5.1	5.1	5.1	5.1
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.6	2.6	2.6	2.6	3.4
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9
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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