

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: P743911

Luminaire Tested: LD4D20D010-EU4DR1515309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743911
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-EU4DR1515309040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1849.9 lumens
Efficiency: N/A
Efficacy: 80.1 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): 23.1
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



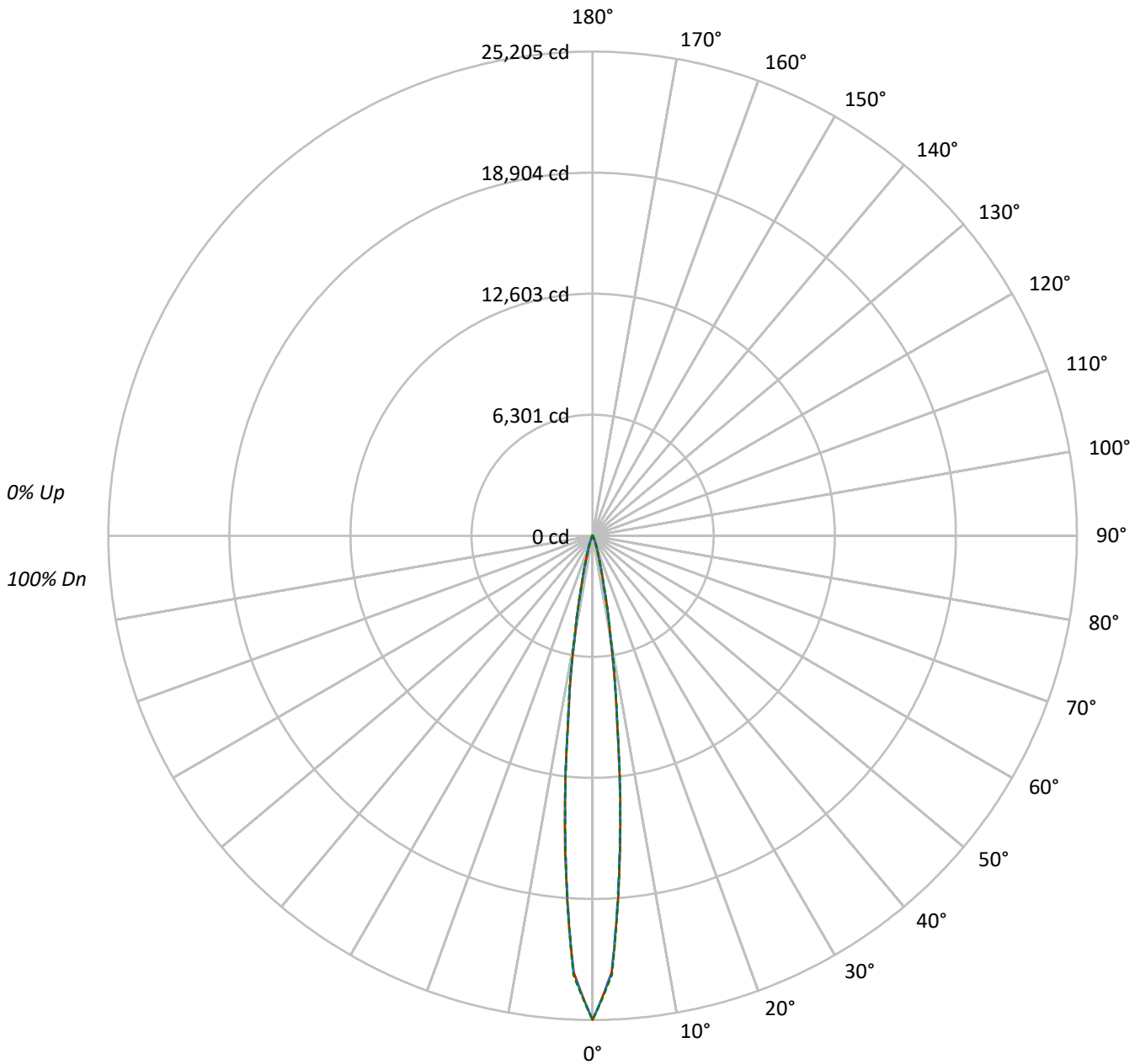
Downlight



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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	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	88	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°	2836088	2836088	2836088
5°	1666623	1645037	1658055
10°	497404	500894	508564
15°	123728	126134	122242
20°	37017	42867	37802
25°	13048	16624	13220
30°	4792	6312	4875
35°	2404	2709	2324
40°	1513	1669	1513
45°	1120	1197	1120
50°	890	890	890
55°	745	745	745
60°	597	597	597
65°	457	457	457
70°	388	388	388
75°	242	242	325
80°	166	166	166
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1197 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.8	64.9
10°-20°	493.5	26.7
20°-30°	98.0	5.3
30°-40°	24.5	1.3
40°-50°	12.9	0.7
50°-60°	9.5	0.5
60°-70°	6.7	0.4
70°-80°	3.8	0.2
80°-90°	1.2	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°	1791.4	96.8
0°-40°	1815.8	98.2
0°-60°	1838.2	99.4
0°-90°	1849.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25205	25205	25205	25205	25205	
5°	16399	16230	16187	16299	16315	1198
15°	1424	1451	1452	1427	1407	488
25°	168	190	213	189	170	88
35°	33	35	37	35	32	22
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
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°	25205.2	25205.2	25205.2	25205.2	25205.2
2.5°	22736.1	22755.3	22762.8	22785.2	22868.4
5°	16399.1	16230.5	16186.7	16298.8	16314.8
7.5°	9714.2	9748.3	9873.2	9900.9	9800.6
10°	5330.8	5374.6	5368.2	5406.6	5450.4
12.5°	2726.2	2692.1	2681.4	2725.2	2664.4
15°	1424.5	1451.2	1452.2	1426.6	1407.4
17.5°	766.1	797.1	848.3	806.7	742.6
20°	452.4	480.2	523.9	489.8	462.0
22.5°	279.6	302.0	332.9	306.2	283.8
25°	167.5	189.9	213.4	188.9	169.7
27.5°	99.2	118.4	133.4	117.4	98.2
30°	64.0	74.7	84.3	73.6	65.1
32.5°	44.8	49.1	53.4	49.1	44.8
35°	33.1	35.2	37.3	35.2	32.0
37.5°	25.6	27.7	28.8	26.7	24.5
40°	21.3	22.4	23.5	22.4	21.3
42.5°	18.1	19.2	19.2	19.2	18.1
45°	16.0	16.0	17.1	16.0	16.0
47.5°	13.9	13.9	14.9	13.9	13.9
50°	12.8	12.8	12.8	12.8	12.8
52.5°	11.7	11.7	11.7	11.7	11.7
55°	10.7	10.7	10.7	10.7	10.7
57.5°	9.6	9.6	9.6	9.6	9.6
60°	8.5	8.5	8.5	8.5	8.5
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.2	3.2	3.2	3.2	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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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