

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: P738834

Luminaire Tested: LD4D02D010-EU4DR150210IC9027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738834
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: LD4D02D010-EU4DR150210IC9027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 312.1 lumens
Efficiency: N/A
Efficacy: 61.2 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): 5.1
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



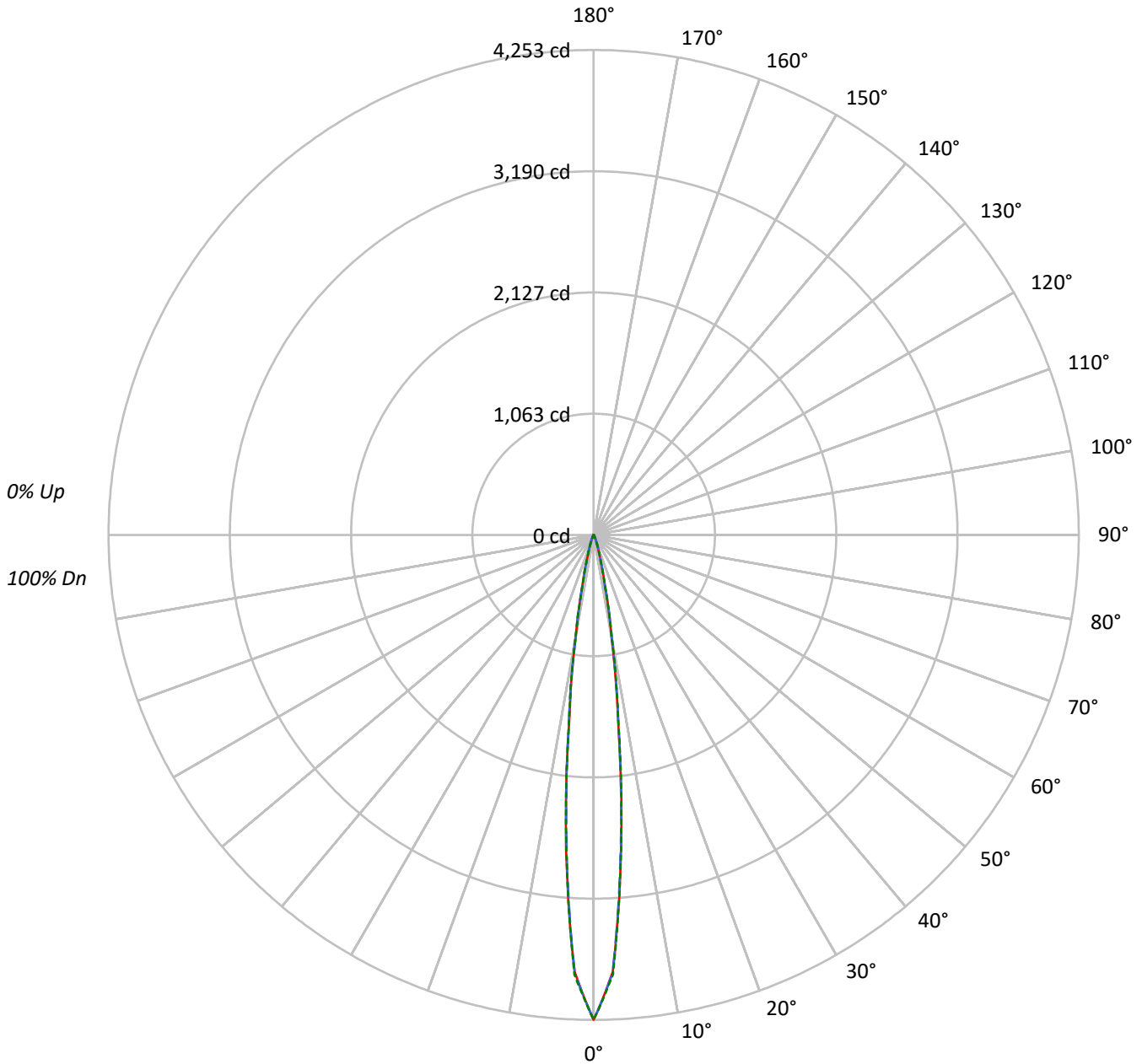
Downlight



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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	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°	478514	478514	478514
5°	281197	277559	279754
10°	83921	84509	85806
15°	20872	21280	20628
20°	6243	7233	6382
25°	2205	2804	2228
30°	809	1063	824
35°	407	458	392
40°	256	284	256
45°	189	203	189
50°	153	153	153
55°	125	125	125
60°	98	98	98
65°	79	79	79
70°	66	66	66
75°	38	38	53
80°	32	32	32
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	64.9
10°-20°	83.3	26.7
20°-30°	16.5	5.3
30°-40°	4.1	1.3
40°-50°	2.2	0.7
50°-60°	1.6	0.5
60°-70°	1.2	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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°	302.2	96.8
0°-40°	306.4	98.2
0°-60°	310.1	99.4
0°-90°	312.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4253	4253	4253	4253	4253	
5°	2767	2738	2731	2750	2753	202
15°	240	245	245	241	238	82
25°	28	32	36	32	29	15
35°	6	6	6	6	5	4
45°	3	3	3	3	3	2
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4252.7	4252.7	4252.7	4252.7	4252.7
2.5°	3836.1	3839.4	3840.6	3844.4	3858.4
5°	2766.9	2738.5	2731.1	2750.0	2752.7
7.5°	1639.0	1644.8	1665.8	1670.5	1653.6
10°	899.4	906.8	905.7	912.2	919.6
12.5°	460.0	454.2	452.4	459.8	449.5
15°	240.3	244.8	245.0	240.7	237.5
17.5°	129.3	134.5	143.1	136.1	125.3
20°	76.3	81.0	88.4	82.6	78.0
22.5°	47.2	50.9	56.2	51.7	47.9
25°	28.3	32.0	36.0	31.9	28.6
27.5°	16.7	20.0	22.5	19.8	16.6
30°	10.8	12.6	14.2	12.4	11.0
32.5°	7.6	8.3	9.0	8.3	7.6
35°	5.6	5.9	6.3	5.9	5.4
37.5°	4.3	4.7	4.9	4.5	4.1
40°	3.6	3.8	4.0	3.8	3.6
42.5°	3.1	3.2	3.2	3.2	3.1
45°	2.7	2.7	2.9	2.7	2.7
47.5°	2.3	2.3	2.5	2.3	2.3
50°	2.2	2.2	2.2	2.2	2.2
52.5°	2.0	2.0	2.0	2.0	2.0
55°	1.8	1.8	1.8	1.8	1.8
57.5°	1.6	1.6	1.6	1.6	1.6
60°	1.4	1.4	1.4	1.4	1.4
62.5°	1.3	1.3	1.3	1.3	1.3
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2
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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