

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: P741915

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741915
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-EU4DR150210IC9040-4LBCSSQMB
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: 1002.6 lumens
Efficiency: N/A
Efficacy: 85.7 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 (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



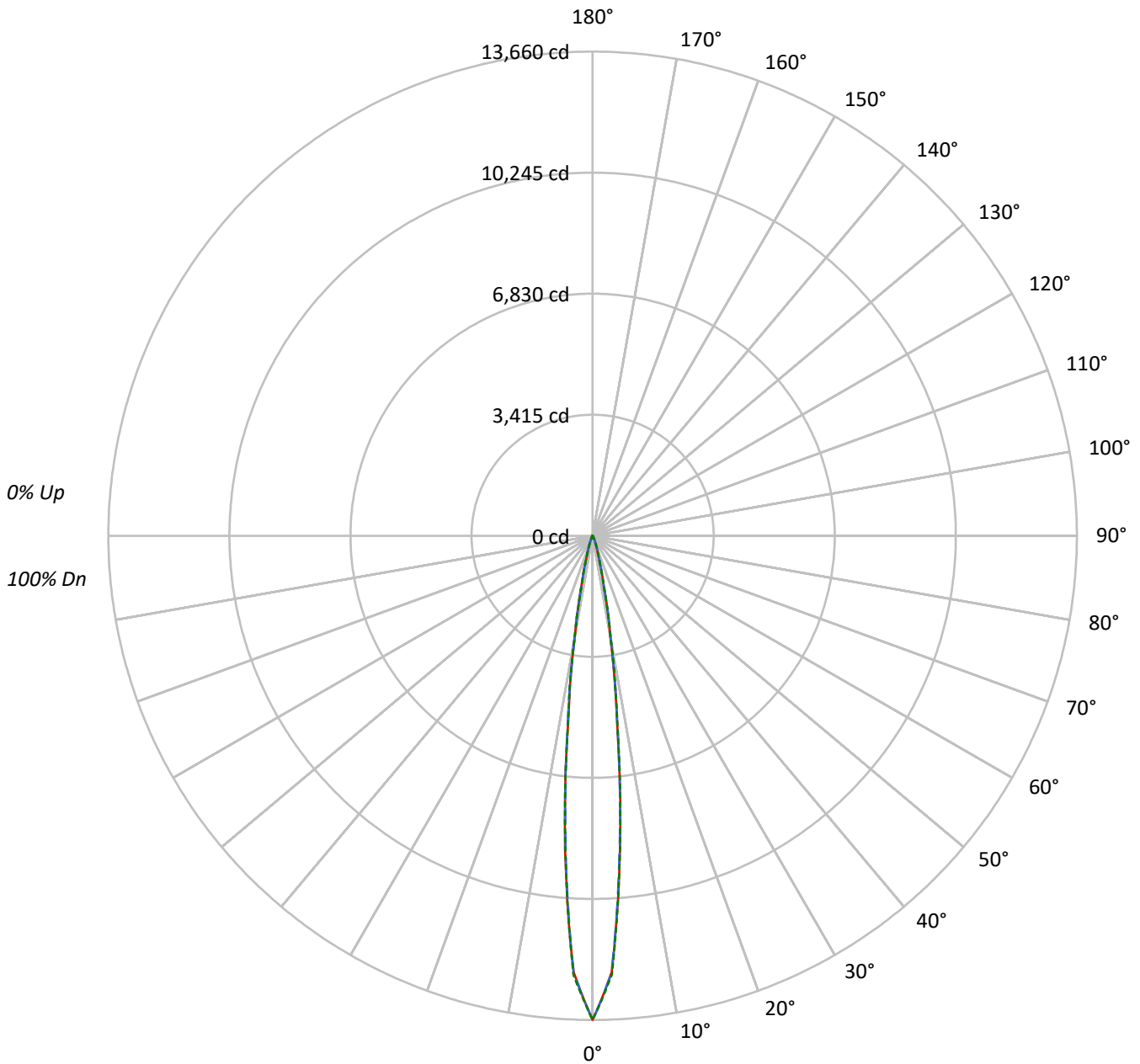
Downlight



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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	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°	1537056	1537056	1537056
5°	903247	891550	898603
10°	269575	271469	275621
15°	67053	68365	66254
20°	20063	23229	20488
25°	7073	9013	7159
30°	2598	3422	2643
35°	1300	1467	1256
40°	824	902	824
45°	609	651	609
50°	480	480	480
55°	404	404	404
60°	323	323	323
65°	250	250	250
70°	212	212	212
75°	128	128	174
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.3	64.9
10°-20°	267.5	26.7
20°-30°	53.1	5.3
30°-40°	13.3	1.3
40°-50°	7.0	0.7
50°-60°	5.2	0.5
60°-70°	3.7	0.4
70°-80°	2.1	0.2
80°-90°	0.7	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°	970.9	96.8
0°-40°	984.1	98.2
0°-60°	996.3	99.4
0°-90°	1002.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1002.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13660	13660	13660	13660	13660	
5°	8888	8796	8773	8833	8842	649
15°	772	786	787	773	763	265
25°	91	103	116	102	92	48
35°	18	19	20	19	17	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	13660.3	13660.3	13660.3	13660.3	13660.3
2.5°	12322.2	12332.6	12336.6	12348.8	12393.9
5°	8887.7	8796.4	8772.6	8833.4	8842.0
7.5°	5264.7	5283.2	5350.9	5365.9	5311.6
10°	2889.1	2912.8	2909.4	2930.2	2953.9
12.5°	1477.5	1459.0	1453.2	1477.0	1444.0
15°	772.0	786.5	787.1	773.2	762.8
17.5°	415.2	432.0	459.7	437.2	402.5
20°	245.2	260.2	283.9	265.4	250.4
22.5°	151.5	163.7	180.4	166.0	153.8
25°	90.8	102.9	115.7	102.4	91.9
27.5°	53.8	64.2	72.3	63.6	53.2
30°	34.7	40.5	45.7	39.9	35.3
32.5°	24.3	26.6	28.9	26.6	24.3
35°	17.9	19.1	20.2	19.1	17.3
37.5°	13.9	15.0	15.6	14.5	13.3
40°	11.6	12.1	12.7	12.1	11.6
42.5°	9.8	10.4	10.4	10.4	9.8
45°	8.7	8.7	9.3	8.7	8.7
47.5°	7.5	7.5	8.1	7.5	7.5
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.4	6.4	6.4	6.4	6.4
55°	5.8	5.8	5.8	5.8	5.8
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.0	4.0	4.0	4.0	4.0
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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