

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: P741902

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741902
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-EU4DR150210IC9035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 975.7 lumens
Efficiency: N/A
Efficacy: 83.4 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): 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



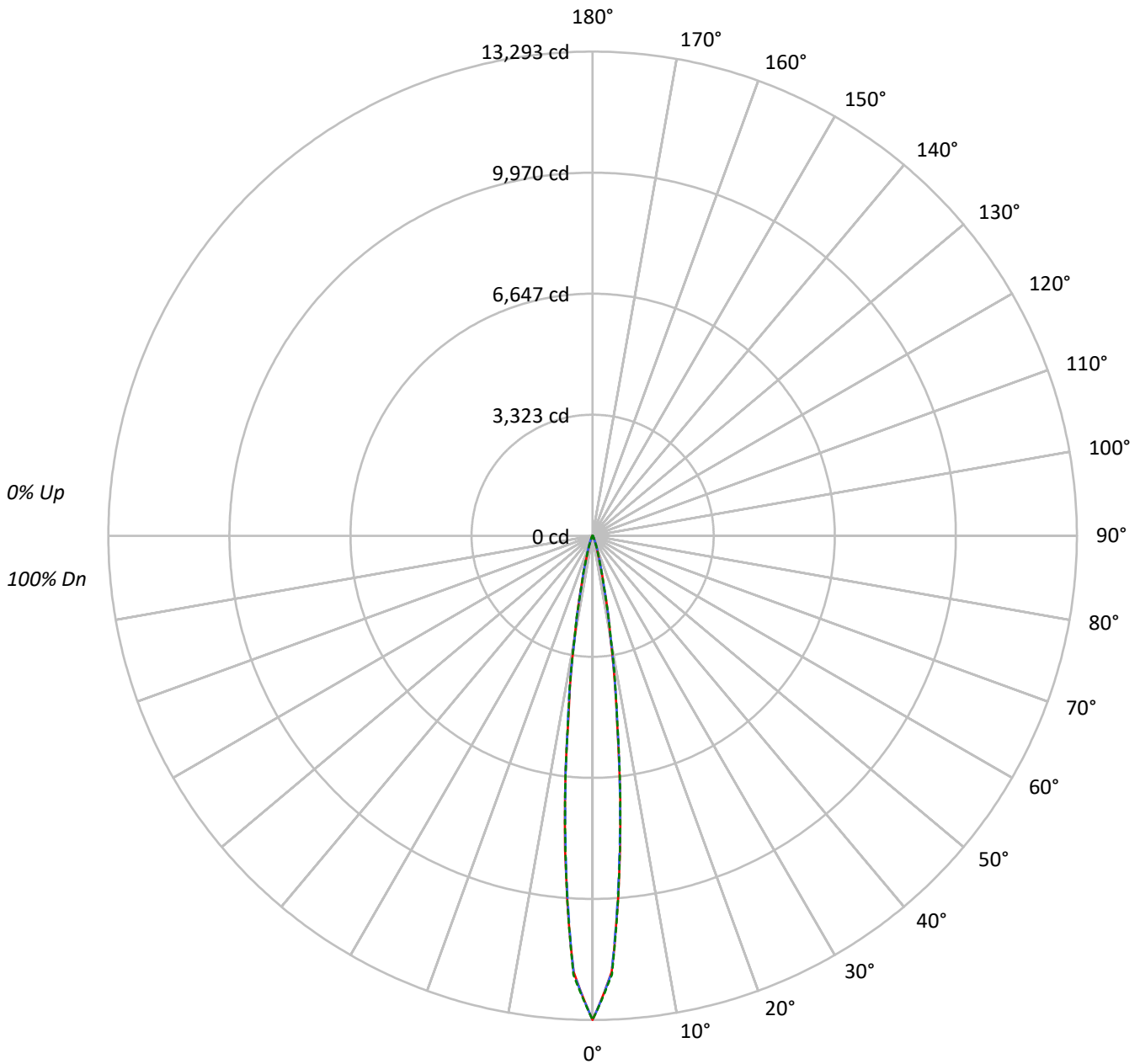
Downlight



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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	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°	1495705	1495705	1495705
5°	878948	867565	874425
10°	262325	264163	268203
15°	65247	66524	64465
20°	19523	22608	19940
25°	6879	8764	6972
30°	2531	3332	2568
35°	1264	1431	1227
40°	802	881	802
45°	588	630	588
50°	473	473	473
55°	390	390	390
60°	316	316	316
65°	243	243	243
70°	205	205	205
75°	128	128	174
80°	87	87	87
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 630 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	64.9
10°-20°	260.3	26.7
20°-30°	51.7	5.3
30°-40°	12.9	1.3
40°-50°	6.8	0.7
50°-60°	5.0	0.5
60°-70°	3.6	0.4
70°-80°	2.0	0.2
80°-90°	0.6	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°	944.7	96.8
0°-40°	957.6	98.2
0°-60°	969.5	99.4
0°-90°	975.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13293	13293	13293	13293	13293	
5°	8649	8560	8537	8596	8604	632
15°	751	765	766	752	742	258
25°	88	100	112	100	90	46
35°	17	19	20	19	17	12
45°	8	8	9	8	8	7
55°	6	6	6	6	6	5
65°	3	3	3	3	3	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°	13292.8	13292.8	13292.8	13292.8	13292.8
2.5°	11990.6	12000.8	12004.7	12016.5	12060.4
5°	8648.6	8559.7	8536.6	8595.7	8604.1
7.5°	5123.1	5141.1	5206.9	5221.6	5168.7
10°	2811.4	2834.5	2831.1	2851.4	2874.4
12.5°	1437.8	1419.8	1414.1	1437.2	1405.1
15°	751.2	765.3	765.9	752.4	742.2
17.5°	404.0	420.4	447.4	425.4	391.7
20°	238.6	253.2	276.3	258.3	243.7
22.5°	147.4	159.3	175.6	161.5	149.7
25°	88.3	100.2	112.5	99.6	89.5
27.5°	52.3	62.5	70.3	61.9	51.8
30°	33.8	39.4	44.5	38.8	34.3
32.5°	23.6	25.9	28.1	25.9	23.6
35°	17.4	18.6	19.7	18.6	16.9
37.5°	13.5	14.6	15.2	14.1	12.9
40°	11.3	11.8	12.4	11.8	11.3
42.5°	9.6	10.1	10.1	10.1	9.6
45°	8.4	8.4	9.0	8.4	8.4
47.5°	7.3	7.3	7.9	7.3	7.3
50°	6.8	6.8	6.8	6.8	6.8
52.5°	6.2	6.2	6.2	6.2	6.2
55°	5.6	5.6	5.6	5.6	5.6
57.5°	5.1	5.1	5.1	5.1	5.1
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.9	3.9	3.9	3.9	3.9
65°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.8	2.8	2.8	2.8	2.8
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°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
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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