

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: P741927

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741927
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-EU4DR150210IC9040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 994.5 lumens
Efficiency: N/A
Efficacy: 85.0 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



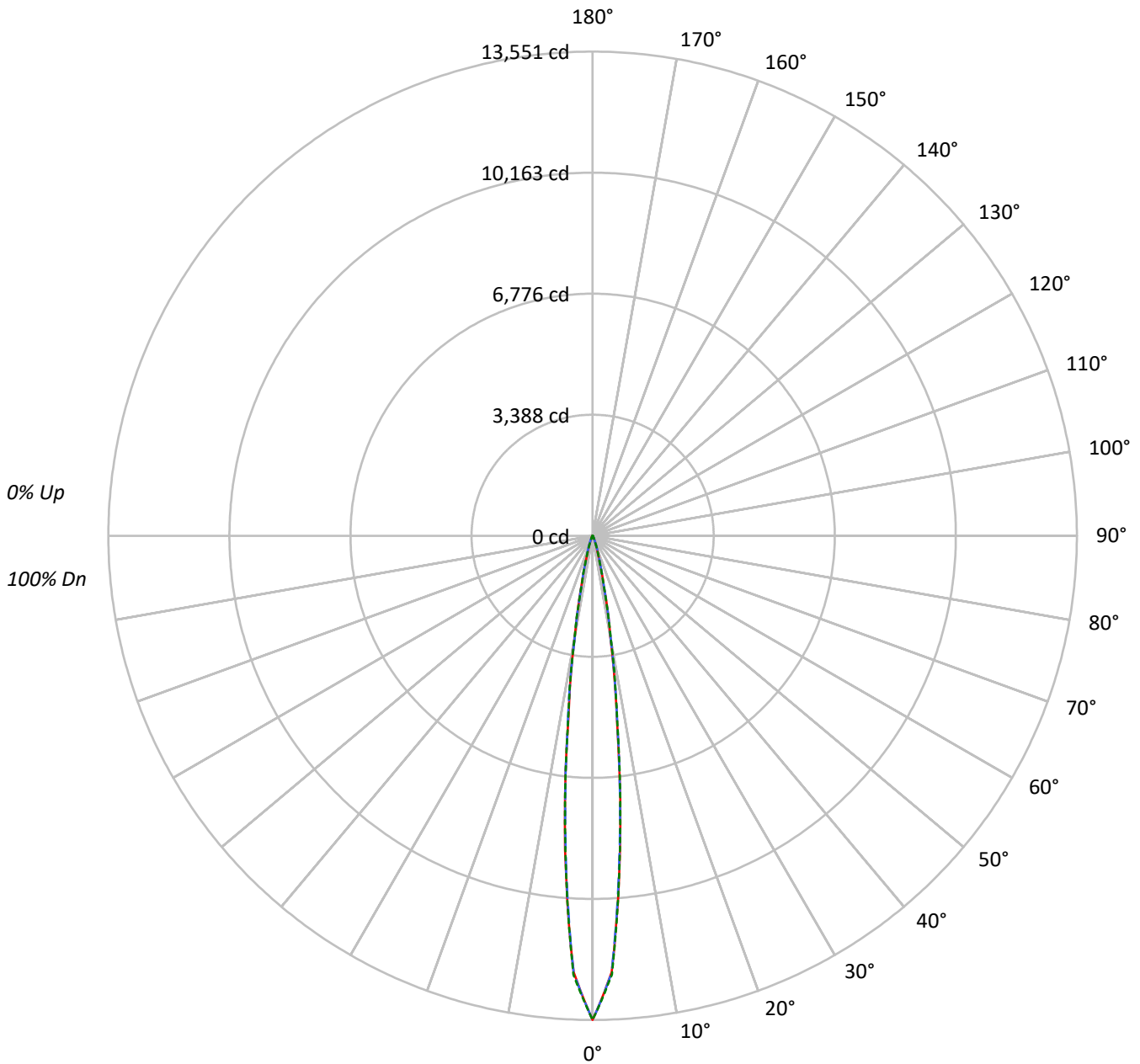
Downlight



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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	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	99	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°	1524747	1524747	1524747
5°	896011	884415	891407
10°	267420	269295	273410
15°	66515	67809	65725
20°	19899	23049	20325
25°	7019	8935	7105
30°	2576	3392	2621
35°	1293	1460	1249
40°	817	895	817
45°	602	644	602
50°	480	480	480
55°	397	397	397
60°	323	323	323
65°	243	243	243
70°	212	212	212
75°	128	128	174
80°	87	87	87
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.1	64.9
10°-20°	265.3	26.7
20°-30°	52.7	5.3
30°-40°	13.2	1.3
40°-50°	6.9	0.7
50°-60°	5.1	0.5
60°-70°	3.6	0.4
70°-80°	2.1	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°	963.1	96.8
0°-40°	976.2	98.2
0°-60°	988.3	99.4
0°-90°	994.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13551	13551	13551	13551	13551	
5°	8816	8726	8702	8763	8771	644
15°	766	780	781	767	757	263
25°	90	102	115	102	91	47
35°	18	19	20	19	17	12
45°	9	9	9	9	9	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°	13550.9	13550.9	13550.9	13550.9	13550.9
2.5°	12223.5	12233.8	12237.8	12249.9	12294.6
5°	8816.5	8725.9	8702.4	8762.6	8771.2
7.5°	5222.6	5240.9	5308.1	5323.0	5269.0
10°	2866.0	2889.5	2886.1	2906.7	2930.2
12.5°	1465.7	1447.3	1441.6	1465.1	1432.4
15°	765.8	780.2	780.7	767.0	756.7
17.5°	411.9	428.5	456.1	433.7	399.3
20°	243.2	258.1	281.7	263.3	248.4
22.5°	150.3	162.3	179.0	164.6	152.6
25°	90.1	102.1	114.7	101.5	91.2
27.5°	53.4	63.7	71.7	63.1	52.8
30°	34.4	40.2	45.3	39.6	35.0
32.5°	24.1	26.4	28.7	26.4	24.1
35°	17.8	18.9	20.1	18.9	17.2
37.5°	13.8	14.9	15.5	14.3	13.2
40°	11.5	12.0	12.6	12.0	11.5
42.5°	9.8	10.3	10.3	10.3	9.8
45°	8.6	8.6	9.2	8.6	8.6
47.5°	7.5	7.5	8.0	7.5	7.5
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.3	6.3	6.3	6.3	6.3
55°	5.7	5.7	5.7	5.7	5.7
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°	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
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°	1.1	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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