

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P742913

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742913
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: LD4D15D010-EU4DR1515309030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.9 lumens
Efficiency: N/A
Efficacy: 78.0 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): 15.8
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



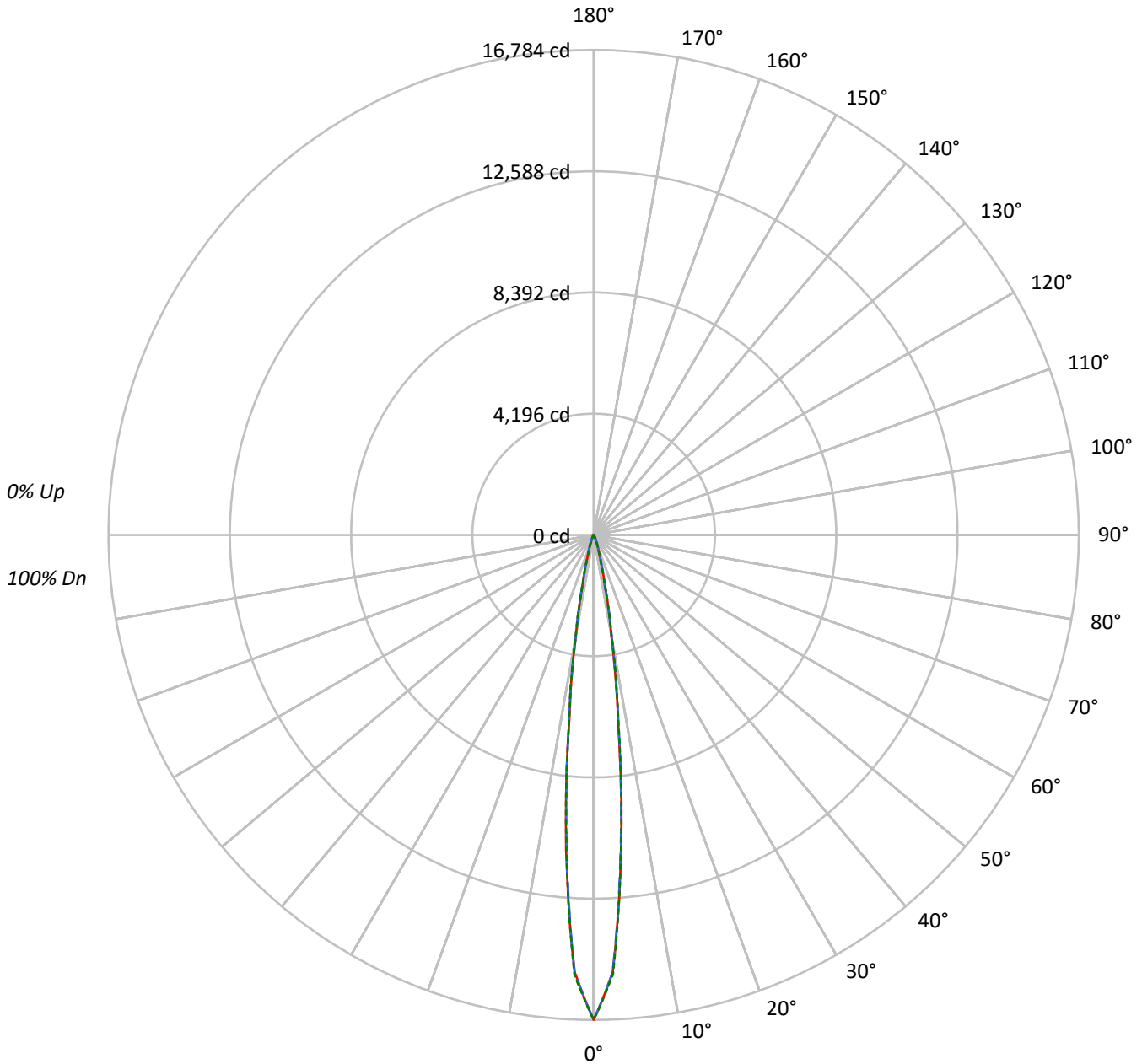
Downlight



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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°	1888569	1888569	1888569
5°	1109808	1095438	1104107
10°	331223	333547	338651
15°	82392	83991	81402
20°	24653	28548	25177
25°	8694	11070	8803
30°	3190	4201	3242
35°	1598	1808	1547
40°	1008	1108	1008
45°	749	798	749
50°	591	591	591
55°	494	494	494
60°	400	400	400
65°	307	307	307
70°	263	263	263
75°	159	159	212
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.0	64.9
10°-20°	328.6	26.7
20°-30°	65.3	5.3
30°-40°	16.3	1.3
40°-50°	8.6	0.7
50°-60°	6.3	0.5
60°-70°	4.5	0.4
70°-80°	2.5	0.2
80°-90°	0.8	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°	1192.9	96.8
0°-40°	1209.2	98.2
0°-60°	1224.1	99.4
0°-90°	1231.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16784	16784	16784	16784	16784	
5°	10920	10808	10779	10853	10864	797
15°	949	966	967	950	937	325
25°	112	126	142	126	113	59
35°	22	23	25	23	21	15
45°	11	11	11	11	11	8
55°	7	7	7	7	7	6
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	16784.3	16784.3	16784.3	16784.3	16784.3
2.5°	15140.1	15152.9	15157.9	15172.8	15228.2
5°	10920.2	10808.0	10778.8	10853.4	10864.1
7.5°	6468.7	6491.5	6574.6	6593.1	6526.3
10°	3549.8	3579.0	3574.7	3600.3	3629.4
12.5°	1815.4	1792.7	1785.6	1814.7	1774.2
15°	948.6	966.3	967.0	950.0	937.2
17.5°	510.2	530.8	564.9	537.2	494.5
20°	301.3	319.7	348.9	326.1	307.7
22.5°	186.2	201.1	221.7	203.9	189.0
25°	111.6	126.5	142.1	125.8	113.0
27.5°	66.1	78.9	88.8	78.2	65.4
30°	42.6	49.7	56.1	49.0	43.3
32.5°	29.8	32.7	35.5	32.7	29.8
35°	22.0	23.4	24.9	23.4	21.3
37.5°	17.1	18.5	19.2	17.8	16.3
40°	14.2	14.9	15.6	14.9	14.2
42.5°	12.1	12.8	12.8	12.8	12.1
45°	10.7	10.7	11.4	10.7	10.7
47.5°	9.2	9.2	9.9	9.2	9.2
50°	8.5	8.5	8.5	8.5	8.5
52.5°	7.8	7.8	7.8	7.8	7.8
55°	7.1	7.1	7.1	7.1	7.1
57.5°	6.4	6.4	6.4	6.4	6.4
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.8	2.8	2.8	2.8	2.8
75°	2.1	2.1	2.1	2.1	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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