

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: P745785

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745785
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: LD4D30D010-EU4DR1515309040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 2763.8 lumens
Efficiency: N/A
Efficacy: 95.3 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): 29
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

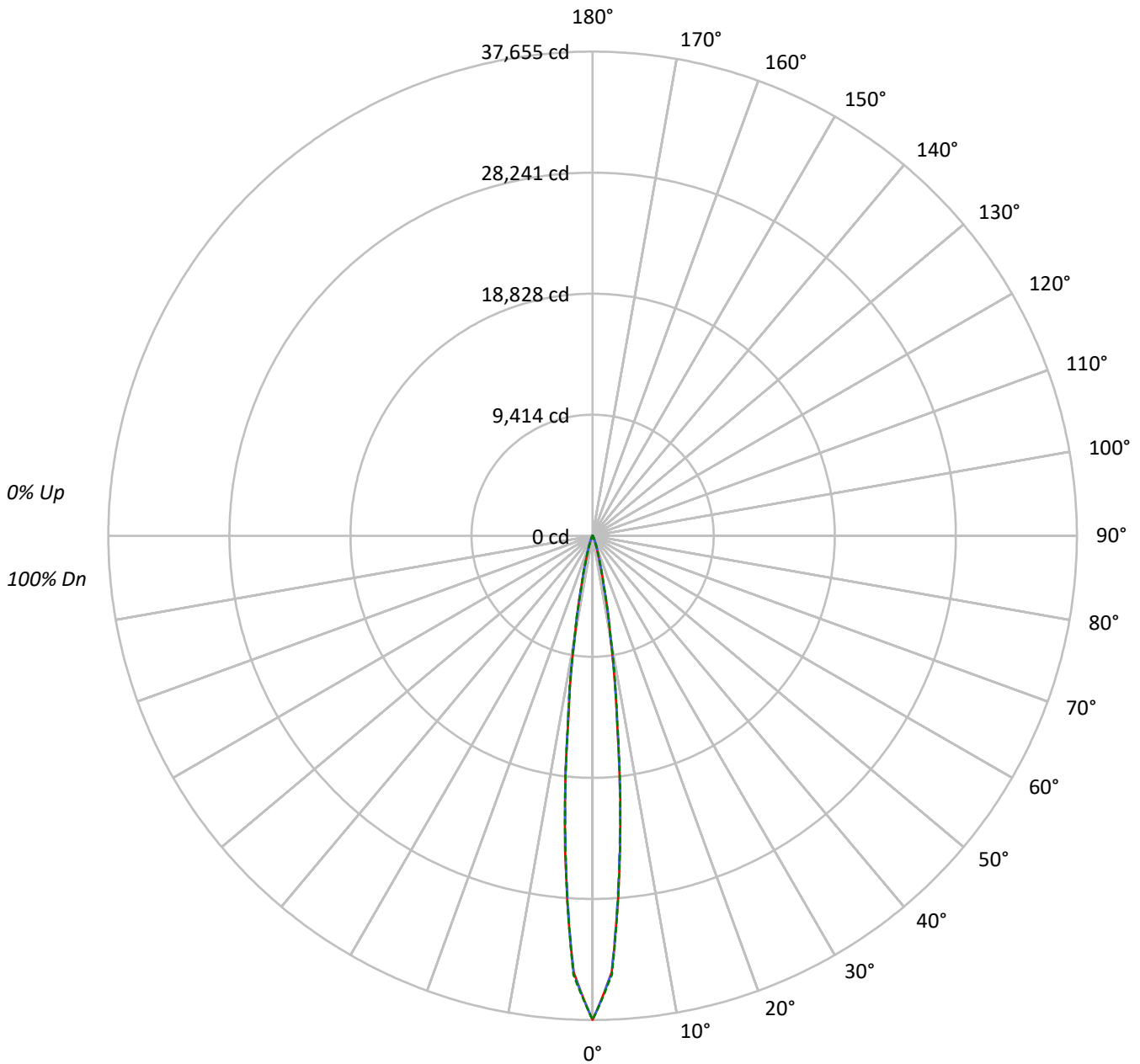


Downlight



TEST NUMBER: P745785
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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°	4236972	4236972	4236972
5°	2489847	2457610	2477052
10°	743102	748308	759766
15°	184840	188436	182625
20°	55304	64043	56474
25°	19499	24835	19748
30°	7159	9428	7278
35°	3587	4052	3471
40°	2265	2493	2265
45°	1673	1785	1673
50°	1328	1328	1328
55°	1107	1107	1107
60°	899	899	899
65°	685	685	685
70°	585	585	585
75°	363	363	484
80°	252	252	252
85°	133	133	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1785 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1792.5	64.9
10°-20°	737.3	26.7
20°-30°	146.4	5.3
30°-40°	36.5	1.3
40°-50°	19.2	0.7
50°-60°	14.2	0.5
60°-70°	10.1	0.4
70°-80°	5.7	0.2
80°-90°	1.7	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°	2676.2	96.8
0°-40°	2712.8	98.2
0°-60°	2746.2	99.4
0°-90°	2763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37655	37655	37655	37655	37655	
5°	24499	24248	24182	24350	24374	1789
15°	2128	2168	2170	2131	2103	730
25°	250	284	319	282	254	131
35°	49	53	56	53	48	34
45°	24	24	26	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37655.3	37655.3	37655.3	37655.3	37655.3
2.5°	33966.6	33995.3	34006.5	34039.9	34164.3
5°	24499.4	24247.5	24182.2	24349.5	24373.5
7.5°	14512.5	14563.5	14750.0	14791.5	14641.6
10°	7964.0	8029.4	8019.8	8077.2	8142.6
12.5°	4072.9	4021.9	4005.9	4071.3	3980.4
15°	2128.1	2167.9	2169.5	2131.3	2102.6
17.5°	1144.5	1190.8	1267.3	1205.1	1109.5
20°	675.9	717.3	782.7	731.7	690.2
22.5°	417.6	451.1	497.4	457.5	424.0
25°	250.3	283.7	318.8	282.2	253.5
27.5°	148.2	176.9	199.3	175.3	146.7
30°	95.6	111.6	125.9	110.0	97.2
32.5°	67.0	73.3	79.7	73.3	67.0
35°	49.4	52.6	55.8	52.6	47.8
37.5°	38.3	41.4	43.0	39.9	36.7
40°	31.9	33.5	35.1	33.5	31.9
42.5°	27.1	28.7	28.7	28.7	27.1
45°	23.9	23.9	25.5	23.9	23.9
47.5°	20.7	20.7	22.3	20.7	20.7
50°	19.1	19.1	19.1	19.1	19.1
52.5°	17.5	17.5	17.5	17.5	17.5
55°	15.9	15.9	15.9	15.9	15.9
57.5°	14.3	14.3	14.3	14.3	14.3
60°	12.8	12.8	12.8	12.8	12.8
62.5°	11.2	11.2	11.2	11.2	11.2
65°	9.6	9.6	9.6	9.6	9.6
67.5°	9.6	9.6	9.6	9.6	9.6
70°	8.0	8.0	8.0	8.0	8.0
72.5°	6.4	6.4	6.4	6.4	6.4
75°	4.8	4.8	4.8	4.8	6.4
77.5°	4.8	4.8	4.8	4.8	4.8
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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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