

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: P745756

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745756
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-EU4DR1515309027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2379.4 lumens
Efficiency: N/A
Efficacy: 82.0 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): 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



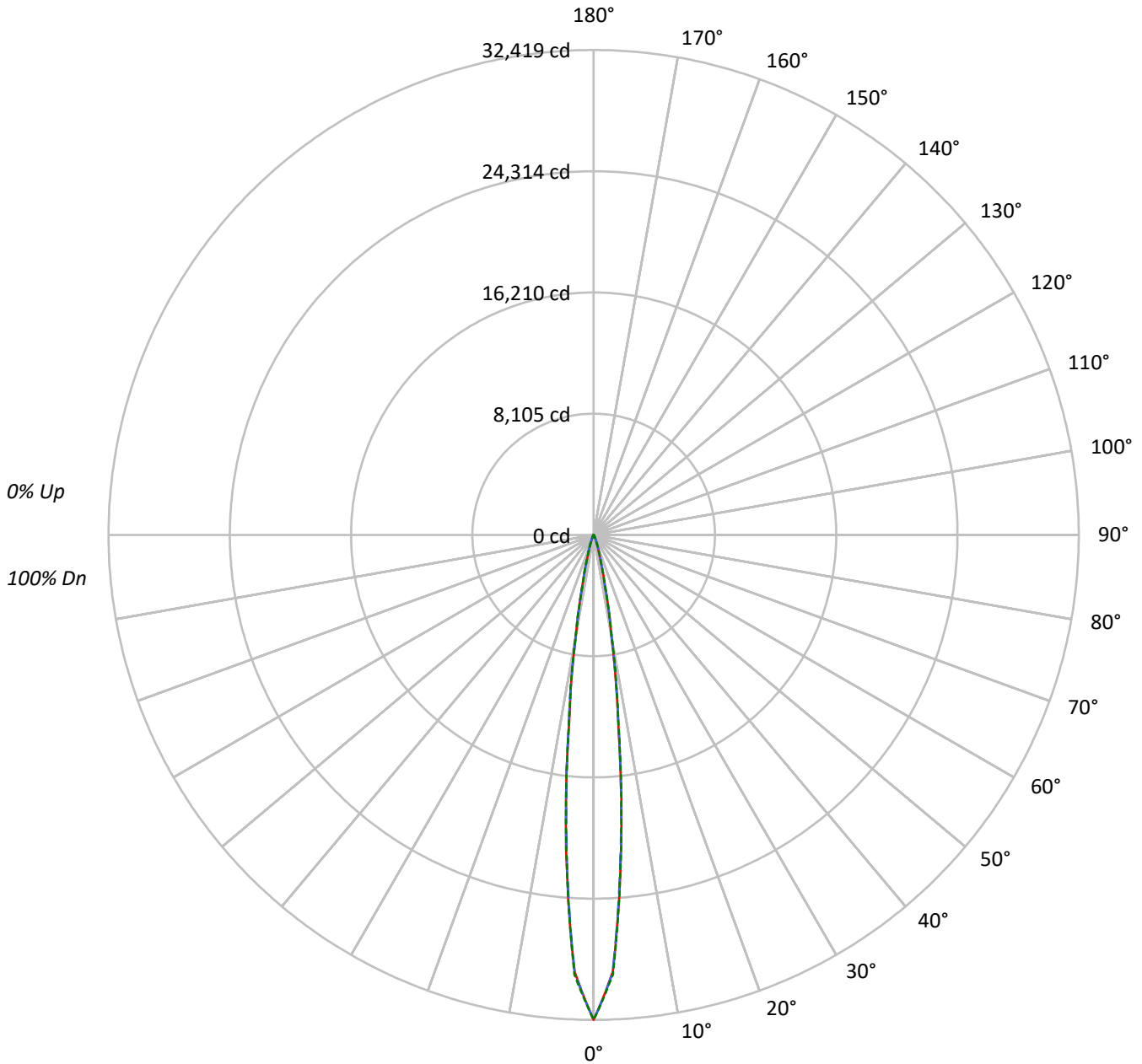
Downlight



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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°	3647750	3647750	3647750
5°	2143587	2115832	2132571
10°	639763	644242	654105
15°	159130	162231	157228
20°	47613	55132	48619
25°	16788	21384	16998
30°	6163	8117	6268
35°	3086	3486	2992
40°	1946	2145	1946
45°	1442	1540	1442
50°	1147	1147	1147
55°	954	954	954
60°	772	772	772
65°	585	585	585
70°	505	505	505
75°	310	310	416
80°	213	213	213
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1540 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1543.2	64.9
10°-20°	634.8	26.7
20°-30°	126.1	5.3
30°-40°	31.5	1.3
40°-50°	16.5	0.7
50°-60°	12.3	0.5
60°-70°	8.7	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2304.0	96.8
0°-40°	2335.5	98.2
0°-60°	2364.3	99.4
0°-90°	2379.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2379.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32419	32419	32419	32419	32419	
5°	21092	20876	20819	20963	20984	1540
15°	1832	1866	1868	1835	1810	628
25°	216	244	274	243	218	113
35°	42	45	48	45	41	29
45°	21	21	22	21	21	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
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°	32418.7	32418.7	32418.7	32418.7	32418.7
2.5°	29243.0	29267.7	29277.3	29306.1	29413.2
5°	21092.3	20875.5	20819.2	20963.3	20983.9
7.5°	12494.3	12538.2	12698.8	12734.4	12605.4
10°	6856.5	6912.8	6904.5	6953.9	7010.2
12.5°	3506.5	3462.6	3448.8	3505.1	3426.9
15°	1832.1	1866.5	1867.8	1834.9	1810.2
17.5°	985.4	1025.2	1091.1	1037.5	955.2
20°	581.9	617.6	673.8	629.9	594.2
22.5°	359.6	388.4	428.2	393.9	365.1
25°	215.5	244.3	274.5	242.9	218.2
27.5°	127.6	152.3	171.5	151.0	126.3
30°	82.3	96.1	108.4	94.7	83.7
32.5°	57.6	63.1	68.6	63.1	57.6
35°	42.5	45.3	48.0	45.3	41.2
37.5°	32.9	35.7	37.1	34.3	31.6
40°	27.4	28.8	30.2	28.8	27.4
42.5°	23.3	24.7	24.7	24.7	23.3
45°	20.6	20.6	22.0	20.6	20.6
47.5°	17.8	17.8	19.2	17.8	17.8
50°	16.5	16.5	16.5	16.5	16.5
52.5°	15.1	15.1	15.1	15.1	15.1
55°	13.7	13.7	13.7	13.7	13.7
57.5°	12.4	12.4	12.4	12.4	12.4
60°	11.0	11.0	11.0	11.0	11.0
62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.2	8.2	8.2	8.2	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	6.9	6.9	6.9	6.9	6.9
72.5°	5.5	5.5	5.5	5.5	5.5
75°	4.1	4.1	4.1	4.1	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
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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