

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: P745750

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745750
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-EU4DR1515309027-4LBDP1MW
Description: 4 INCH ROUND 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: 2537.2 lumens
Efficiency: N/A
Efficacy: 87.5 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 (A_{in}): 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

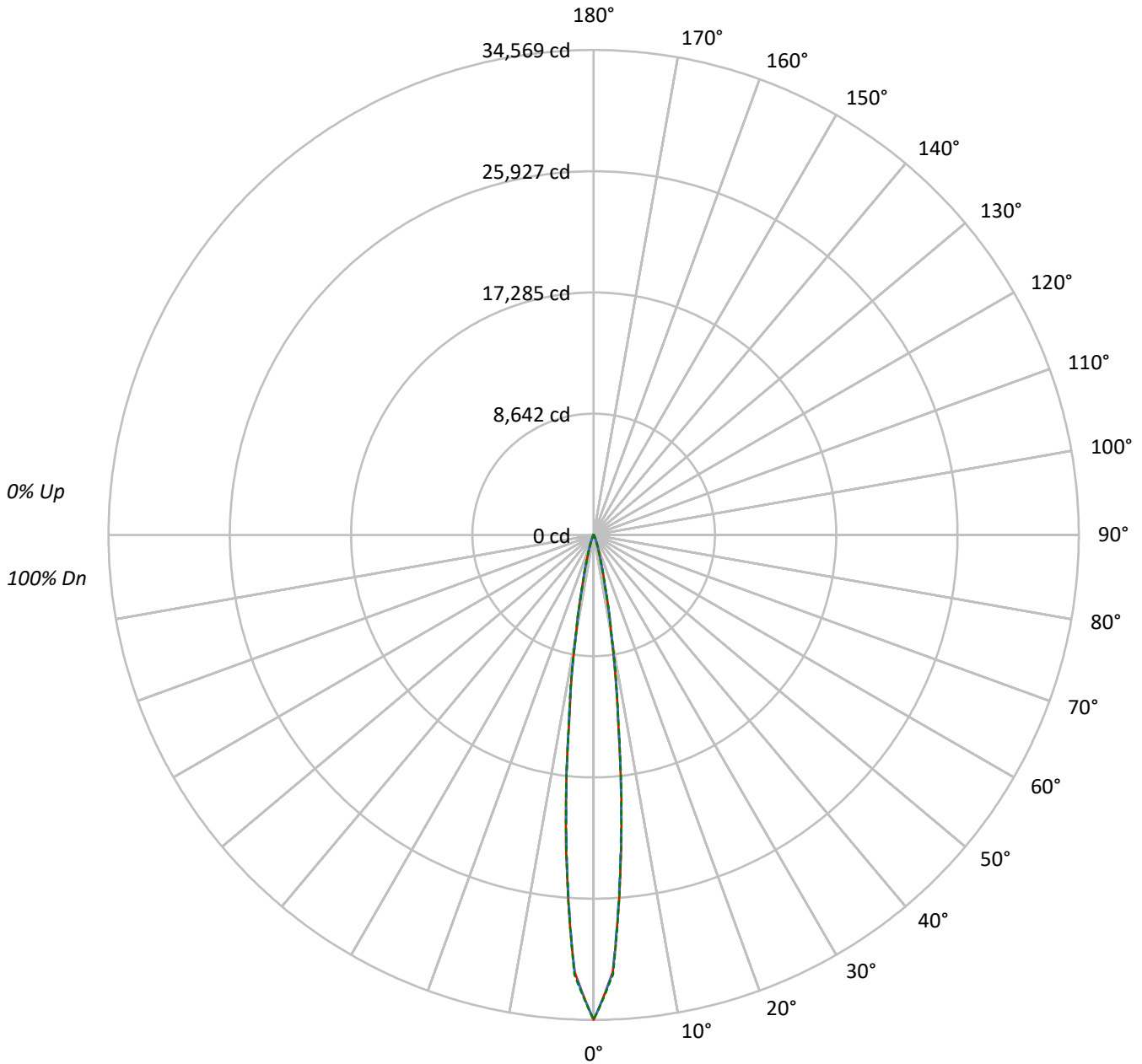


Downlight



TEST NUMBER: P745750
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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°	3889668	3889668	3889668
5°	2285756	2256162	2274008
10°	682190	686968	697484
15°	169692	172993	167651
20°	50771	58790	51851
25°	17902	22802	18127
30°	6575	8656	6687
35°	3297	3718	3188
40°	2081	2287	2081
45°	1540	1638	1540
50°	1224	1224	1224
55°	1016	1016	1016
60°	821	821	821
65°	628	628	628
70°	534	534	534
75°	333	333	446
80°	229	229	229
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1645.5	64.9
10°-20°	676.9	26.7
20°-30°	134.4	5.3
30°-40°	33.6	1.3
40°-50°	17.6	0.7
50°-60°	13.1	0.5
60°-70°	9.2	0.4
70°-80°	5.3	0.2
80°-90°	1.6	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°	2456.8	96.8
0°-40°	2490.4	98.2
0°-60°	2521.1	99.4
0°-90°	2537.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2537.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34569	34569	34569	34569	34569	
5°	22491	22260	22200	22354	22376	1642
15°	1954	1990	1992	1957	1930	670
25°	230	260	293	259	233	121
35°	45	48	51	48	44	31
45°	22	22	23	22	22	17
55°	15	15	15	15	15	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
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°	34568.7	34568.7	34568.7	34568.7	34568.7
2.5°	31182.4	31208.7	31219.0	31249.7	31363.9
5°	22491.2	22260.0	22200.0	22353.6	22375.6
7.5°	13322.9	13369.7	13541.0	13579.0	13441.4
10°	7311.2	7371.2	7362.4	7415.1	7475.1
12.5°	3739.0	3692.2	3677.6	3737.6	3654.1
15°	1953.7	1990.2	1991.7	1956.6	1930.2
17.5°	1050.7	1093.2	1163.4	1106.3	1018.5
20°	620.5	658.5	718.5	671.7	633.7
22.5°	383.4	414.1	456.6	420.0	389.3
25°	229.8	260.5	292.7	259.0	232.7
27.5°	136.1	162.4	182.9	161.0	134.6
30°	87.8	102.4	115.6	101.0	89.3
32.5°	61.5	67.3	73.2	67.3	61.5
35°	45.4	48.3	51.2	48.3	43.9
37.5°	35.1	38.0	39.5	36.6	33.7
40°	29.3	30.7	32.2	30.7	29.3
42.5°	24.9	26.3	26.3	26.3	24.9
45°	22.0	22.0	23.4	22.0	22.0
47.5°	19.0	19.0	20.5	19.0	19.0
50°	17.6	17.6	17.6	17.6	17.6
52.5°	16.1	16.1	16.1	16.1	16.1
55°	14.6	14.6	14.6	14.6	14.6
57.5°	13.2	13.2	13.2	13.2	13.2
60°	11.7	11.7	11.7	11.7	11.7
62.5°	10.2	10.2	10.2	10.2	10.2
65°	8.8	8.8	8.8	8.8	8.8
67.5°	8.8	8.8	8.8	8.8	8.8
70°	7.3	7.3	7.3	7.3	7.3
72.5°	5.9	5.9	5.9	5.9	5.9
75°	4.4	4.4	4.4	4.4	5.9
77.5°	4.4	4.4	4.4	4.4	4.4
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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