

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: P744814

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744814
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: LD4D25D010-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: 2257.3 lumens
Efficiency: N/A
Efficacy: 89.9 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): 25.1
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



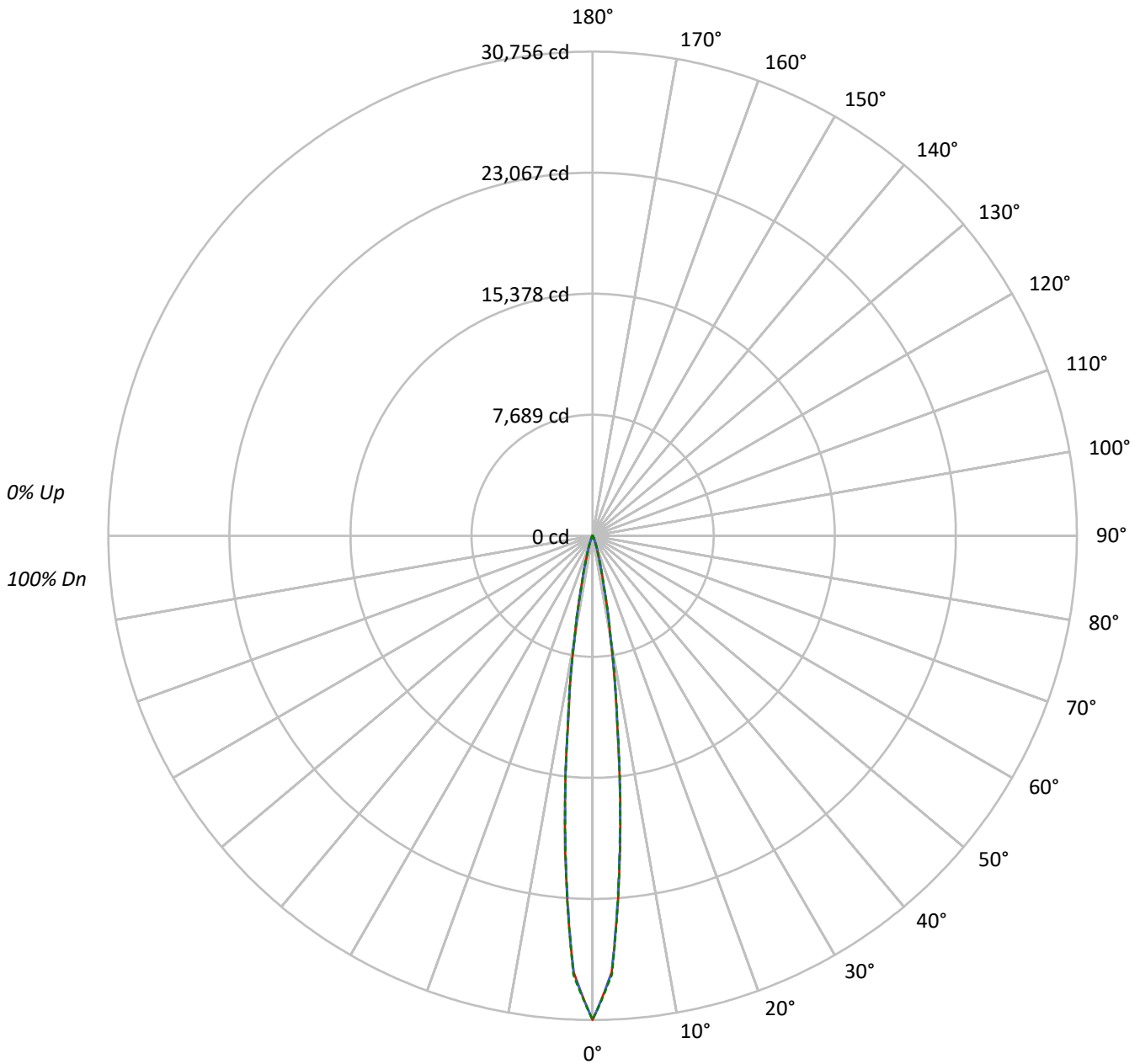
Downlight



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3460686	3460686	3460686
5°	2033666	2007333	2023208
10°	606957	611202	620561
15°	150975	153910	149168
20°	45174	52309	46132
25°	15923	20285	16125
30°	5848	7705	5946
35°	2934	3311	2839
40°	1846	2031	1846
45°	1365	1456	1365
50°	1085	1085	1085
55°	905	905	905
60°	730	730	730
65°	557	557	557
70°	475	475	475
75°	295	295	393
80°	205	205	205
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1464.1	64.9
10°-20°	602.2	26.7
20°-30°	119.6	5.3
30°-40°	29.9	1.3
40°-50°	15.7	0.7
50°-60°	11.6	0.5
60°-70°	8.2	0.4
70°-80°	4.7	0.2
80°-90°	1.4	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°	2185.9	96.8
0°-40°	2215.7	98.2
0°-60°	2243.0	99.4
0°-90°	2257.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30756	30756	30756	30756	30756	
5°	20011	19805	19752	19888	19908	1461
15°	1738	1771	1772	1741	1717	596
25°	204	232	260	230	207	107
35°	40	43	46	43	39	27
45°	20	20	21	20	20	15
55°	13	13	13	13	13	12
65°	8	8	8	8	8	8
75°	4	4	4	4	5	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°	30756.2	30756.2	30756.2	30756.2	30756.2
2.5°	27743.3	27766.8	27775.9	27803.2	27904.8
5°	20010.7	19804.9	19751.6	19888.3	19907.8
7.5°	11853.5	11895.2	12047.5	12081.4	11959.0
10°	6504.9	6558.2	6550.4	6597.3	6650.7
12.5°	3326.6	3285.0	3272.0	3325.3	3251.1
15°	1738.2	1770.7	1772.0	1740.8	1717.4
17.5°	934.8	972.6	1035.1	984.3	906.2
20°	552.1	585.9	639.3	597.6	563.8
22.5°	341.1	368.5	406.2	373.7	346.3
25°	204.4	231.8	260.4	230.5	207.0
27.5°	121.1	144.5	162.8	143.2	119.8
30°	78.1	91.1	102.9	89.8	79.4
32.5°	54.7	59.9	65.1	59.9	54.7
35°	40.4	43.0	45.6	43.0	39.1
37.5°	31.2	33.9	35.2	32.6	29.9
40°	26.0	27.3	28.6	27.3	26.0
42.5°	22.1	23.4	23.4	23.4	22.1
45°	19.5	19.5	20.8	19.5	19.5
47.5°	16.9	16.9	18.2	16.9	16.9
50°	15.6	15.6	15.6	15.6	15.6
52.5°	14.3	14.3	14.3	14.3	14.3
55°	13.0	13.0	13.0	13.0	13.0
57.5°	11.7	11.7	11.7	11.7	11.7
60°	10.4	10.4	10.4	10.4	10.4
62.5°	9.1	9.1	9.1	9.1	9.1
65°	7.8	7.8	7.8	7.8	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	6.5	6.5	6.5	6.5	6.5
72.5°	5.2	5.2	5.2	5.2	5.2
75°	3.9	3.9	3.9	3.9	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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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