

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: P744866

Luminaire Tested: LD4D25D010-EU4DR1515309050-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744866
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-EU4DR1515309050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.8 lumens
Efficiency: N/A
Efficacy: 99.6 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



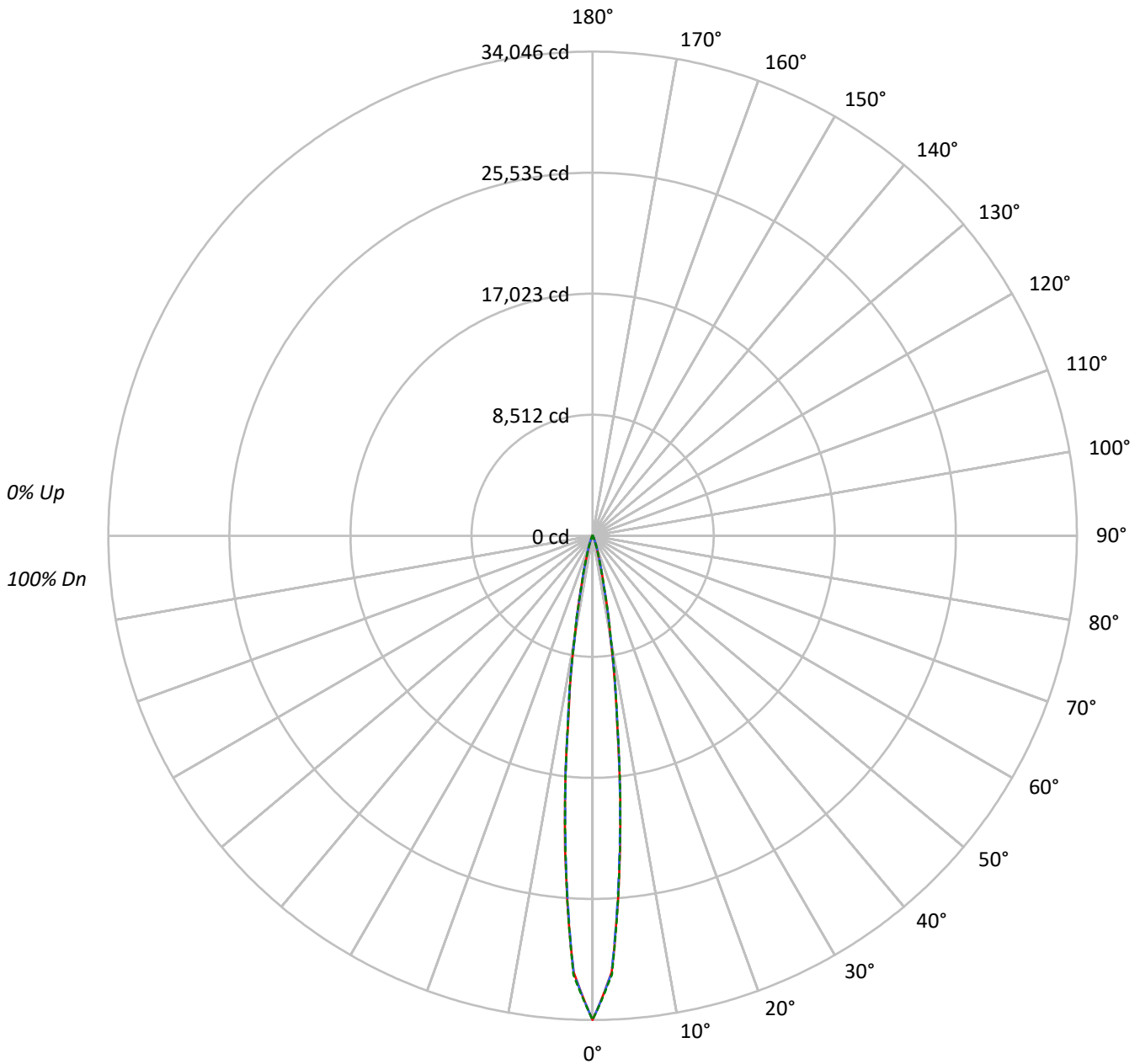
Downlight



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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	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°	3830899	3830899	3830899
5°	2251212	2222065	2239647
10°	671880	676592	686949
15°	167121	170378	165124
20°	50002	57906	51066
25°	17629	22459	17855
30°	6477	8529	6582
35°	3246	3660	3137
40°	2045	2251	2045
45°	1512	1617	1512
50°	1203	1203	1203
55°	1002	1002	1002
60°	807	807	807
65°	614	614	614
70°	527	527	527
75°	325	325	438
80°	229	229	229
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1620.7	64.9
10°-20°	666.6	26.7
20°-30°	132.4	5.3
30°-40°	33.0	1.3
40°-50°	17.4	0.7
50°-60°	12.9	0.5
60°-70°	9.1	0.4
70°-80°	5.2	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°	2419.7	96.8
0°-40°	2452.8	98.2
0°-60°	2483.0	99.4
0°-90°	2498.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34046	34046	34046	34046	34046	
5°	22151	21924	21864	22016	22038	1618
15°	1924	1960	1962	1927	1901	660
25°	226	257	288	255	229	119
35°	45	48	50	48	43	30
45°	22	22	23	22	22	17
55°	14	14	14	14	14	13
65°	9	9	9	9	9	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34046.4	34046.4	34046.4	34046.4	34046.4
2.5°	30711.2	30737.2	30747.2	30777.5	30889.9
5°	22151.3	21923.6	21864.5	22015.8	22037.5
7.5°	13121.6	13167.7	13336.3	13373.8	13238.3
10°	7200.7	7259.8	7251.2	7303.1	7362.2
12.5°	3682.5	3636.4	3622.0	3681.1	3598.9
15°	1924.1	1960.2	1961.6	1927.0	1901.1
17.5°	1034.9	1076.7	1145.8	1089.6	1003.1
20°	611.1	648.6	707.7	661.6	624.1
22.5°	377.6	407.9	449.7	413.7	383.4
25°	226.3	256.6	288.3	255.1	229.2
27.5°	134.0	160.0	180.2	158.5	132.6
30°	86.5	100.9	113.9	99.4	87.9
32.5°	60.5	66.3	72.1	66.3	60.5
35°	44.7	47.6	50.4	47.6	43.2
37.5°	34.6	37.5	38.9	36.0	33.1
40°	28.8	30.3	31.7	30.3	28.8
42.5°	24.5	25.9	25.9	25.9	24.5
45°	21.6	21.6	23.1	21.6	21.6
47.5°	18.7	18.7	20.2	18.7	18.7
50°	17.3	17.3	17.3	17.3	17.3
52.5°	15.9	15.9	15.9	15.9	15.9
55°	14.4	14.4	14.4	14.4	14.4
57.5°	13.0	13.0	13.0	13.0	13.0
60°	11.5	11.5	11.5	11.5	11.5
62.5°	10.1	10.1	10.1	10.1	10.1
65°	8.6	8.6	8.6	8.6	8.6
67.5°	8.6	8.6	8.6	8.6	8.6
70°	7.2	7.2	7.2	7.2	7.2
72.5°	5.8	5.8	5.8	5.8	5.8
75°	4.3	4.3	4.3	4.3	5.8
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9
85°	1.4	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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