

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: P744833

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744833
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-EU4DR1515309030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.9 lumens
Efficiency: N/A
Efficacy: 87.1 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



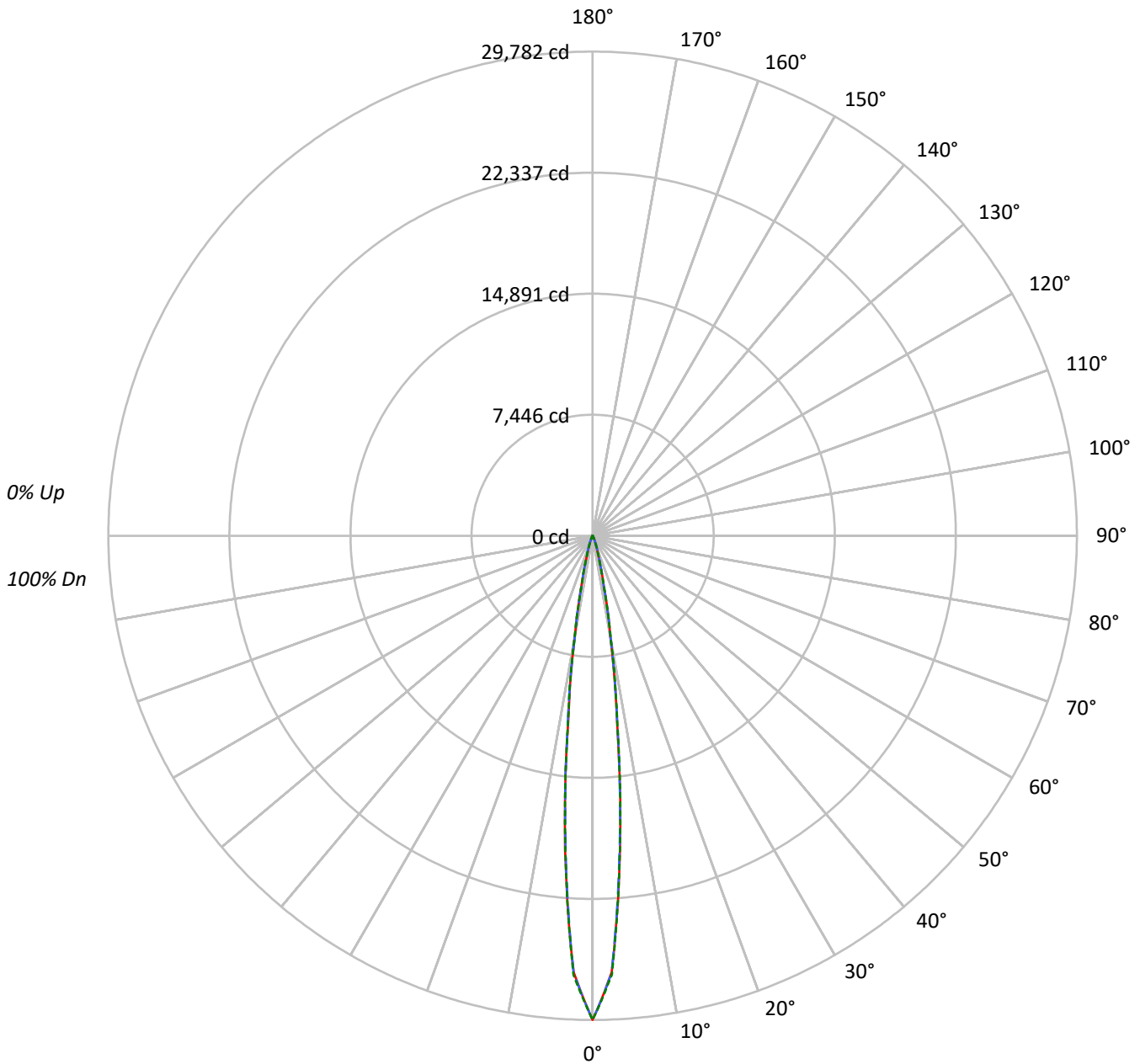
Downlight



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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°	3351114	3351114	3351114
5°	1969273	1943775	1959151
10°	587735	591850	600910
15°	146197	149038	144443
20°	43742	50648	44667
25°	15417	19647	15619
30°	5661	7458	5758
35°	2839	3203	2745
40°	1790	1967	1790
45°	1323	1414	1323
50°	1050	1050	1050
55°	877	877	877
60°	709	709	709
65°	542	542	542
70°	461	461	461
75°	287	287	378
80°	197	197	197
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1417.7	64.9
10°-20°	583.1	26.7
20°-30°	115.8	5.3
30°-40°	28.9	1.3
40°-50°	15.2	0.7
50°-60°	11.3	0.5
60°-70°	8.0	0.4
70°-80°	4.5	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°	2116.7	96.8
0°-40°	2145.6	98.2
0°-60°	2172.0	99.4
0°-90°	2185.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29782	29782	29782	29782	29782	
5°	19377	19178	19126	19259	19278	1415
15°	1683	1715	1716	1686	1663	577
25°	198	224	252	223	200	104
35°	39	42	44	42	38	27
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	4
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°	29782.4	29782.4	29782.4	29782.4	29782.4
2.5°	26864.9	26887.6	26896.4	26922.9	27021.2
5°	19377.1	19177.9	19126.2	19258.6	19277.5
7.5°	11478.2	11518.6	11666.1	11698.9	11580.3
10°	6298.9	6350.6	6343.0	6388.4	6440.1
12.5°	3221.3	3181.0	3168.4	3220.1	3148.2
15°	1683.2	1714.7	1715.9	1685.7	1663.0
17.5°	905.2	941.8	1002.3	953.2	877.5
20°	534.6	567.4	619.0	578.7	545.9
22.5°	330.3	356.8	393.4	361.8	335.4
25°	197.9	224.4	252.2	223.2	200.5
27.5°	117.3	139.9	157.6	138.7	116.0
30°	75.6	88.3	99.6	87.0	76.9
32.5°	53.0	58.0	63.0	58.0	53.0
35°	39.1	41.6	44.1	41.6	37.8
37.5°	30.3	32.8	34.0	31.5	29.0
40°	25.2	26.5	27.7	26.5	25.2
42.5°	21.4	22.7	22.7	22.7	21.4
45°	18.9	18.9	20.2	18.9	18.9
47.5°	16.4	16.4	17.7	16.4	16.4
50°	15.1	15.1	15.1	15.1	15.1
52.5°	13.9	13.9	13.9	13.9	13.9
55°	12.6	12.6	12.6	12.6	12.6
57.5°	11.3	11.3	11.3	11.3	11.3
60°	10.1	10.1	10.1	10.1	10.1
62.5°	8.8	8.8	8.8	8.8	8.8
65°	7.6	7.6	7.6	7.6	7.6
67.5°	7.6	7.6	7.6	7.6	7.6
70°	6.3	6.3	6.3	6.3	6.3
72.5°	5.0	5.0	5.0	5.0	5.0
75°	3.8	3.8	3.8	3.8	5.0
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
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





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

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