

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: P744832

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744832
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-EU4DR1515309030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 82.9 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 (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



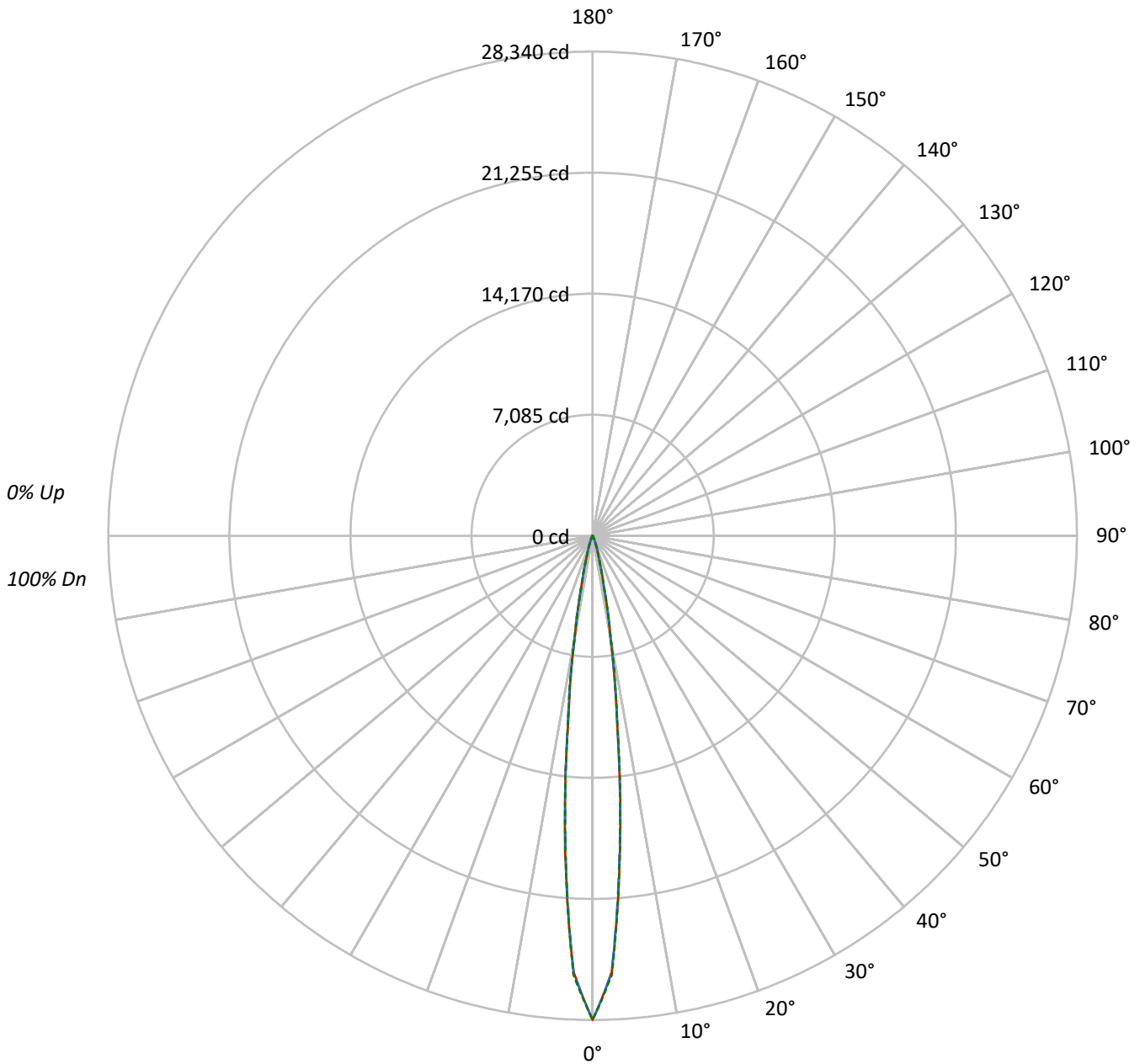
Downlight



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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°	3188770	3188770	3188770
5°	1873874	1849605	1864240
10°	559267	563186	571798
15°	139110	141820	137442
20°	41623	48202	42507
25°	14676	18688	14863
30°	5391	7099	5481
35°	2701	3050	2614
40°	1704	1875	1704
45°	1260	1344	1260
50°	1001	1001	1001
55°	835	835	835
60°	674	674	674
65°	514	514	514
70°	439	439	439
75°	272	272	363
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.0	64.9
10°-20°	554.9	26.7
20°-30°	110.2	5.3
30°-40°	27.5	1.3
40°-50°	14.5	0.7
50°-60°	10.7	0.5
60°-70°	7.6	0.4
70°-80°	4.3	0.2
80°-90°	1.3	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°	2014.1	96.8
0°-40°	2041.6	98.2
0°-60°	2066.8	99.4
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28340	28340	28340	28340	28340	
5°	18438	18249	18200	18326	18344	1346
15°	1602	1632	1633	1604	1582	549
25°	188	214	240	212	191	99
35°	37	40	42	40	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	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°	28339.6	28339.6	28339.6	28339.6	28339.6
2.5°	25563.5	25585.1	25593.5	25618.7	25712.2
5°	18438.4	18248.8	18199.6	18325.6	18343.6
7.5°	10922.2	10960.6	11100.9	11132.1	11019.4
10°	5993.8	6043.0	6035.8	6078.9	6128.1
12.5°	3065.3	3026.9	3014.9	3064.1	2995.7
15°	1601.6	1631.6	1632.8	1604.0	1582.4
17.5°	861.4	896.2	953.8	907.0	835.0
20°	508.7	539.9	589.1	550.7	519.5
22.5°	314.3	339.5	374.3	344.3	319.1
25°	188.4	213.5	239.9	212.3	190.8
27.5°	111.6	133.2	150.0	132.0	110.4
30°	72.0	84.0	94.8	82.8	73.2
32.5°	50.4	55.2	60.0	55.2	50.4
35°	37.2	39.6	42.0	39.6	36.0
37.5°	28.8	31.2	32.4	30.0	27.6
40°	24.0	25.2	26.4	25.2	24.0
42.5°	20.4	21.6	21.6	21.6	20.4
45°	18.0	18.0	19.2	18.0	18.0
47.5°	15.6	15.6	16.8	15.6	15.6
50°	14.4	14.4	14.4	14.4	14.4
52.5°	13.2	13.2	13.2	13.2	13.2
55°	12.0	12.0	12.0	12.0	12.0
57.5°	10.8	10.8	10.8	10.8	10.8
60°	9.6	9.6	9.6	9.6	9.6
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.2	7.2	7.2	7.2	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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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