

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: P744795

Luminaire Tested: LD4D25D010-EU4DR1515309024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744795
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-EU4DR1515309024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.4 lumens
Efficiency: N/A
Efficacy: 76.6 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 (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

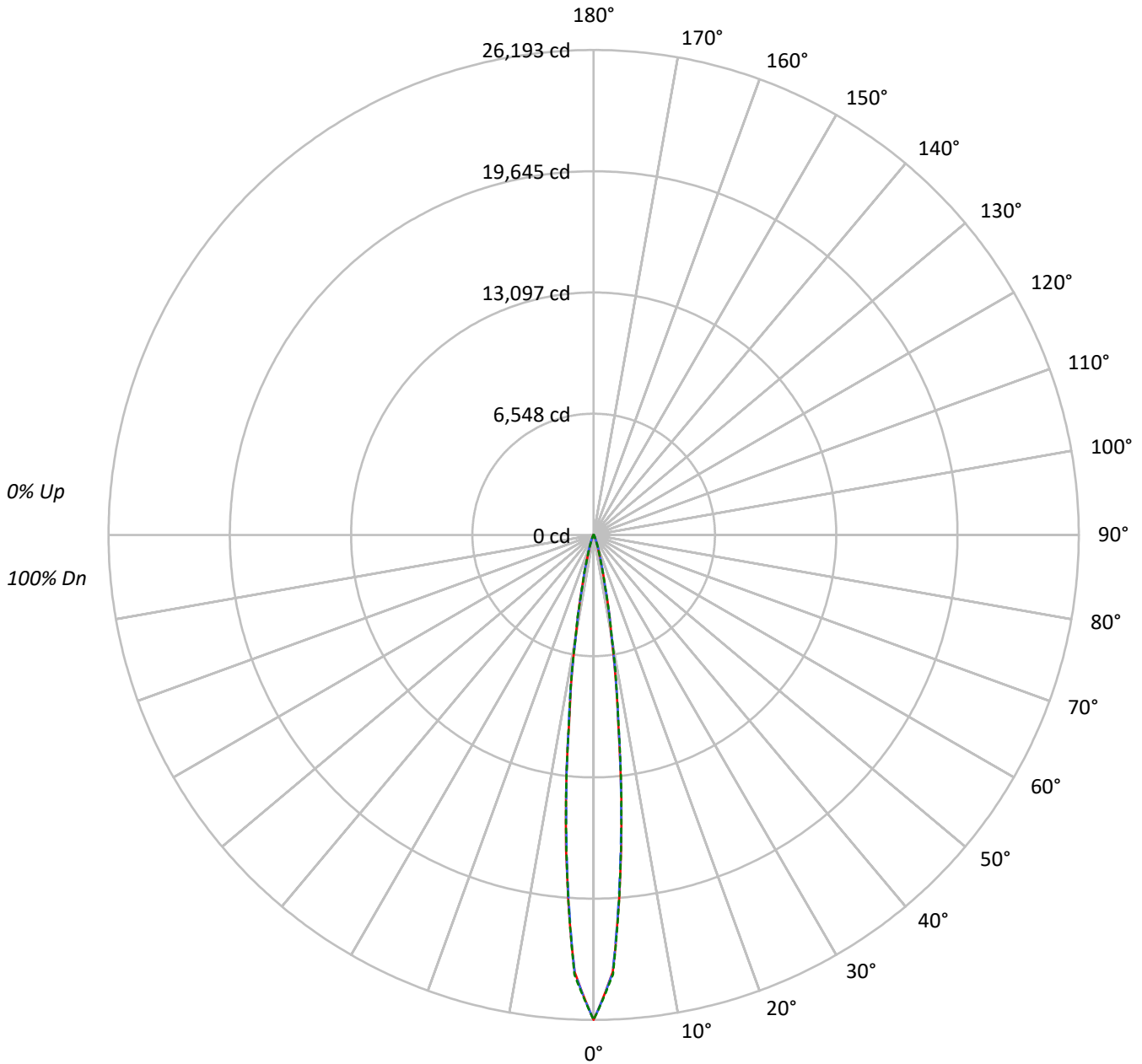


Downlight



TEST NUMBER: P744795
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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°	2947224	2947224	2947224
5°	1731929	1709500	1723027
10°	516896	520516	528485
15°	128574	131076	127037
20°	38465	44544	39283
25°	13563	17278	13734
30°	4980	6560	5062
35°	2498	2818	2418
40°	1577	1733	1577
45°	1162	1239	1162
50°	925	925	925
55°	773	773	773
60°	625	625	625
65°	478	478	478
70°	402	402	402
75°	249	249	333
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1239 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1246.8	64.9
10°-20°	512.9	26.7
20°-30°	101.9	5.3
30°-40°	25.4	1.3
40°-50°	13.4	0.7
50°-60°	9.9	0.5
60°-70°	7.0	0.4
70°-80°	4.0	0.2
80°-90°	1.2	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°	1861.6	96.8
0°-40°	1887.0	98.2
0°-60°	1910.3	99.4
0°-90°	1922.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26193	26193	26193	26193	26193	
5°	17042	16866	16821	16937	16954	1244
15°	1480	1508	1509	1482	1463	508
25°	174	197	222	196	176	91
35°	34	37	39	37	33	23
45°	17	17	18	17	17	13
55°	11	11	11	11	11	10
65°	7	7	7	7	7	7
75°	3	3	3	3	4	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°	26192.9	26192.9	26192.9	26192.9	26192.9
2.5°	23627.0	23647.0	23654.8	23678.0	23764.5
5°	17041.7	16866.5	16821.0	16937.4	16954.1
7.5°	10094.8	10130.3	10260.0	10288.9	10184.6
10°	5539.7	5585.2	5578.5	5618.5	5663.9
12.5°	2833.1	2797.6	2786.5	2832.0	2768.8
15°	1480.3	1508.0	1509.1	1482.5	1462.6
17.5°	796.1	828.3	881.5	838.3	771.7
20°	470.1	499.0	544.4	509.0	480.1
22.5°	290.5	313.8	346.0	318.2	294.9
25°	174.1	197.4	221.8	196.3	176.3
27.5°	103.1	123.1	138.6	122.0	102.0
30°	66.5	77.6	87.6	76.5	67.6
32.5°	46.6	51.0	55.4	51.0	46.6
35°	34.4	36.6	38.8	36.6	33.3
37.5°	26.6	28.8	29.9	27.7	25.5
40°	22.2	23.3	24.4	23.3	22.2
42.5°	18.9	20.0	20.0	20.0	18.9
45°	16.6	16.6	17.7	16.6	16.6
47.5°	14.4	14.4	15.5	14.4	14.4
50°	13.3	13.3	13.3	13.3	13.3
52.5°	12.2	12.2	12.2	12.2	12.2
55°	11.1	11.1	11.1	11.1	11.1
57.5°	10.0	10.0	10.0	10.0	10.0
60°	8.9	8.9	8.9	8.9	8.9
62.5°	7.8	7.8	7.8	7.8	7.8
65°	6.7	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	5.5	5.5	5.5	5.5	5.5
72.5°	4.4	4.4	4.4	4.4	4.4
75°	3.3	3.3	3.3	3.3	4.4
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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