

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: P744828

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744828
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-EU4DR1515309030-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 2377.5 lumens
Efficiency: N/A
Efficacy: 94.7 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

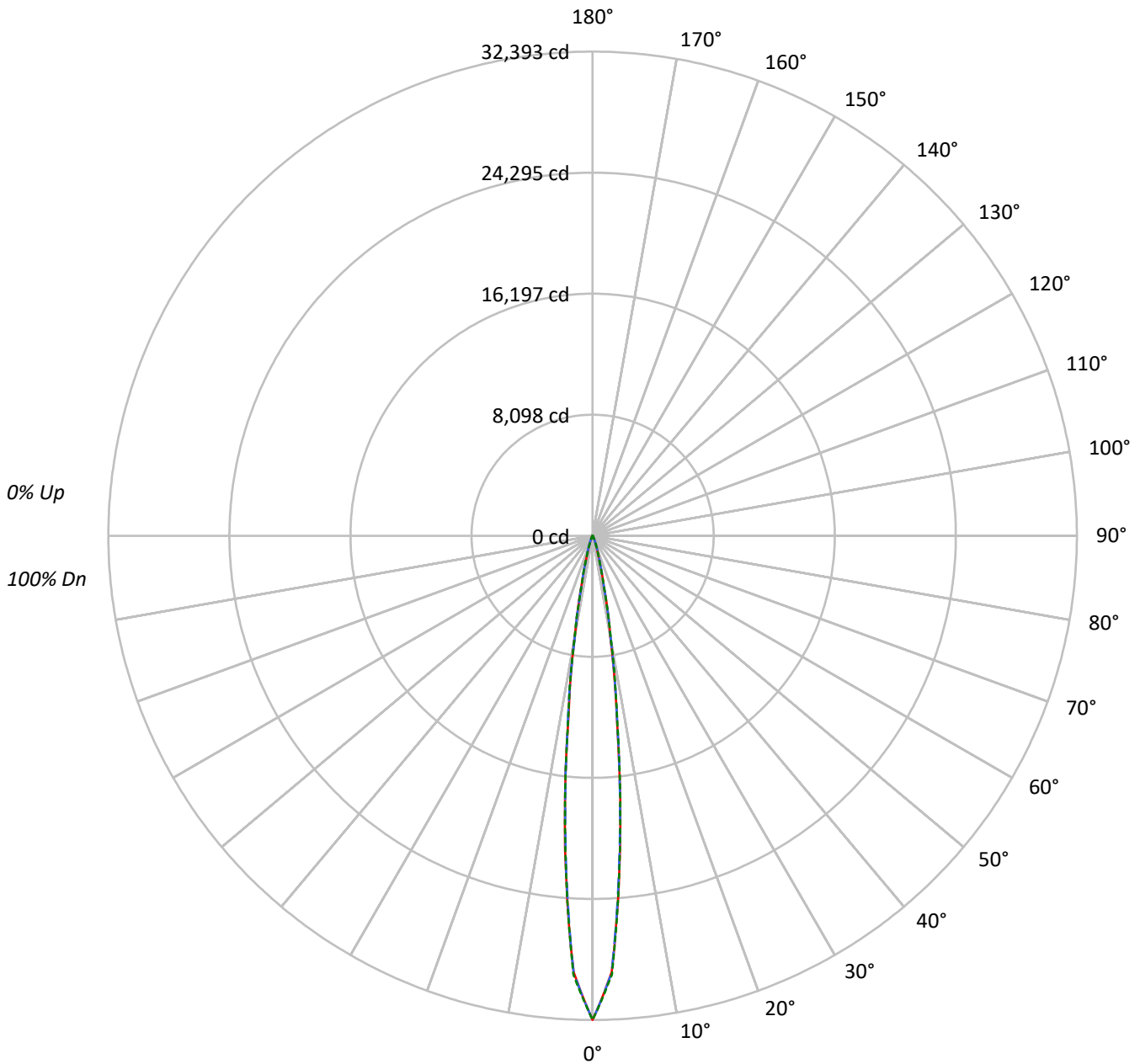


Downlight



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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°	3644859	3644859	3644859
5°	2141890	2114156	2130884
10°	639260	643738	653582
15°	159009	162110	157107
20°	47572	55091	48586
25°	16772	21368	16982
30°	6163	8110	6260
35°	3086	3486	2985
40°	1946	2145	1946
45°	1442	1533	1442
50°	1147	1147	1147
55°	954	954	954
60°	772	772	772
65°	585	585	585
70°	505	505	505
75°	310	310	416
80°	213	213	213
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1542.0	64.9
10°-20°	634.3	26.7
20°-30°	126.0	5.3
30°-40°	31.4	1.3
40°-50°	16.5	0.7
50°-60°	12.3	0.5
60°-70°	8.7	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2302.2	96.8
0°-40°	2333.7	98.2
0°-60°	2362.4	99.4
0°-90°	2377.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2377.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32393	32393	32393	32393	32393	
5°	21076	20859	20803	20947	20967	1539
15°	1831	1865	1866	1833	1809	628
25°	215	244	274	243	218	113
35°	42	45	48	45	41	29
45°	21	21	22	21	21	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	6	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°	32393.0	32393.0	32393.0	32393.0	32393.0
2.5°	29219.8	29244.5	29254.1	29282.9	29389.9
5°	21075.6	20859.0	20802.7	20946.7	20967.3
7.5°	12484.4	12528.3	12688.7	12724.4	12595.5
10°	6851.1	6907.3	6899.1	6948.4	7004.6
12.5°	3503.7	3459.8	3446.1	3502.3	3424.2
15°	1830.7	1865.0	1866.4	1833.4	1808.8
17.5°	984.6	1024.4	1090.2	1036.7	954.4
20°	581.4	617.1	673.3	629.4	593.8
22.5°	359.3	388.1	427.8	393.6	364.8
25°	215.3	244.1	274.3	242.7	218.0
27.5°	127.5	152.2	171.4	150.8	126.2
30°	82.3	96.0	108.3	94.6	83.6
32.5°	57.6	63.1	68.6	63.1	57.6
35°	42.5	45.3	48.0	45.3	41.1
37.5°	32.9	35.7	37.0	34.3	31.5
40°	27.4	28.8	30.2	28.8	27.4
42.5°	23.3	24.7	24.7	24.7	23.3
45°	20.6	20.6	21.9	20.6	20.6
47.5°	17.8	17.8	19.2	17.8	17.8
50°	16.5	16.5	16.5	16.5	16.5
52.5°	15.1	15.1	15.1	15.1	15.1
55°	13.7	13.7	13.7	13.7	13.7
57.5°	12.3	12.3	12.3	12.3	12.3
60°	11.0	11.0	11.0	11.0	11.0
62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.2	8.2	8.2	8.2	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	6.9	6.9	6.9	6.9	6.9
72.5°	5.5	5.5	5.5	5.5	5.5
75°	4.1	4.1	4.1	4.1	5.5
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
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

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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