

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: P744841

Luminaire Tested: LD4D25D010-EU4DR1515309035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744841
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-EU4DR1515309035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.9 lumens
Efficiency: N/A
Efficacy: 100.0 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

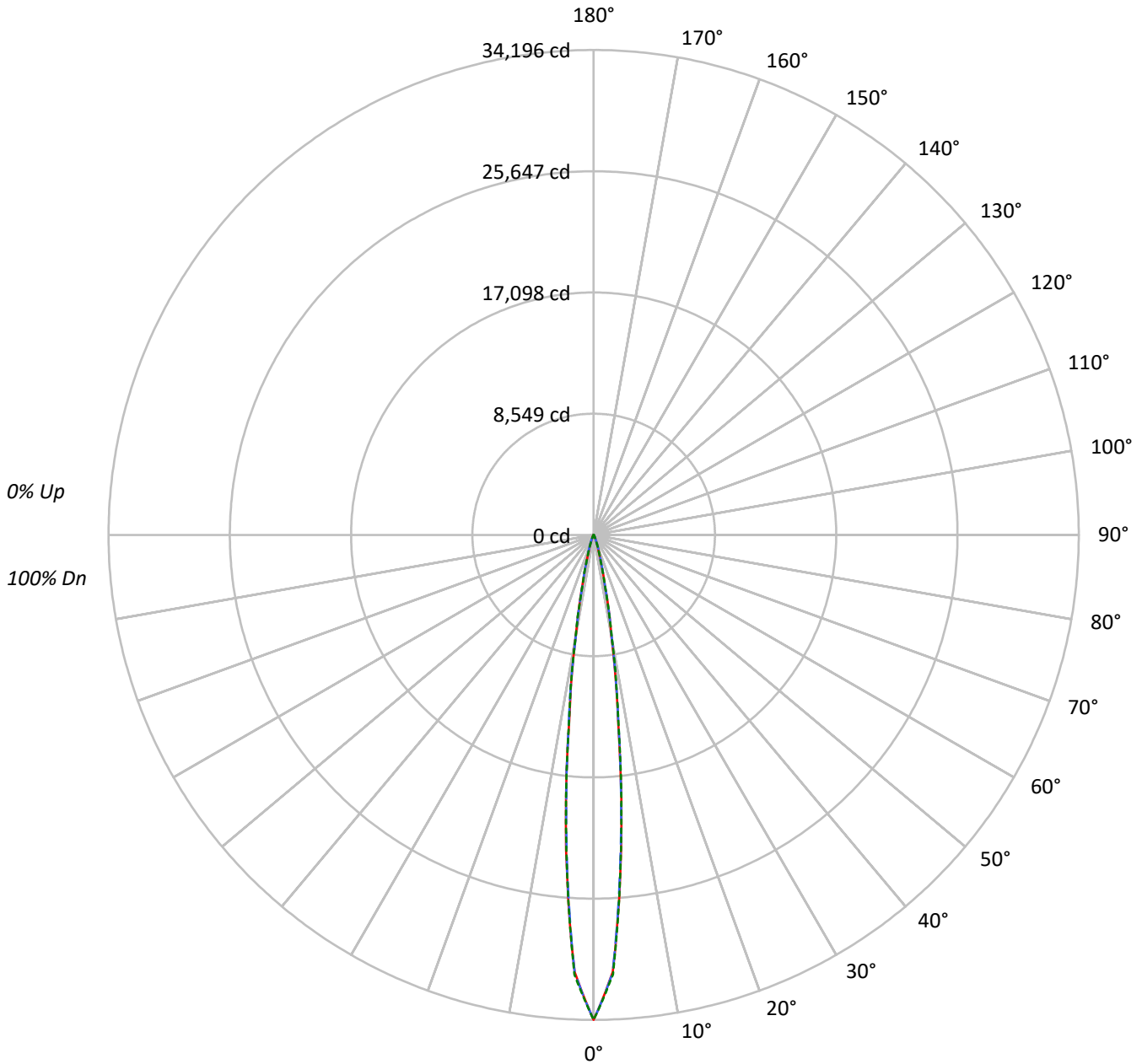


Downlight



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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°	3847788	3847788	3847788
5°	2261141	2231862	2249525
10°	674847	679578	689972
15°	167860	171134	165853
20°	50223	58160	51287
25°	17707	22552	17933
30°	6507	8566	6612
35°	3261	3682	3152
40°	2059	2258	2059
45°	1519	1624	1519
50°	1210	1210	1210
55°	1009	1009	1009
60°	814	814	814
65°	621	621	621
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: 1624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1627.8	64.9
10°-20°	669.6	26.7
20°-30°	133.0	5.3
30°-40°	33.2	1.3
40°-50°	17.5	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°	2430.4	96.8
0°-40°	2463.6	98.2
0°-60°	2494.0	99.4
0°-90°	2509.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34196	34196	34196	34196	34196	
5°	22249	22020	21961	22113	22135	1625
15°	1933	1969	1970	1936	1910	663
25°	227	258	290	256	230	119
35°	45	48	51	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°	34196.5	34196.5	34196.5	34196.5	34196.5
2.5°	30846.7	30872.7	30882.9	30913.3	31026.2
5°	22249.0	22020.3	21960.9	22113.0	22134.7
7.5°	13179.5	13225.8	13395.2	13432.8	13296.7
10°	7232.5	7291.8	7283.2	7335.3	7394.6
12.5°	3698.8	3652.4	3638.0	3697.3	3614.8
15°	1932.6	1968.8	1970.3	1935.5	1909.5
17.5°	1039.4	1081.4	1150.9	1094.4	1007.6
20°	613.8	651.4	710.8	664.5	626.8
22.5°	379.3	409.7	451.7	415.5	385.1
25°	227.3	257.7	289.5	256.2	230.2
27.5°	134.6	160.7	181.0	159.2	133.2
30°	86.9	101.3	114.4	99.9	88.3
32.5°	60.8	66.6	72.4	66.6	60.8
35°	44.9	47.8	50.7	47.8	43.4
37.5°	34.7	37.6	39.1	36.2	33.3
40°	29.0	30.4	31.8	30.4	29.0
42.5°	24.6	26.1	26.1	26.1	24.6
45°	21.7	21.7	23.2	21.7	21.7
47.5°	18.8	18.8	20.3	18.8	18.8
50°	17.4	17.4	17.4	17.4	17.4
52.5°	15.9	15.9	15.9	15.9	15.9
55°	14.5	14.5	14.5	14.5	14.5
57.5°	13.0	13.0	13.0	13.0	13.0
60°	11.6	11.6	11.6	11.6	11.6
62.5°	10.1	10.1	10.1	10.1	10.1
65°	8.7	8.7	8.7	8.7	8.7
67.5°	8.7	8.7	8.7	8.7	8.7
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

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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