

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: P744824

Luminaire Tested: LD4D25D010-EU4DR1515309030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744824
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-EU4DR1515309030-4LBDP1B
Description: 4 INCH ROUND 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: 2249.0 lumens
Efficiency: N/A
Efficacy: 89.6 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



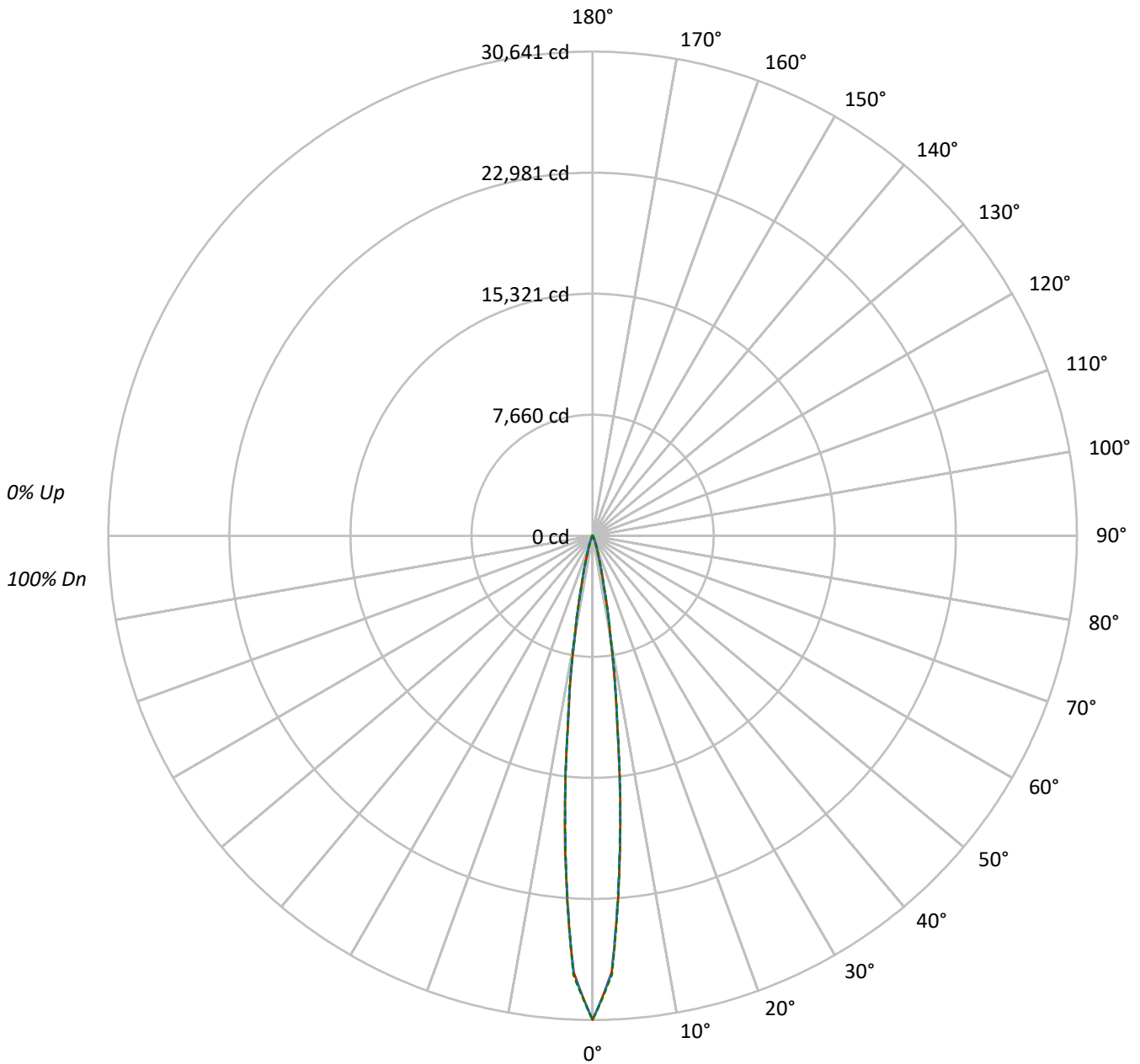
Downlight



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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	87	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°	3447735	3447735	3447735
5°	2026054	1999823	2015637
10°	604680	608916	618237
15°	150410	153337	148603
20°	45003	52113	45960
25°	15868	20207	16063
30°	5826	7675	5923
35°	2919	3297	2825
40°	1839	2024	1839
45°	1365	1456	1365
50°	1085	1085	1085
55°	905	905	905
60°	730	730	730
65°	557	557	557
70°	475	475	475
75°	295	295	393
80°	205	205	205
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1458.6	64.9
10°-20°	600.0	26.7
20°-30°	119.2	5.3
30°-40°	29.7	1.3
40°-50°	15.6	0.7
50°-60°	11.6	0.5
60°-70°	8.2	0.4
70°-80°	4.7	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°	2177.7	96.8
0°-40°	2207.4	98.2
0°-60°	2234.7	99.4
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30641	30641	30641	30641	30641	
5°	19936	19731	19678	19814	19833	1456
15°	1732	1764	1765	1734	1711	594
25°	204	231	259	230	206	107
35°	40	43	45	43	39	27
45°	20	20	21	20	20	15
55°	13	13	13	13	13	12
65°	8	8	8	8	8	8
75°	4	4	4	4	5	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°	30641.1	30641.1	30641.1	30641.1	30641.1
2.5°	27639.5	27662.9	27672.0	27699.2	27800.4
5°	19935.8	19730.9	19677.7	19813.9	19833.3
7.5°	11809.2	11850.7	12002.5	12036.2	11914.3
10°	6480.5	6533.7	6525.9	6572.6	6625.8
12.5°	3314.2	3272.7	3259.7	3312.9	3239.0
15°	1731.7	1764.1	1765.4	1734.3	1710.9
17.5°	931.3	969.0	1031.2	980.6	902.8
20°	550.0	583.7	636.9	595.4	561.7
22.5°	339.9	367.1	404.7	372.3	345.0
25°	203.7	230.9	259.4	229.6	206.2
27.5°	120.6	144.0	162.1	142.7	119.3
30°	77.8	90.8	102.5	89.5	79.1
32.5°	54.5	59.7	64.9	59.7	54.5
35°	40.2	42.8	45.4	42.8	38.9
37.5°	31.1	33.7	35.0	32.4	29.8
40°	25.9	27.2	28.5	27.2	25.9
42.5°	22.1	23.3	23.3	23.3	22.1
45°	19.5	19.5	20.8	19.5	19.5
47.5°	16.9	16.9	18.2	16.9	16.9
50°	15.6	15.6	15.6	15.6	15.6
52.5°	14.3	14.3	14.3	14.3	14.3
55°	13.0	13.0	13.0	13.0	13.0
57.5°	11.7	11.7	11.7	11.7	11.7
60°	10.4	10.4	10.4	10.4	10.4
62.5°	9.1	9.1	9.1	9.1	9.1
65°	7.8	7.8	7.8	7.8	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	6.5	6.5	6.5	6.5	6.5
72.5°	5.2	5.2	5.2	5.2	5.2
75°	3.9	3.9	3.9	3.9	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
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

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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