

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: P744811

Luminaire Tested: LD4D25D010-EU4DR1515309027-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P744811
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-EU4DR1515309027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2178.0 lumens
Efficiency: N/A
Efficacy: 86.8 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



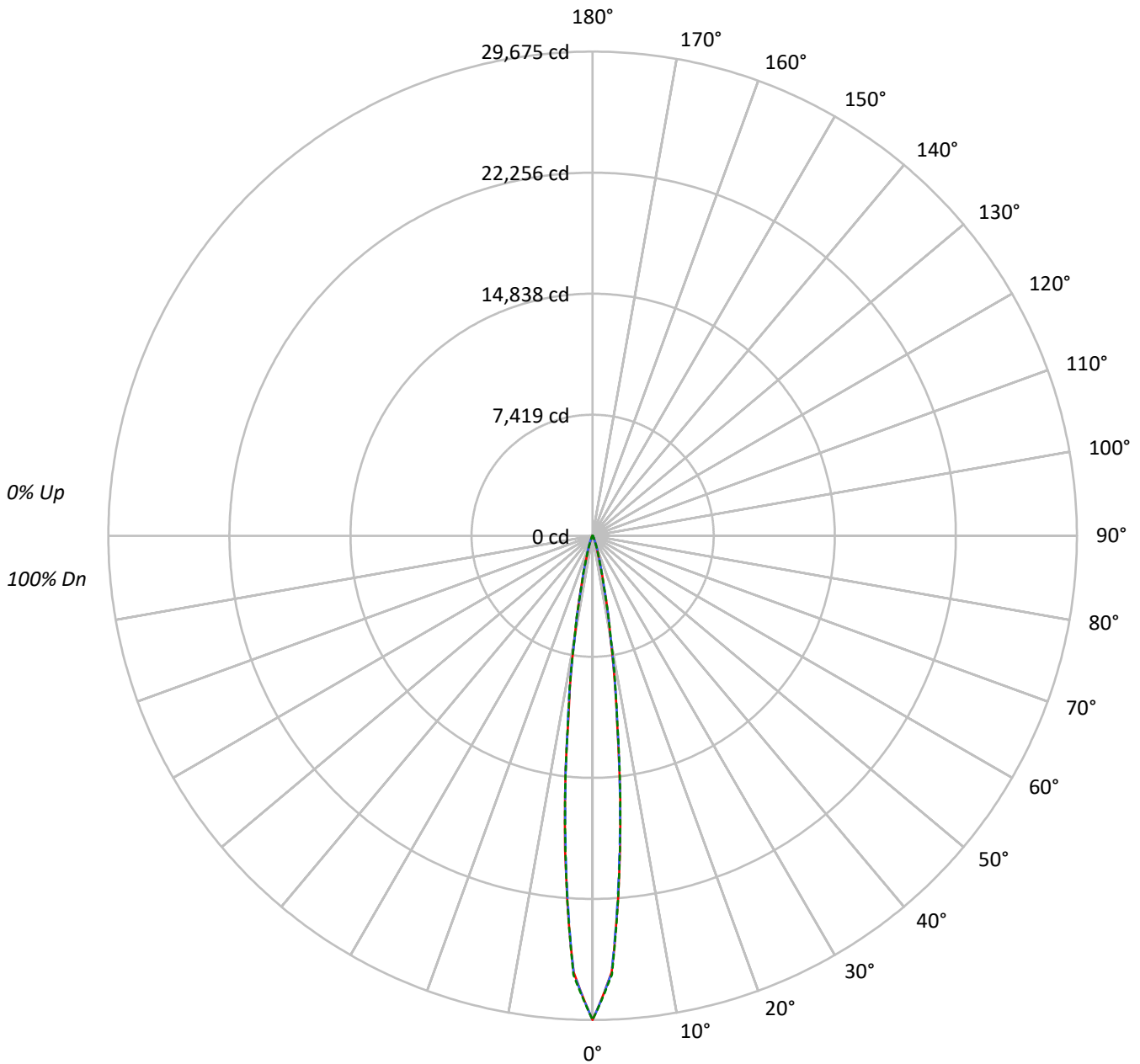
Downlight



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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°	3339029	3339029	3339029
5°	1962170	1936762	1952088
10°	585617	589723	598745
15°	145668	148499	143922
20°	43579	50468	44512
25°	15362	19569	15557
30°	5646	7428	5736
35°	2825	3195	2738
40°	1782	1960	1782
45°	1316	1407	1316
50°	1050	1050	1050
55°	877	877	877
60°	702	702	702
65°	535	535	535
70°	461	461	461
75°	287	287	378
80°	197	197	197
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1407 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.6	64.9
10°-20°	581.0	26.7
20°-30°	115.4	5.3
30°-40°	28.8	1.3
40°-50°	15.1	0.7
50°-60°	11.2	0.5
60°-70°	7.9	0.4
70°-80°	4.5	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°	2109.0	96.8
0°-40°	2137.8	98.2
0°-60°	2164.2	99.4
0°-90°	2178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29675	29675	29675	29675	29675	
5°	19307	19109	19057	19189	19208	1410
15°	1677	1708	1710	1680	1657	575
25°	197	224	251	222	200	104
35°	39	42	44	42	38	26
45°	19	19	20	19	19	15
55°	13	13	13	13	13	11
65°	8	8	8	8	8	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°	29675.0	29675.0	29675.0	29675.0	29675.0
2.5°	26768.0	26790.6	26799.4	26825.8	26923.8
5°	19307.2	19108.7	19057.2	19189.1	19208.0
7.5°	11436.8	11477.0	11624.0	11656.7	11538.6
10°	6276.2	6327.7	6320.2	6365.4	6416.9
12.5°	3209.7	3169.5	3156.9	3208.4	3136.8
15°	1677.1	1708.5	1709.7	1679.6	1657.0
17.5°	902.0	938.4	998.7	949.7	874.3
20°	532.6	565.3	616.8	576.6	544.0
22.5°	329.1	355.5	391.9	360.5	334.2
25°	197.2	223.6	251.2	222.4	199.7
27.5°	116.8	139.4	157.0	138.2	115.6
30°	75.4	87.9	99.2	86.7	76.6
32.5°	52.8	57.8	62.8	57.8	52.8
35°	38.9	41.5	44.0	41.5	37.7
37.5°	30.1	32.7	33.9	31.4	28.9
40°	25.1	26.4	27.6	26.4	25.1
42.5°	21.4	22.6	22.6	22.6	21.4
45°	18.8	18.8	20.1	18.8	18.8
47.5°	16.3	16.3	17.6	16.3	16.3
50°	15.1	15.1	15.1	15.1	15.1
52.5°	13.8	13.8	13.8	13.8	13.8
55°	12.6	12.6	12.6	12.6	12.6
57.5°	11.3	11.3	11.3	11.3	11.3
60°	10.0	10.0	10.0	10.0	10.0
62.5°	8.8	8.8	8.8	8.8	8.8
65°	7.5	7.5	7.5	7.5	7.5
67.5°	7.5	7.5	7.5	7.5	7.5
70°	6.3	6.3	6.3	6.3	6.3
72.5°	5.0	5.0	5.0	5.0	5.0
75°	3.8	3.8	3.8	3.8	5.0
77.5°	3.8	3.8	3.8	3.8	3.8
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
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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