

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: P743907

Luminaire Tested: LD4D20D010-EU4DR1515309035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743907
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: LD4D20D010-EU4DR1515309035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 94.1 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): 23.1
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



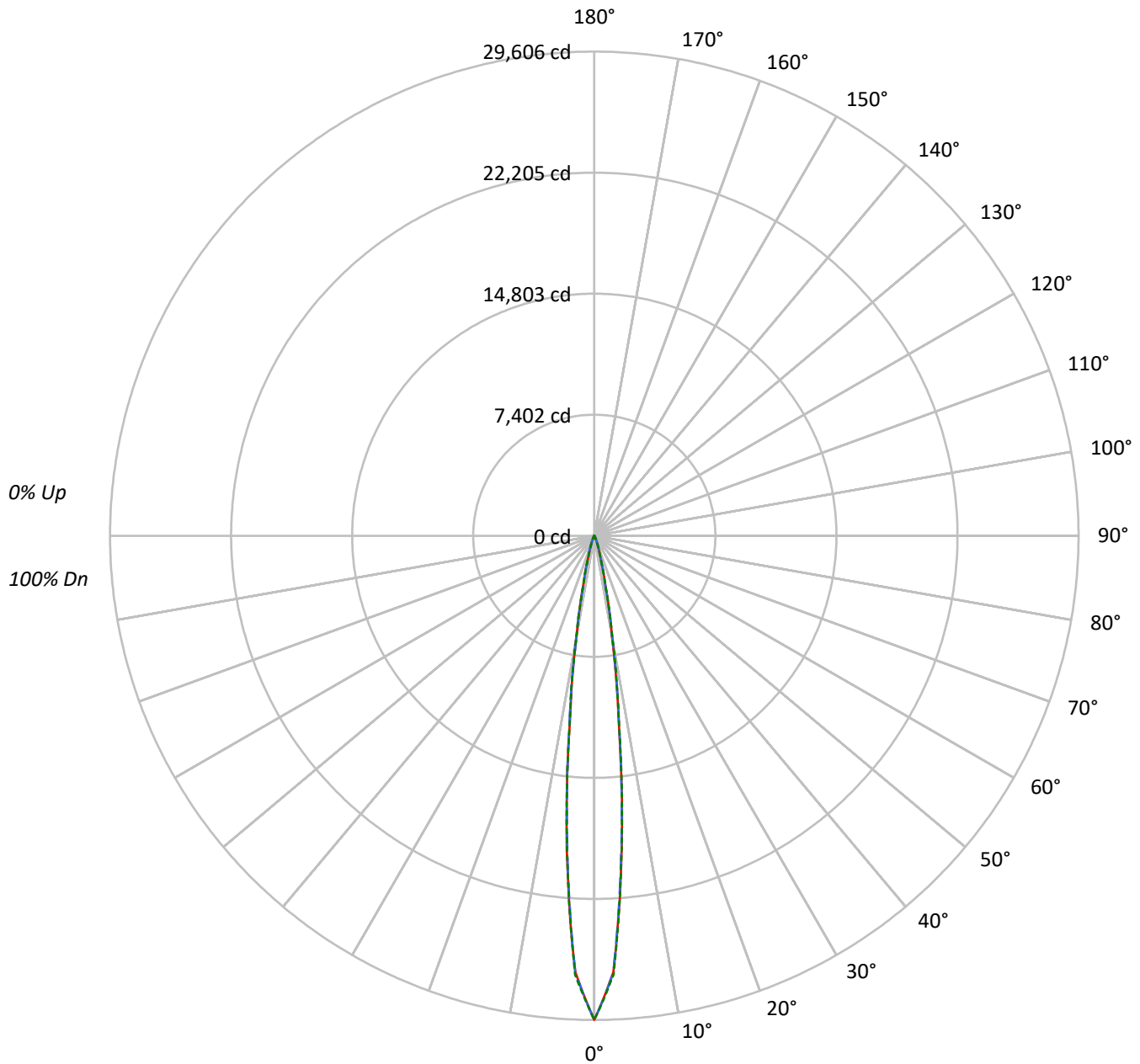
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	116	114	112	111	113	112	110	109	108	107	106		104	103	103		101
2	113	110	107	105	111	108	106	104	105	103	102		102	101	100		100
3	110	106	103	101	108	105	102	100	103	100	99		100	99	97		98
4	108	103	100	98	106	102	99	97	100	98	96		99	97	95		97
5	106	101	98	95	104	100	97	95	98	96	94		97	95	93		96
6	104	99	95	93	102	98	95	93	97	94	92		96	93	92		95
7	102	97	94	91	101	96	93	91	95	93	91		94	92	90		93
8	100	95	92	90	99	95	92	90	94	91	89		93	91	89		92
9	99	93	90	88	98	93	90	88	92	90	88		92	89	88		91
10	97	92	89	87	96	92	89	87	91	89	87		91	88	87		90

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3331243	3331243	3331243
5°	1957596	1932250	1947535
10°	584255	588342	597346
15°	145329	148160	143583
20°	43481	50354	44405
25°	15331	19530	15526
30°	5631	7413	5728
35°	2825	3188	2730
40°	1782	1960	1782
45°	1316	1407	1316
50°	1043	1043	1043
55°	870	870	870
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°	1409.3	64.9
10°-20°	579.7	26.7
20°-30°	115.1	5.3
30°-40°	28.7	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°	2104.1	96.8
0°-40°	2132.9	98.2
0°-60°	2159.2	99.4
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29606	29606	29606	29606	29606	
5°	19262	19064	19013	19144	19163	1407
15°	1673	1704	1706	1676	1653	574
25°	197	223	251	222	199	103
35°	39	41	44	41	38	26
45°	19	19	20	19	19	15
55°	12	12	12	12	12	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°	29605.8	29605.8	29605.8	29605.8	29605.8
2.5°	26705.7	26728.2	26737.0	26763.3	26861.1
5°	19262.2	19064.2	19012.8	19144.4	19163.2
7.5°	11410.2	11450.3	11596.9	11629.5	11511.7
10°	6261.6	6313.0	6305.4	6350.6	6401.9
12.5°	3202.2	3162.1	3149.6	3201.0	3129.5
15°	1673.2	1704.5	1705.8	1675.7	1653.1
17.5°	899.9	936.2	996.4	947.5	872.3
20°	531.4	564.0	615.4	575.3	542.7
22.5°	328.4	354.7	391.0	359.7	333.4
25°	196.8	223.1	250.7	221.8	199.3
27.5°	116.6	139.1	156.7	137.9	115.3
30°	75.2	87.7	99.0	86.5	76.5
32.5°	52.6	57.7	62.7	57.7	52.6
35°	38.9	41.4	43.9	41.4	37.6
37.5°	30.1	32.6	33.8	31.3	28.8
40°	25.1	26.3	27.6	26.3	25.1
42.5°	21.3	22.6	22.6	22.6	21.3
45°	18.8	18.8	20.1	18.8	18.8
47.5°	16.3	16.3	17.5	16.3	16.3
50°	15.0	15.0	15.0	15.0	15.0
52.5°	13.8	13.8	13.8	13.8	13.8
55°	12.5	12.5	12.5	12.5	12.5
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)