

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: P742899

Luminaire Tested: LD4D15D010-EU4DR1515309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742899
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: LD4D15D010-EU4DR1515309027-4LBSQW1B
Description: 4 INCH SQAURE 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: 1135.3 lumens
Efficiency: N/A
Efficacy: 71.9 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): 15.8
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



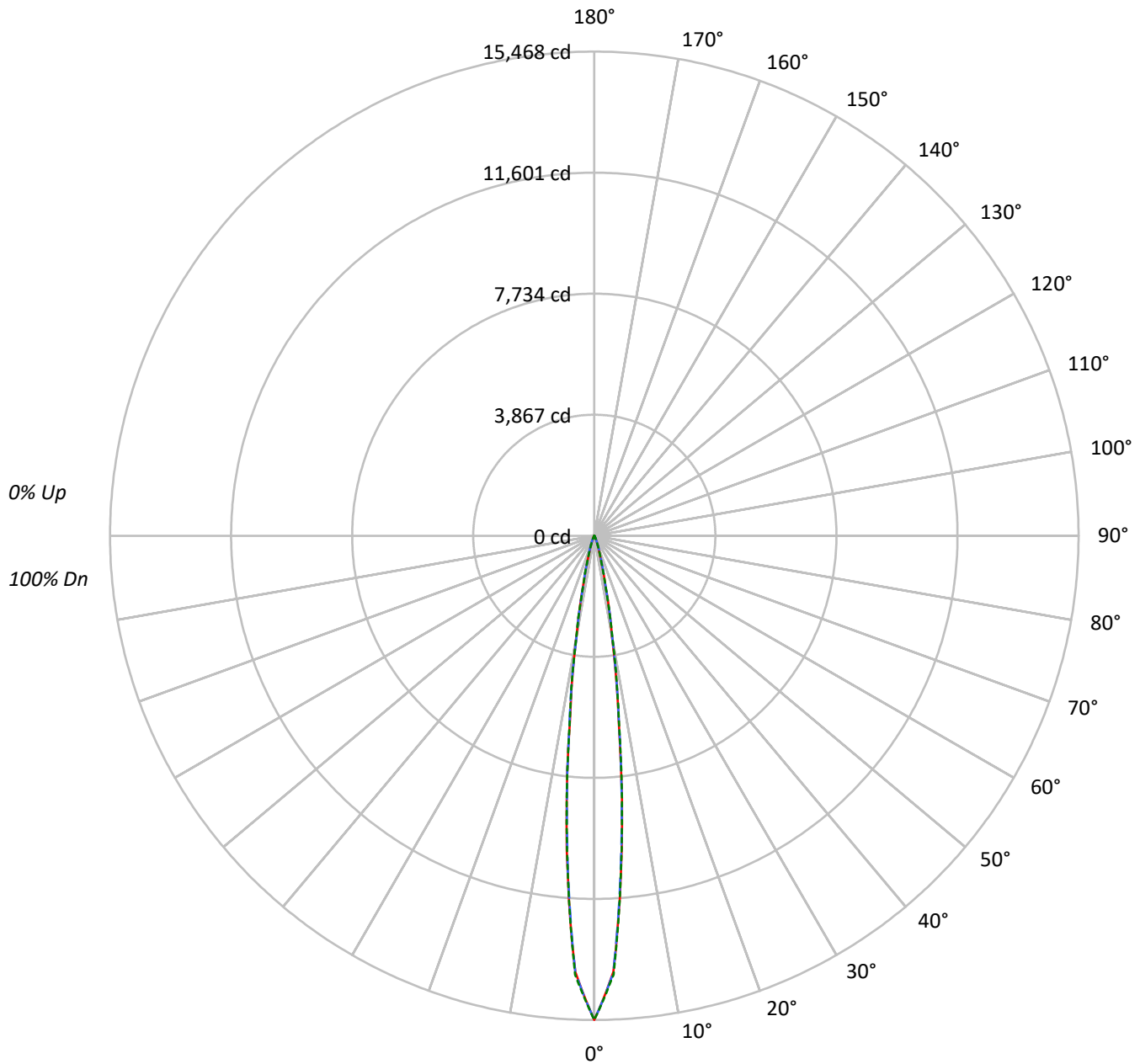
Downlight



TEST NUMBER: P742899

CATALOG NUMBER: LD4D15D010-EU4DR1515309027-4LBSQW1B

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°	1740414	1740414	1740414
5°	1022753	1009510	1017488
10°	305246	307383	312086
15°	75930	77407	75018
20°	22714	26306	23197
25°	8008	10205	8109
30°	2943	3871	2988
35°	1474	1663	1423
40°	930	1023	930
45°	686	735	686
50°	549	549	549
55°	452	452	452
60°	365	365	365
65°	278	278	278
70°	241	241	241
75°	151	151	197
80°	102	102	102
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.3	64.9
10°-20°	302.9	26.7
20°-30°	60.2	5.3
30°-40°	15.0	1.3
40°-50°	7.9	0.7
50°-60°	5.8	0.5
60°-70°	4.1	0.4
70°-80°	2.4	0.2
80°-90°	0.7	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°	1099.3	96.8
0°-40°	1114.3	98.2
0°-60°	1128.1	99.4
0°-90°	1135.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15468	15468	15468	15468	15468	
5°	10064	9960	9933	10002	10012	735
15°	874	890	891	876	864	300
25°	103	117	131	116	104	54
35°	20	22	23	22	20	14
45°	10	10	10	10	10	8
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	2
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°	15467.6	15467.6	15467.6	15467.6	15467.6
2.5°	13952.4	13964.2	13968.8	13982.5	14033.6
5°	10063.6	9960.1	9933.3	10002.0	10011.8
7.5°	5961.3	5982.2	6058.8	6075.9	6014.3
10°	3271.4	3298.2	3294.3	3317.9	3344.7
12.5°	1673.0	1652.1	1645.5	1672.3	1635.0
15°	874.2	890.5	891.2	875.5	863.7
17.5°	470.1	489.1	520.6	495.0	455.7
20°	277.6	294.7	321.5	300.6	283.5
22.5°	171.6	185.3	204.3	187.9	174.2
25°	102.8	116.6	131.0	115.9	104.1
27.5°	60.9	72.7	81.8	72.0	60.2
30°	39.3	45.8	51.7	45.2	39.9
32.5°	27.5	30.1	32.7	30.1	27.5
35°	20.3	21.6	22.9	21.6	19.6
37.5°	15.7	17.0	17.7	16.4	15.1
40°	13.1	13.8	14.4	13.8	13.1
42.5°	11.1	11.8	11.8	11.8	11.1
45°	9.8	9.8	10.5	9.8	9.8
47.5°	8.5	8.5	9.2	8.5	8.5
50°	7.9	7.9	7.9	7.9	7.9
52.5°	7.2	7.2	7.2	7.2	7.2
55°	6.5	6.5	6.5	6.5	6.5
57.5°	5.9	5.9	5.9	5.9	5.9
60°	5.2	5.2	5.2	5.2	5.2
62.5°	4.6	4.6	4.6	4.6	4.6
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7
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)