

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: P742912

Luminaire Tested: LD4D15D010-EU4DR1515309030-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742912
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-EU4DR1515309030-4LBSQW1B
Description: 4 INCH SQAURE 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: 1172.3 lumens
Efficiency: N/A
Efficacy: 74.2 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



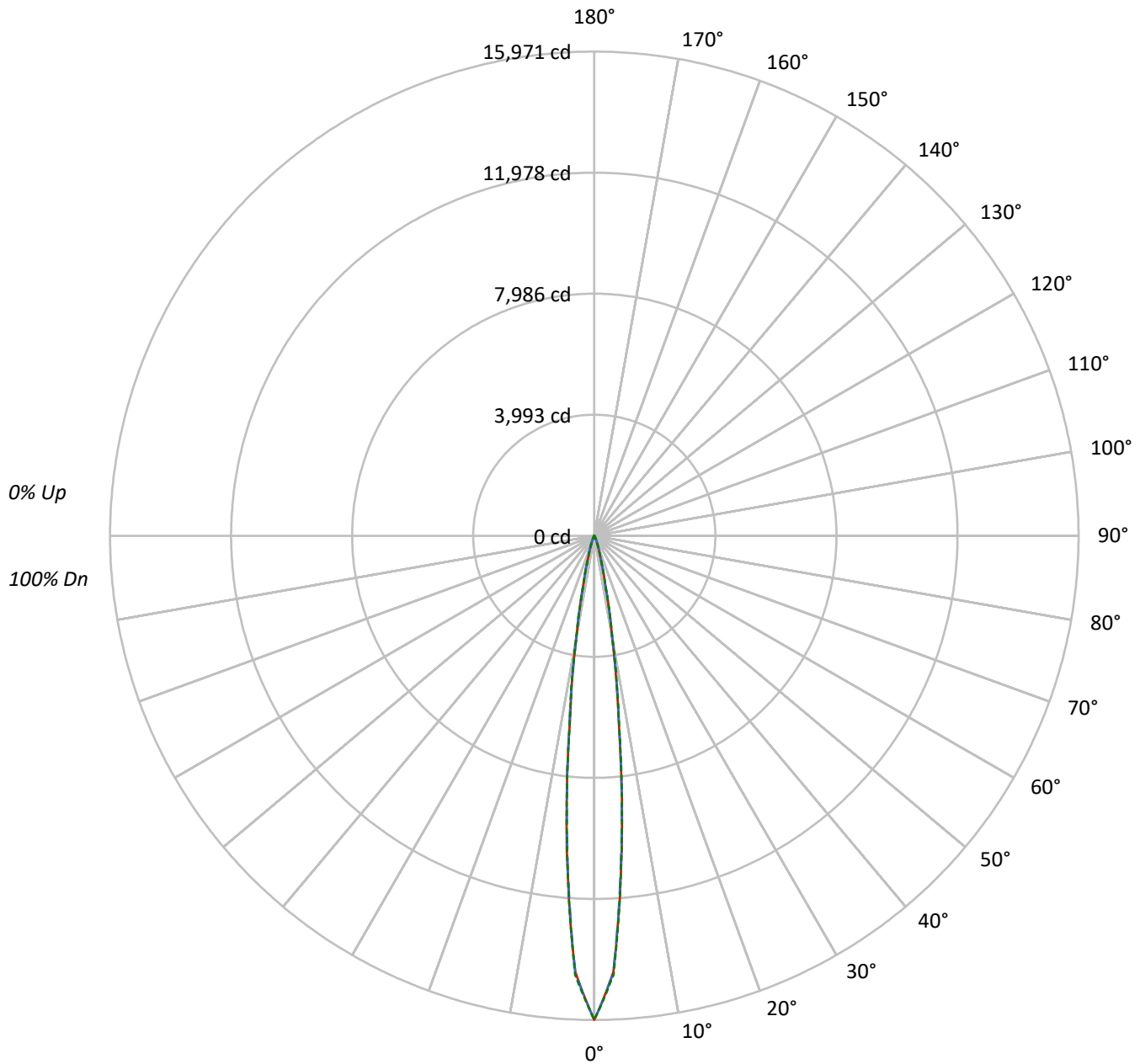
Downlight



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111	113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105	111	108	106	104		105	103	102		102	101	100		100	98	98
3	110	106	103	101	108	105	102	100		103	100	99		100	99	97		98	97	96
4	108	103	100	98	106	102	99	97		100	98	96		99	97	95		97	95	94
5	106	101	98	95	104	100	97	95		98	96	94		97	95	93		96	94	92
6	104	99	95	93	102	98	95	93		97	94	92		96	93	92		95	93	91
7	102	97	94	91	101	96	93	91		95	93	91		94	92	90		93	91	90
8	100	95	92	90	99	95	92	90		94	91	89		93	91	89		92	90	89
9	99	93	90	88	98	93	90	88		92	90	88		92	89	88		91	89	87
10	97	92	89	87	96	92	89	87		91	89	87		91	88	87		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1797079	1797079	1797079
5°	1056046	1042377	1050619
10°	315184	317386	322247
15°	78397	79926	77459
20°	23459	27165	23958
25°	8273	10532	8374
30°	3040	3999	3085
35°	1525	1721	1474
40°	959	1058	959
45°	707	756	707
50°	563	563	563
55°	473	473	473
60°	379	379	379
65°	293	293	293
70°	249	249	249
75°	151	151	204
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 756 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.3	64.9
10°-20°	312.7	26.7
20°-30°	62.1	5.3
30°-40°	15.5	1.3
40°-50°	8.1	0.7
50°-60°	6.0	0.5
60°-70°	4.3	0.4
70°-80°	2.4	0.2
80°-90°	0.8	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°	1135.1	96.8
0°-40°	1150.6	98.2
0°-60°	1164.8	99.4
0°-90°	1172.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1172.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15971	15971	15971	15971	15971	
5°	10391	10284	10257	10328	10338	759
15°	903	920	920	904	892	309
25°	106	120	135	120	108	56
35°	21	22	24	22	20	14
45°	10	10	11	10	10	8
55°	7	7	7	7	7	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°	15971.2	15971.2	15971.2	15971.2	15971.2
2.5°	14406.7	14418.8	14423.6	14437.8	14490.5
5°	10391.2	10284.4	10256.7	10327.7	10337.8
7.5°	6155.4	6177.0	6256.1	6273.7	6210.1
10°	3377.9	3405.6	3401.5	3425.9	3453.6
12.5°	1727.5	1705.8	1699.1	1726.8	1688.3
15°	902.6	919.5	920.2	904.0	891.8
17.5°	485.5	505.1	537.5	511.1	470.6
20°	286.7	304.3	332.0	310.3	292.8
22.5°	177.1	191.3	210.9	194.0	179.8
25°	106.2	120.3	135.2	119.7	107.5
27.5°	62.9	75.0	84.5	74.4	62.2
30°	40.6	47.3	53.4	46.7	41.2
32.5°	28.4	31.1	33.8	31.1	28.4
35°	21.0	22.3	23.7	22.3	20.3
37.5°	16.2	17.6	18.3	16.9	15.6
40°	13.5	14.2	14.9	14.2	13.5
42.5°	11.5	12.2	12.2	12.2	11.5
45°	10.1	10.1	10.8	10.1	10.1
47.5°	8.8	8.8	9.5	8.8	8.8
50°	8.1	8.1	8.1	8.1	8.1
52.5°	7.4	7.4	7.4	7.4	7.4
55°	6.8	6.8	6.8	6.8	6.8
57.5°	6.1	6.1	6.1	6.1	6.1
60°	5.4	5.4	5.4	5.4	5.4
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	3.4	3.4	3.4	3.4	3.4
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
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)