

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: P742936

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742936
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-EU4DR1515309040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.7 lumens
Efficiency: N/A
Efficacy: 80.5 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



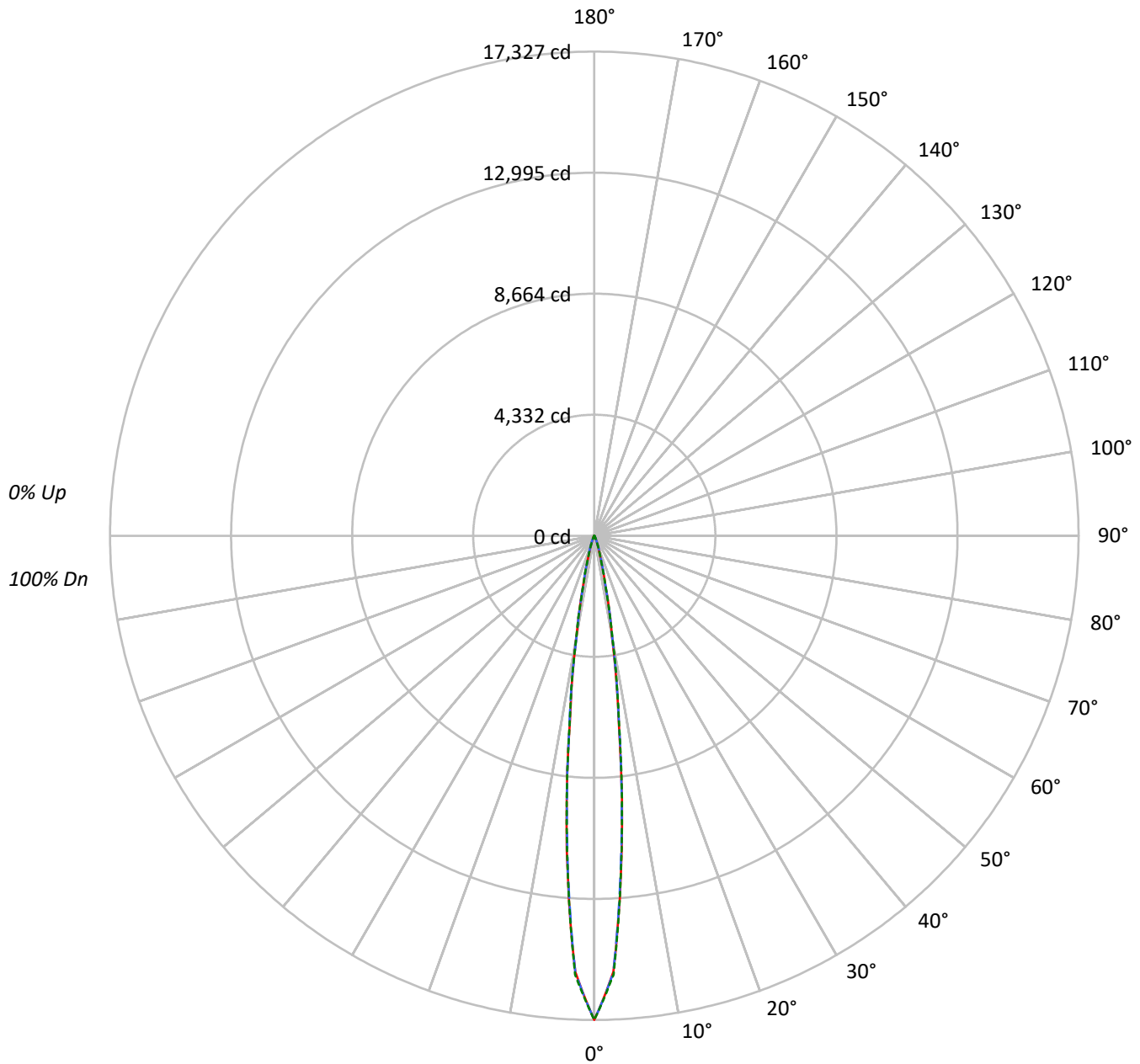
Downlight



TEST NUMBER: P742936

CATALOG NUMBER: LD4D15D010-EU4DR1515309040-4LBSQW1B

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					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	88
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°	1949588	1949588	1949588
5°	1145673	1130835	1139778
10°	341926	344324	349596
15°	85050	86709	84034
20°	25447	29464	25987
25°	8974	11428	9083
30°	3295	4336	3347
35°	1648	1866	1598
40°	1044	1143	1044
45°	770	819	770
50°	612	612	612
55°	508	508	508
60°	414	414	414
65°	314	314	314
70°	271	271	271
75°	166	166	219
80°	118	118	118
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.8	64.9
10°-20°	339.3	26.7
20°-30°	67.4	5.3
30°-40°	16.8	1.3
40°-50°	8.8	0.7
50°-60°	6.6	0.5
60°-70°	4.6	0.4
70°-80°	2.6	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°	1231.4	96.8
0°-40°	1248.2	98.2
0°-60°	1263.6	99.4
0°-90°	1271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17327	17327	17327	17327	17327	
5°	11273	11157	11127	11204	11215	823
15°	979	998	998	981	968	336
25°	115	131	147	130	117	60
35°	23	24	26	24	22	15
45°	11	11	12	11	11	9
55°	7	7	7	7	7	7
65°	4	4	4	4	4	5
75°	2	2	2	2	3	3
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°	17326.6	17326.6	17326.6	17326.6	17326.6
2.5°	15629.3	15642.5	15647.6	15663.0	15720.2
5°	11273.1	11157.2	11127.1	11204.1	11215.1
7.5°	6677.7	6701.2	6787.0	6806.1	6737.1
10°	3664.5	3694.6	3690.2	3716.6	3746.7
12.5°	1874.1	1850.6	1843.3	1873.3	1831.5
15°	979.2	997.6	998.3	980.7	967.5
17.5°	526.6	547.9	583.1	554.5	510.5
20°	311.0	330.1	360.1	336.7	317.6
22.5°	192.2	207.6	228.9	210.5	195.1
25°	115.2	130.6	146.7	129.8	116.6
27.5°	68.2	81.4	91.7	80.7	67.5
30°	44.0	51.3	57.9	50.6	44.7
32.5°	30.8	33.7	36.7	33.7	30.8
35°	22.7	24.2	25.7	24.2	22.0
37.5°	17.6	19.1	19.8	18.3	16.9
40°	14.7	15.4	16.1	15.4	14.7
42.5°	12.5	13.2	13.2	13.2	12.5
45°	11.0	11.0	11.7	11.0	11.0
47.5°	9.5	9.5	10.3	9.5	9.5
50°	8.8	8.8	8.8	8.8	8.8
52.5°	8.1	8.1	8.1	8.1	8.1
55°	7.3	7.3	7.3	7.3	7.3
57.5°	6.6	6.6	6.6	6.6	6.6
60°	5.9	5.9	5.9	5.9	5.9
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	3.7	3.7	3.7	3.7	3.7
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.9
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
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)