

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: P742923

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742923
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-EU4DR1515309035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1237.5 lumens
Efficiency: N/A
Efficacy: 78.3 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



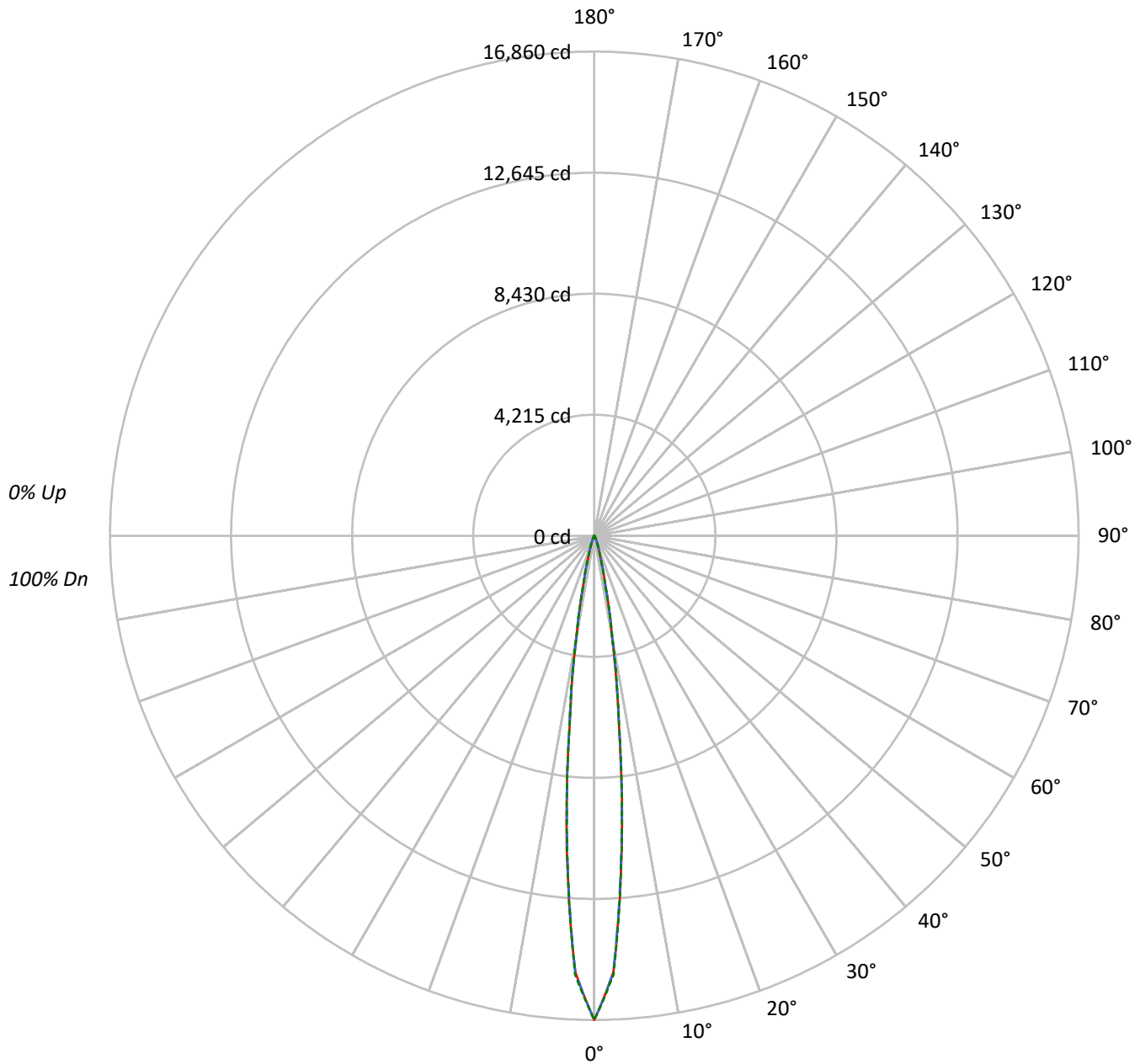
Downlight



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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				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°	1897131	1897131	1897131
5°	1114849	1100407	1109117
10°	332726	335058	340190
15°	82766	84373	81767
20°	24760	28679	25291
25°	8733	11124	8842
30°	3205	4223	3257
35°	1605	1815	1554
40°	1016	1115	1016
45°	749	798	749
50°	598	598	598
55°	494	494	494
60°	400	400	400
65°	307	307	307
70°	263	263	263
75°	159	159	219
80°	110	110	110
85°	58	58	58

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.6	64.9
10°-20°	330.1	26.7
20°-30°	65.6	5.3
30°-40°	16.4	1.3
40°-50°	8.6	0.7
50°-60°	6.4	0.5
60°-70°	4.5	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°	1198.3	96.8
0°-40°	1214.7	98.2
0°-60°	1229.6	99.4
0°-90°	1237.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16860	16860	16860	16860	16860	
5°	10970	10857	10828	10903	10913	801
15°	953	971	971	954	941	327
25°	112	127	143	126	114	59
35°	22	24	25	24	21	15
45°	11	11	11	11	11	8
55°	7	7	7	7	7	6
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°	16860.4	16860.4	16860.4	16860.4	16860.4
2.5°	15208.8	15221.6	15226.6	15241.6	15297.3
5°	10969.8	10857.0	10827.7	10902.7	10913.4
7.5°	6498.1	6520.9	6604.4	6623.0	6555.9
10°	3565.9	3595.2	3590.9	3616.6	3645.9
12.5°	1823.7	1800.8	1793.7	1822.9	1782.3
15°	952.9	970.7	971.4	954.3	941.4
17.5°	512.5	533.2	567.4	539.6	496.8
20°	302.6	321.2	350.5	327.6	309.1
22.5°	187.0	202.0	222.7	204.8	189.9
25°	112.1	127.0	142.8	126.3	113.5
27.5°	66.4	79.2	89.2	78.5	65.7
30°	42.8	50.0	56.4	49.2	43.5
32.5°	30.0	32.8	35.7	32.8	30.0
35°	22.1	23.6	25.0	23.6	21.4
37.5°	17.1	18.6	19.3	17.8	16.4
40°	14.3	15.0	15.7	15.0	14.3
42.5°	12.1	12.8	12.8	12.8	12.1
45°	10.7	10.7	11.4	10.7	10.7
47.5°	9.3	9.3	10.0	9.3	9.3
50°	8.6	8.6	8.6	8.6	8.6
52.5°	7.9	7.9	7.9	7.9	7.9
55°	7.1	7.1	7.1	7.1	7.1
57.5°	6.4	6.4	6.4	6.4	6.4
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.3	4.3	4.3	4.3	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.1	2.1	2.1	2.1	2.9
77.5°	2.1	2.1	2.1	2.1	2.1
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)