

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: P742886

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742886
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-EU4DR1515309024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1022.7 lumens
Efficiency: N/A
Efficacy: 64.7 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



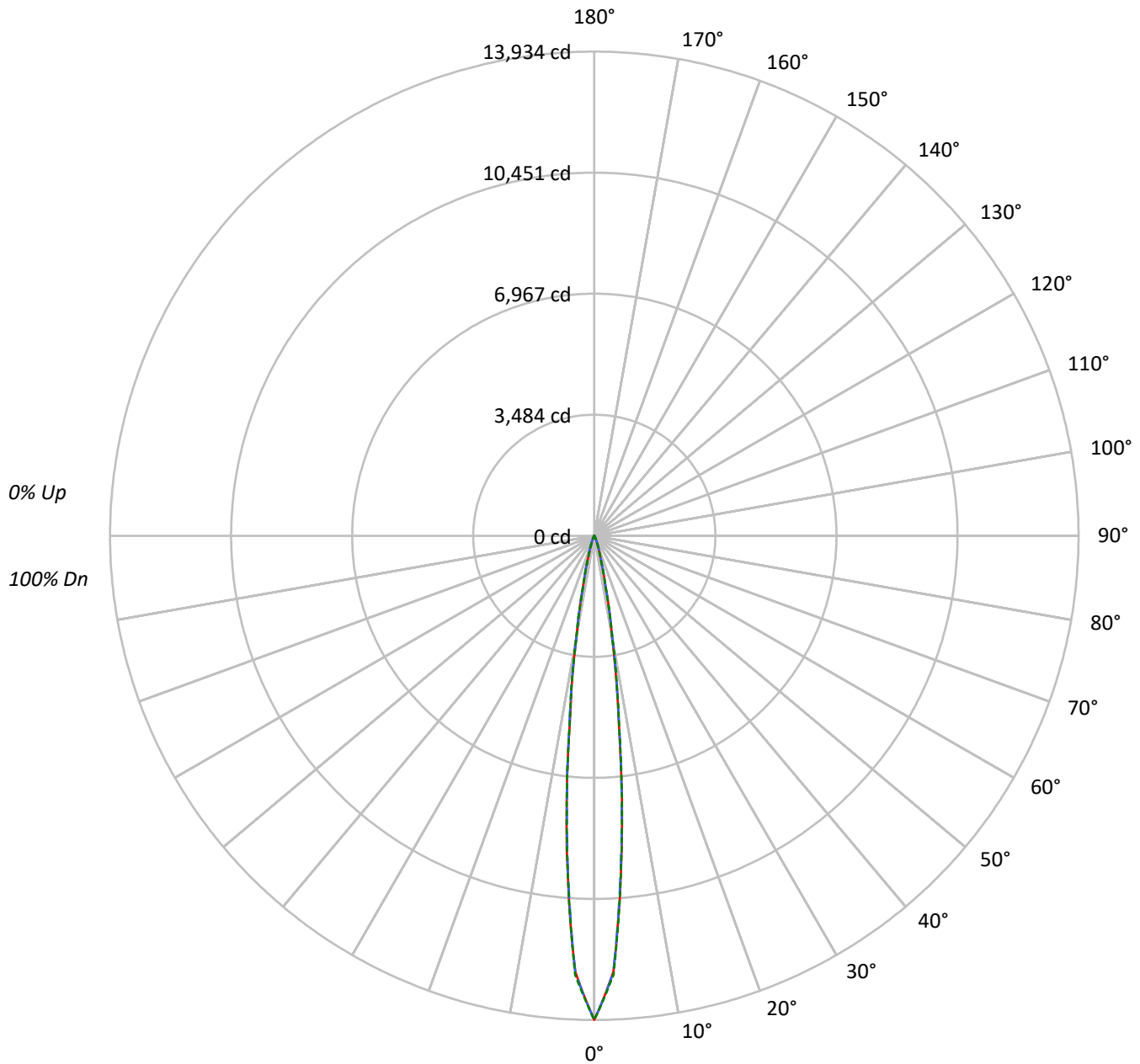
Downlight



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CATALOG NUMBER: LD4D15D010-EU4DR1515309024-4LBSQW1B

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°	1567830	1567830	1567830
5°	921327	909406	916591
10°	274977	276900	281136
15°	68400	69729	67575
20°	20464	23696	20898
25°	7214	9192	7307
30°	2651	3489	2696
35°	1329	1496	1285
40°	838	923	838
45°	616	658	616
50°	494	494	494
55°	411	411	411
60°	330	330	330
65°	250	250	250
70°	212	212	212
75°	136	136	181
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.3	64.9
10°-20°	272.8	26.7
20°-30°	54.2	5.3
30°-40°	13.5	1.3
40°-50°	7.1	0.7
50°-60°	5.3	0.5
60°-70°	3.7	0.4
70°-80°	2.1	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°	990.3	96.8
0°-40°	1003.8	98.2
0°-60°	1016.2	99.4
0°-90°	1022.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1022.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13934	13934	13934	13934	13934	
5°	9066	8972	8948	9010	9019	662
15°	788	802	803	789	778	270
25°	93	105	118	104	94	49
35°	18	20	21	20	18	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	13933.8	13933.8	13933.8	13933.8	13933.8
2.5°	12568.8	12579.5	12583.6	12596.0	12642.0
5°	9065.6	8972.4	8948.3	9010.2	9019.0
7.5°	5370.1	5389.0	5458.0	5473.4	5417.9
10°	2947.0	2971.1	2967.6	2988.8	3013.0
12.5°	1507.1	1488.2	1482.3	1506.5	1472.9
15°	787.5	802.2	802.8	788.6	778.0
17.5°	423.5	440.6	468.9	445.9	410.5
20°	250.1	265.4	289.6	270.7	255.4
22.5°	154.5	166.9	184.0	169.3	156.9
25°	92.6	105.0	118.0	104.4	93.8
27.5°	54.9	65.5	73.7	64.9	54.3
30°	35.4	41.3	46.6	40.7	36.0
32.5°	24.8	27.1	29.5	27.1	24.8
35°	18.3	19.5	20.6	19.5	17.7
37.5°	14.2	15.3	15.9	14.7	13.6
40°	11.8	12.4	13.0	12.4	11.8
42.5°	10.0	10.6	10.6	10.6	10.0
45°	8.8	8.8	9.4	8.8	8.8
47.5°	7.7	7.7	8.3	7.7	7.7
50°	7.1	7.1	7.1	7.1	7.1
52.5°	6.5	6.5	6.5	6.5	6.5
55°	5.9	5.9	5.9	5.9	5.9
57.5°	5.3	5.3	5.3	5.3	5.3
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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)