

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: P742887

Luminaire Tested: LD4D15D010-EU4DR1515309024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742887
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-EU4DR1515309024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1074.7 lumens
Efficiency: N/A
Efficacy: 68.0 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

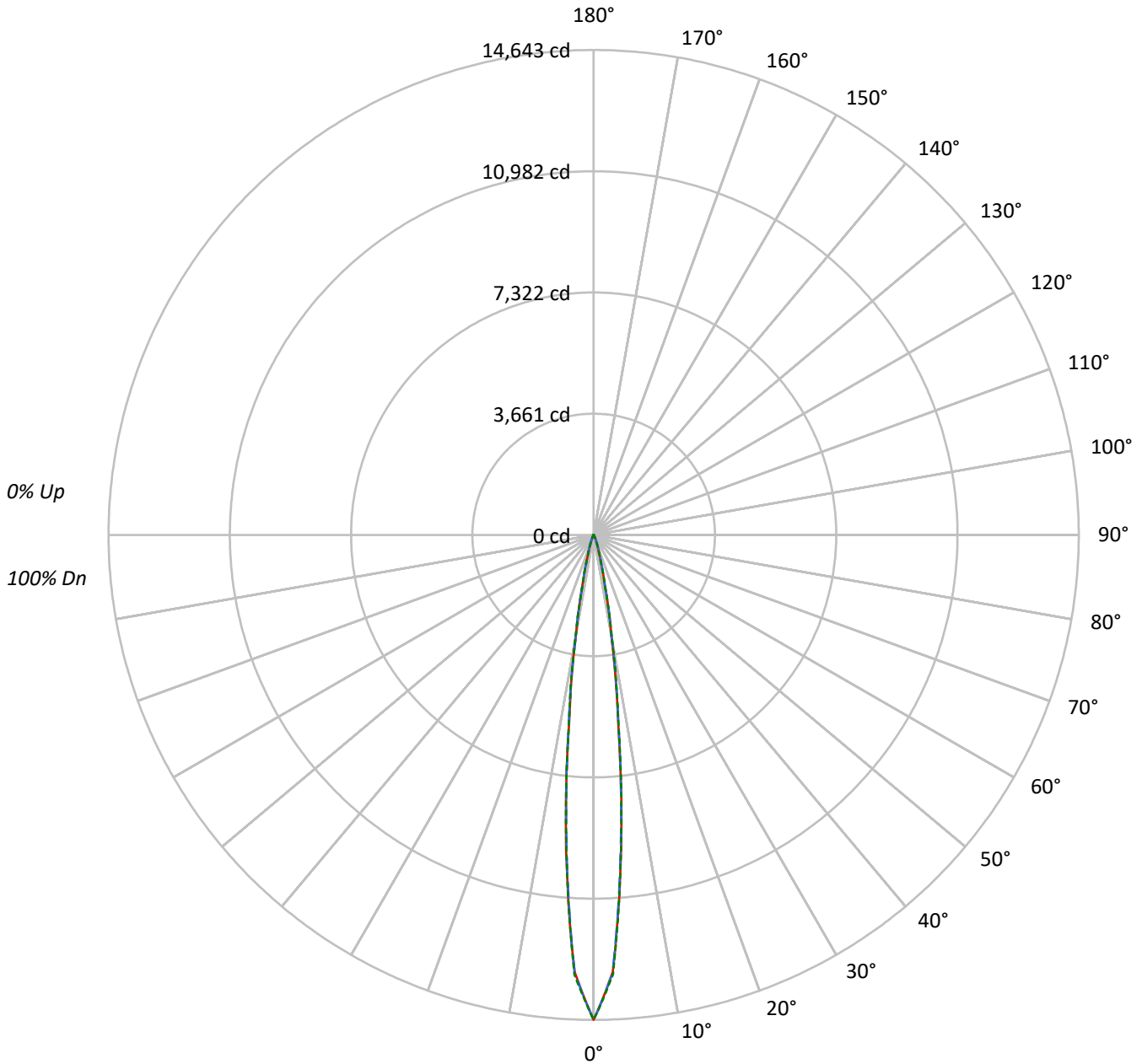


Downlight



TEST NUMBER: P742887
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1647641	1647641	1647641
5°	968239	955698	963259
10°	288974	290998	295449
15°	71883	73281	71014
20°	21503	24907	21961
25°	7580	9660	7681
30°	2786	3669	2831
35°	1394	1576	1351
40°	881	966	881
45°	651	693	651
50°	515	515	515
55°	432	432	432
60°	351	351	351
65°	264	264	264
70°	227	227	227
75°	144	144	189
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 693 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.0	64.9
10°-20°	286.7	26.7
20°-30°	56.9	5.3
30°-40°	14.2	1.3
40°-50°	7.5	0.7
50°-60°	5.5	0.5
60°-70°	3.9	0.4
70°-80°	2.2	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°	1040.7	96.8
0°-40°	1054.9	98.2
0°-60°	1067.9	99.4
0°-90°	1074.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1074.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14643	14643	14643	14643	14643	
5°	9527	9429	9404	9469	9478	696
15°	828	843	844	829	818	284
25°	97	110	124	110	99	51
35°	19	20	22	20	19	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	6
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°	14643.1	14643.1	14643.1	14643.1	14643.1
2.5°	13208.7	13219.9	13224.2	13237.2	13285.6
5°	9527.2	9429.2	9403.8	9468.9	9478.2
7.5°	5643.5	5663.4	5735.9	5752.0	5693.7
10°	3097.0	3122.4	3118.7	3141.0	3166.4
12.5°	1583.8	1564.0	1557.8	1583.2	1547.9
15°	827.6	843.1	843.7	828.8	817.6
17.5°	445.1	463.1	492.8	468.6	431.4
20°	262.8	279.0	304.4	284.5	268.4
22.5°	162.4	175.4	193.4	177.9	164.9
25°	97.3	110.3	124.0	109.7	98.6
27.5°	57.7	68.8	77.5	68.2	57.0
30°	37.2	43.4	49.0	42.8	37.8
32.5°	26.0	28.5	31.0	28.5	26.0
35°	19.2	20.5	21.7	20.5	18.6
37.5°	14.9	16.1	16.7	15.5	14.3
40°	12.4	13.0	13.6	13.0	12.4
42.5°	10.5	11.2	11.2	11.2	10.5
45°	9.3	9.3	9.9	9.3	9.3
47.5°	8.1	8.1	8.7	8.1	8.1
50°	7.4	7.4	7.4	7.4	7.4
52.5°	6.8	6.8	6.8	6.8	6.8
55°	6.2	6.2	6.2	6.2	6.2
57.5°	5.6	5.6	5.6	5.6	5.6
60°	5.0	5.0	5.0	5.0	5.0
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.9	1.9	1.9	1.9	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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