

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: P742925

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742925
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-EU4DR1515309040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.2 lumens
Efficiency: N/A
Efficacy: 85.3 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

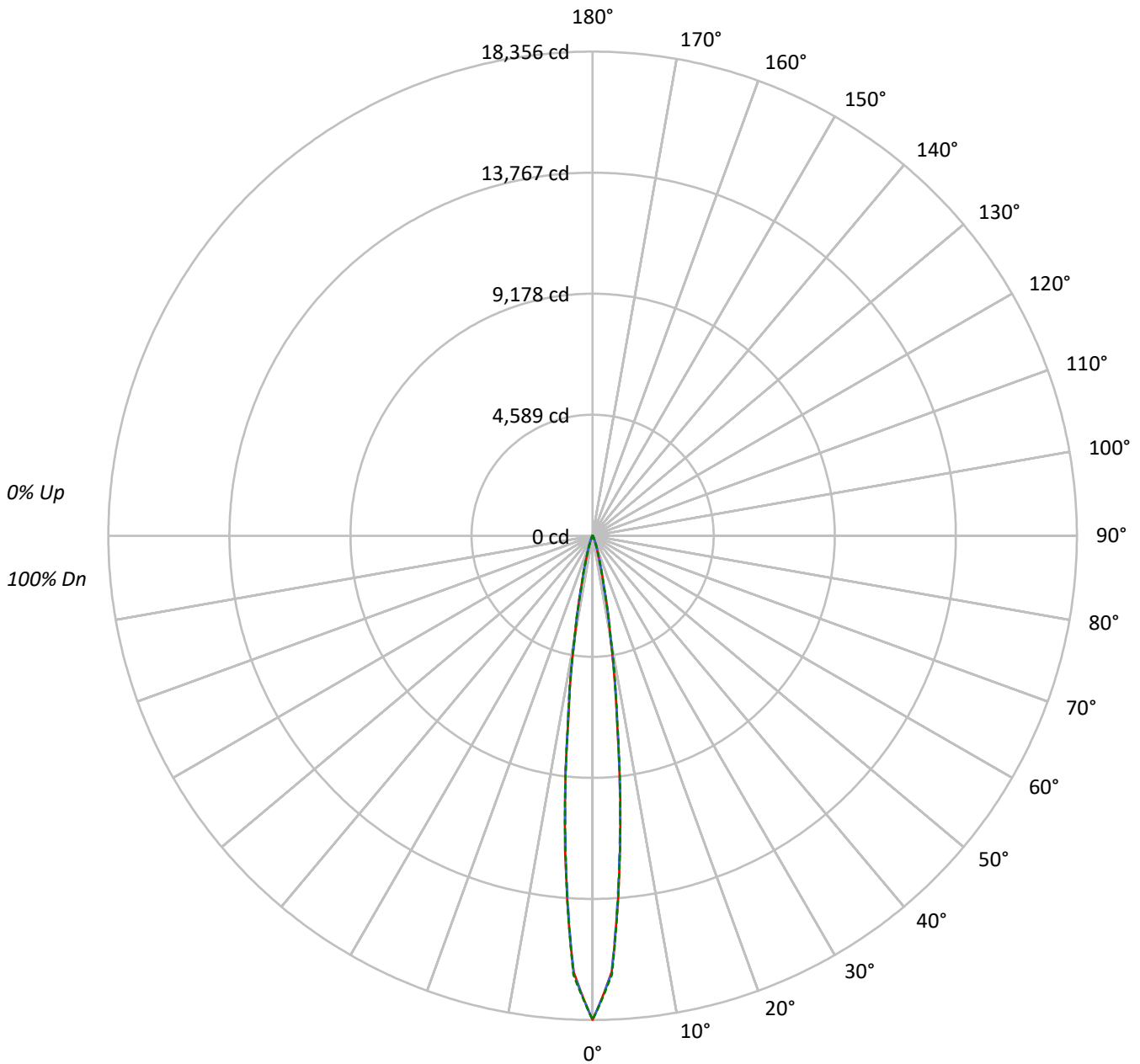


Downlight



TEST NUMBER: P742925
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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2065382	2065382	2065382
5°	1213713	1198002	1207473
10°	362239	364777	370356
15°	90105	91860	89020
20°	26961	31215	27533
25°	9504	12106	9629
30°	3489	4598	3549
35°	1750	1975	1692
40°	1101	1214	1101
45°	819	868	819
50°	647	647	647
55°	543	543	543
60°	435	435	435
65°	335	335	335
70°	285	285	285
75°	174	174	234
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.8	64.9
10°-20°	359.4	26.7
20°-30°	71.4	5.3
30°-40°	17.8	1.3
40°-50°	9.4	0.7
50°-60°	6.9	0.5
60°-70°	4.9	0.4
70°-80°	2.8	0.2
80°-90°	0.9	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°	1304.6	96.8
0°-40°	1322.4	98.2
0°-60°	1338.7	99.4
0°-90°	1347.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18356	18356	18356	18356	18356	
5°	11943	11820	11788	11870	11881	872
15°	1037	1057	1058	1039	1025	356
25°	122	138	155	138	124	64
35°	24	26	27	26	23	16
45°	12	12	12	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	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°	18355.7	18355.7	18355.7	18355.7	18355.7
2.5°	16557.6	16571.6	16577.0	16593.3	16653.9
5°	11942.6	11819.8	11788.0	11869.6	11881.2
7.5°	7074.3	7099.2	7190.1	7210.3	7137.3
10°	3882.2	3914.0	3909.4	3937.4	3969.2
12.5°	1985.4	1960.5	1952.7	1984.6	1940.3
15°	1037.4	1056.8	1057.6	1038.9	1024.9
17.5°	557.9	580.5	617.8	587.5	540.8
20°	329.5	349.7	381.5	356.7	336.5
22.5°	203.6	219.9	242.4	223.0	206.7
25°	122.0	138.3	155.4	137.5	123.6
27.5°	72.3	86.3	97.1	85.5	71.5
30°	46.6	54.4	61.4	53.6	47.4
32.5°	32.6	35.7	38.9	35.7	32.6
35°	24.1	25.6	27.2	25.6	23.3
37.5°	18.6	20.2	21.0	19.4	17.9
40°	15.5	16.3	17.1	16.3	15.5
42.5°	13.2	14.0	14.0	14.0	13.2
45°	11.7	11.7	12.4	11.7	11.7
47.5°	10.1	10.1	10.9	10.1	10.1
50°	9.3	9.3	9.3	9.3	9.3
52.5°	8.5	8.5	8.5	8.5	8.5
55°	7.8	7.8	7.8	7.8	7.8
57.5°	7.0	7.0	7.0	7.0	7.0
60°	6.2	6.2	6.2	6.2	6.2
62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.1	3.1	3.1	3.1	3.1
75°	2.3	2.3	2.3	2.3	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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