

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: P742938

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742938
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-EU4DR1515309050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1331.3 lumens
Efficiency: N/A
Efficacy: 84.3 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

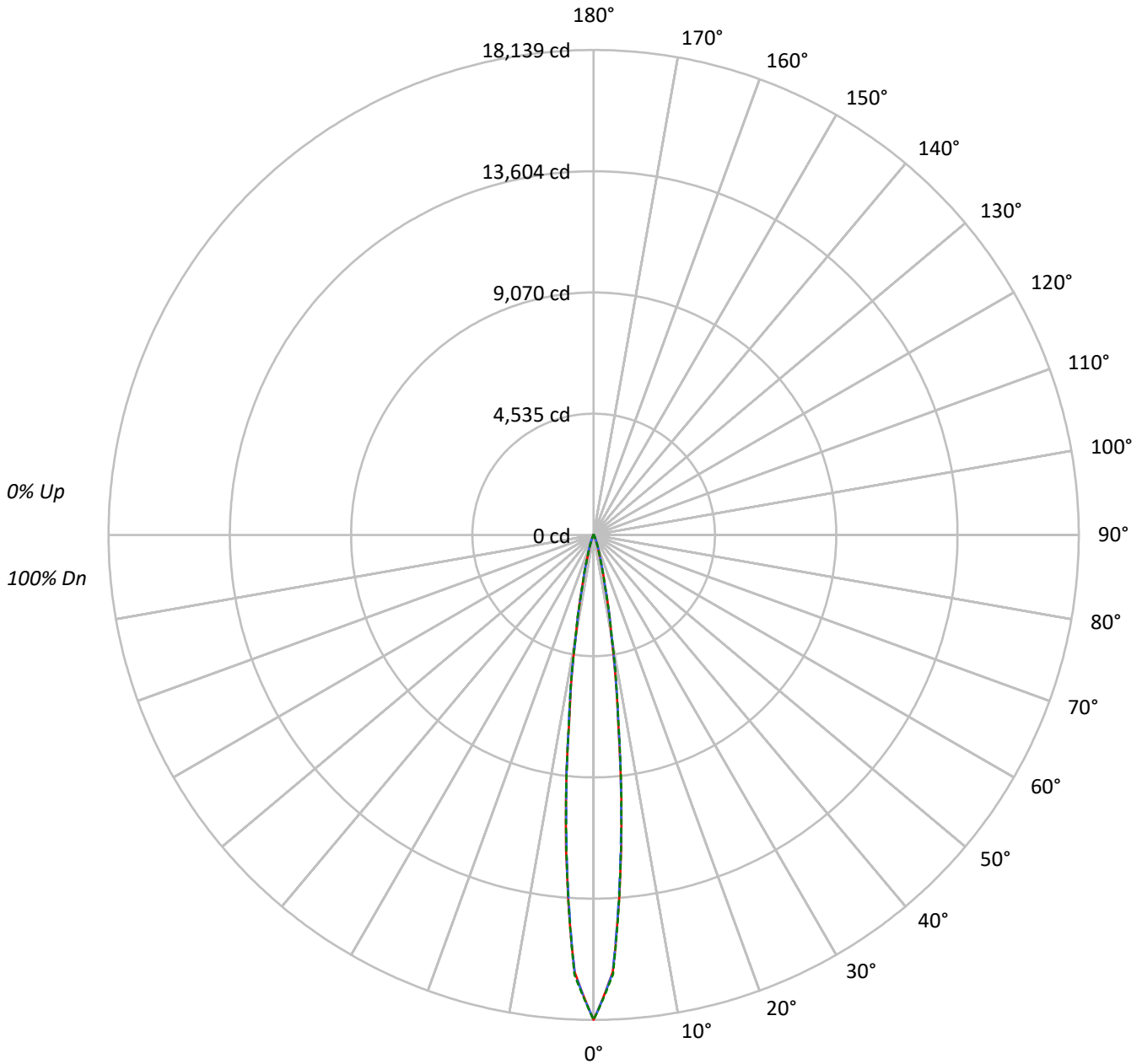


Downlight



TEST NUMBER: P742938
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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°	2041022	2041022	2041022
5°	1199404	1183875	1193235
10°	357965	360475	365990
15°	89037	90774	87977
20°	26642	30847	27206
25°	9395	11966	9512
30°	3452	4545	3504
35°	1728	1953	1670
40°	1094	1200	1094
45°	805	861	805
50°	640	640	640
55°	536	536	536
60°	428	428	428
65°	328	328	328
70°	278	278	278
75°	174	174	234
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.5	64.9
10°-20°	355.2	26.7
20°-30°	70.5	5.3
30°-40°	17.6	1.3
40°-50°	9.3	0.7
50°-60°	6.8	0.5
60°-70°	4.8	0.4
70°-80°	2.8	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°	1289.2	96.8
0°-40°	1306.8	98.2
0°-60°	1322.9	99.4
0°-90°	1331.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1331.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18139	18139	18139	18139	18139	
5°	11802	11680	11649	11730	11741	862
15°	1025	1044	1045	1027	1013	351
25°	121	137	154	136	122	63
35°	24	25	27	25	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°	18139.2	18139.2	18139.2	18139.2	18139.2
2.5°	16362.3	16376.1	16381.5	16397.6	16457.5
5°	11801.8	11680.5	11649.0	11729.6	11741.1
7.5°	6990.9	7015.5	7105.3	7125.3	7053.1
10°	3836.4	3867.9	3863.3	3890.9	3922.4
12.5°	1962.0	1937.4	1929.7	1961.2	1917.4
15°	1025.1	1044.3	1045.1	1026.7	1012.9
17.5°	551.3	573.6	610.5	580.5	534.5
20°	325.6	345.6	377.0	352.5	332.5
22.5°	201.2	217.3	239.6	220.4	204.3
25°	120.6	136.7	153.6	135.9	122.1
27.5°	71.4	85.2	96.0	84.5	70.6
30°	46.1	53.8	60.7	53.0	46.8
32.5°	32.3	35.3	38.4	35.3	32.3
35°	23.8	25.3	26.9	25.3	23.0
37.5°	18.4	20.0	20.7	19.2	17.7
40°	15.4	16.1	16.9	16.1	15.4
42.5°	13.1	13.8	13.8	13.8	13.1
45°	11.5	11.5	12.3	11.5	11.5
47.5°	10.0	10.0	10.8	10.0	10.0
50°	9.2	9.2	9.2	9.2	9.2
52.5°	8.4	8.4	8.4	8.4	8.4
55°	7.7	7.7	7.7	7.7	7.7
57.5°	6.9	6.9	6.9	6.9	6.9
60°	6.1	6.1	6.1	6.1	6.1
62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.8	3.8	3.8	3.8	3.8
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°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
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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