

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: P742916

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742916
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-EU4DR1515309035-4LBDP1B
Description: 4 INCH ROUND 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: 1338.0 lumens
Efficiency: N/A
Efficacy: 84.7 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 (A_{in}): 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

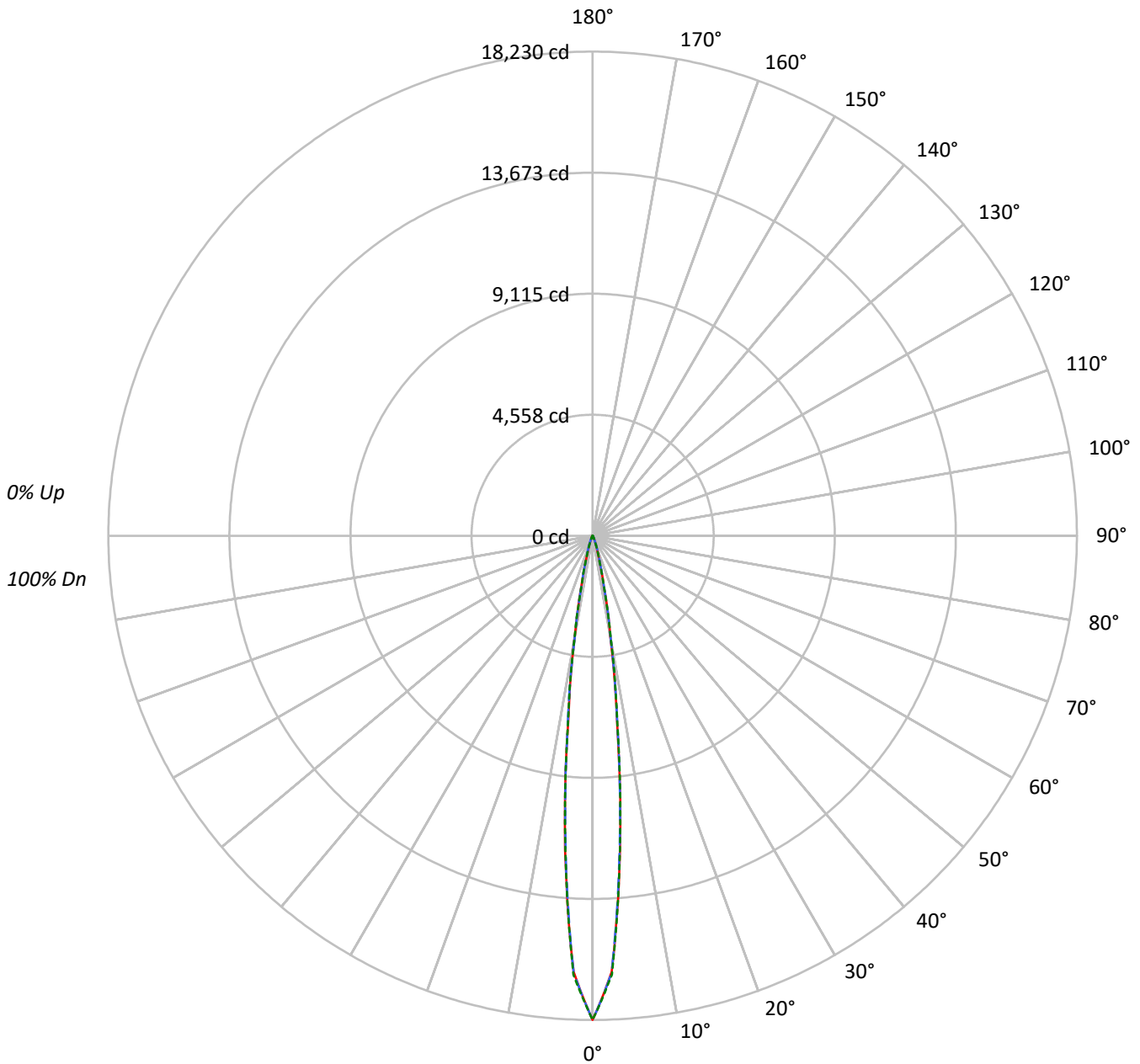


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	2051205	2051205	2051205
5°	1205380	1189780	1199191
10°	359747	362267	367819
15°	89489	91226	88412
20°	26772	31003	27345
25°	9442	12020	9558
30°	3467	4568	3527
35°	1736	1961	1685
40°	1094	1207	1094
45°	812	861	812
50°	647	647	647
55°	536	536	536
60°	435	435	435
65°	328	328	328
70°	285	285	285
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°	867.8	64.9
10°-20°	356.9	26.7
20°-30°	70.9	5.3
30°-40°	17.7	1.3
40°-50°	9.3	0.7
50°-60°	6.9	0.5
60°-70°	4.9	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°	1295.6	96.8
0°-40°	1313.3	98.2
0°-60°	1329.5	99.4
0°-90°	1338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18230	18230	18230	18230	18230	
5°	11861	11739	11707	11788	11800	866
15°	1030	1050	1050	1032	1018	353
25°	121	137	154	137	123	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°	18229.7	18229.7	18229.7	18229.7	18229.7
2.5°	16443.9	16457.8	16463.2	16479.4	16539.6
5°	11860.6	11738.7	11707.1	11788.1	11799.7
7.5°	7025.8	7050.5	7140.8	7160.8	7088.3
10°	3855.5	3887.2	3882.5	3910.3	3942.0
12.5°	1971.8	1947.1	1939.3	1971.0	1927.0
15°	1030.3	1049.5	1050.3	1031.8	1017.9
17.5°	554.1	576.5	613.5	583.4	537.1
20°	327.2	347.3	378.9	354.2	334.2
22.5°	202.2	218.4	240.8	221.5	205.3
25°	121.2	137.4	154.3	136.6	122.7
27.5°	71.8	85.7	96.5	84.9	71.0
30°	46.3	54.0	61.0	53.2	47.1
32.5°	32.4	35.5	38.6	35.5	32.4
35°	23.9	25.5	27.0	25.5	23.2
37.5°	18.5	20.1	20.8	19.3	17.7
40°	15.4	16.2	17.0	16.2	15.4
42.5°	13.1	13.9	13.9	13.9	13.1
45°	11.6	11.6	12.3	11.6	11.6
47.5°	10.0	10.0	10.8	10.0	10.0
50°	9.3	9.3	9.3	9.3	9.3
52.5°	8.5	8.5	8.5	8.5	8.5
55°	7.7	7.7	7.7	7.7	7.7
57.5°	6.9	6.9	6.9	6.9	6.9
60°	6.2	6.2	6.2	6.2	6.2
62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
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°	1.5	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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