

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: P742941

Luminaire Tested: LD4D15D010-EU4DR1515309050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742941
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-EU4DR1515309050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1358.8 lumens
Efficiency: N/A
Efficacy: 86.0 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

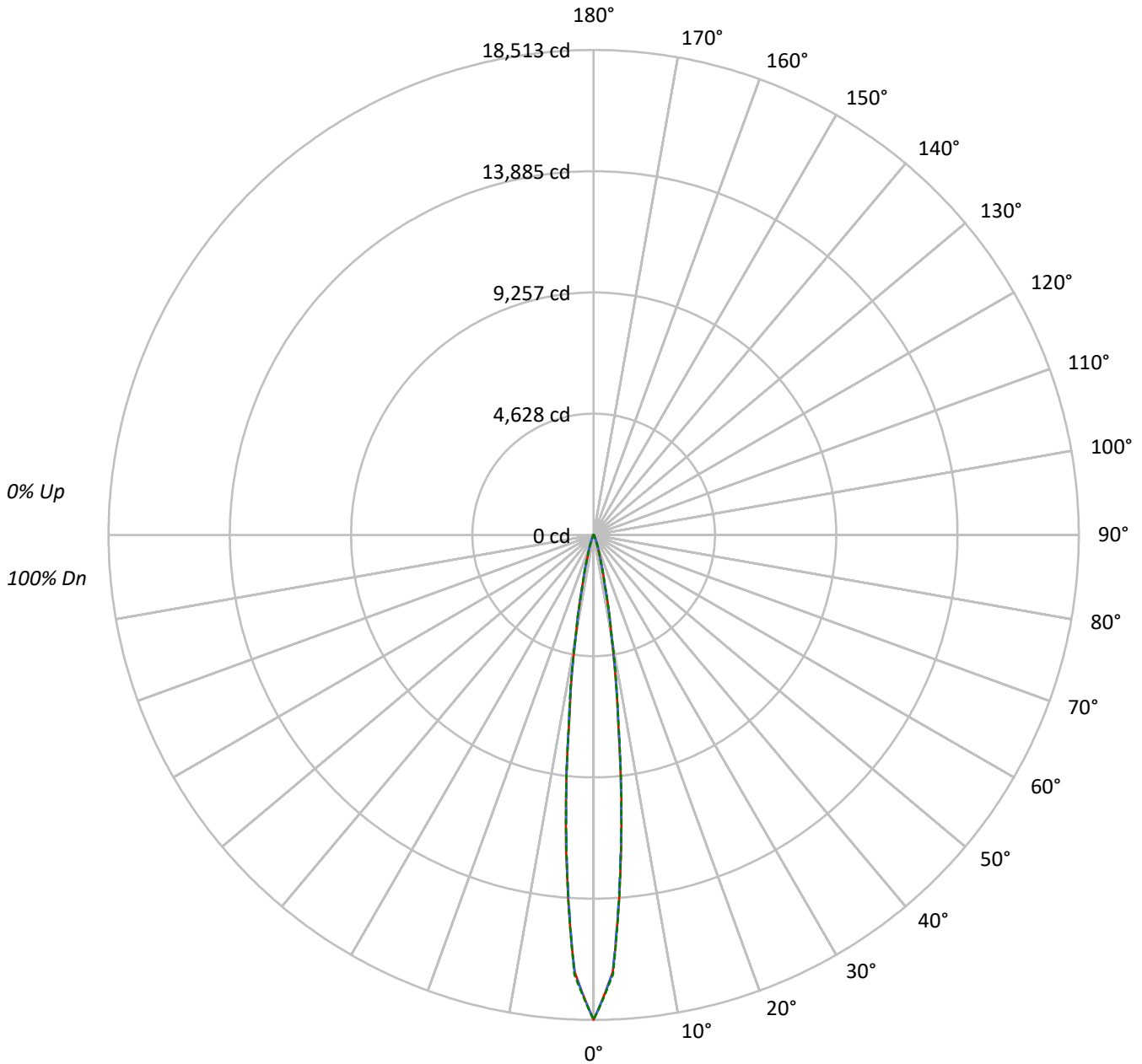


Downlight



TEST NUMBER: P742941
CATALOG NUMBER: LD4D15D010-EU4DR1515309050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P742941

CATALOG NUMBER: LD4D15D010-EU4DR1515309050-4LBDP1B

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	87	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°	2083059	2083059	2083059
5°	1224100	1208256	1217809
10°	365337	367893	373529
15°	90878	92642	89784
20°	27190	31485	27762
25°	9582	12207	9706
30°	3519	4635	3579
35°	1765	1990	1707
40°	1115	1221	1115
45°	826	875	826
50°	654	654	654
55°	543	543	543
60°	442	442	442
65°	335	335	335
70°	285	285	285
75°	181	181	234
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 875 cd/sqm



TEST NUMBER: P742941

CATALOG NUMBER: LD4D15D010-EU4DR1515309050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.2	64.9
10°-20°	362.5	26.7
20°-30°	72.0	5.3
30°-40°	18.0	1.3
40°-50°	9.5	0.7
50°-60°	7.0	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°	1315.7	96.8
0°-40°	1333.7	98.2
0°-60°	1350.2	99.4
0°-90°	1358.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18513	18513	18513	18513	18513	
5°	12045	11921	11889	11971	11983	880
15°	1046	1066	1067	1048	1034	359
25°	123	140	157	139	125	65
35°	24	26	27	26	24	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	



TEST NUMBER: P742941

CATALOG NUMBER: LD4D15D010-EU4DR1515309050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18512.8	18512.8	18512.8	18512.8	18512.8
2.5°	16699.3	16713.4	16718.9	16735.4	16796.5
5°	12044.8	11921.0	11888.9	11971.2	11982.9
7.5°	7134.9	7160.0	7251.7	7272.0	7198.4
10°	3915.4	3947.5	3942.8	3971.1	4003.2
12.5°	2002.4	1977.3	1969.5	2001.6	1956.9
15°	1046.3	1065.8	1066.6	1047.8	1033.7
17.5°	562.7	585.4	623.0	592.5	545.5
20°	332.3	352.7	384.8	359.7	339.3
22.5°	205.3	221.8	244.5	224.9	208.5
25°	123.0	139.5	156.7	138.7	124.6
27.5°	72.9	87.0	98.0	86.2	72.1
30°	47.0	54.9	61.9	54.1	47.8
32.5°	32.9	36.1	39.2	36.1	32.9
35°	24.3	25.9	27.4	25.9	23.5
37.5°	18.8	20.4	21.2	19.6	18.0
40°	15.7	16.5	17.2	16.5	15.7
42.5°	13.3	14.1	14.1	14.1	13.3
45°	11.8	11.8	12.5	11.8	11.8
47.5°	10.2	10.2	11.0	10.2	10.2
50°	9.4	9.4	9.4	9.4	9.4
52.5°	8.6	8.6	8.6	8.6	8.6
55°	7.8	7.8	7.8	7.8	7.8
57.5°	7.1	7.1	7.1	7.1	7.1
60°	6.3	6.3	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	5.5	5.5
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°	2.4	2.4	2.4	2.4	3.1
77.5°	2.4	2.4	2.4	2.4	2.4
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)