

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: P741931

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741931
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: LD4D10D010-EU4DR150210IC9050-4LBDP1B
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: 1011.2 lumens
Efficiency: N/A
Efficacy: 86.4 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): 11.7
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

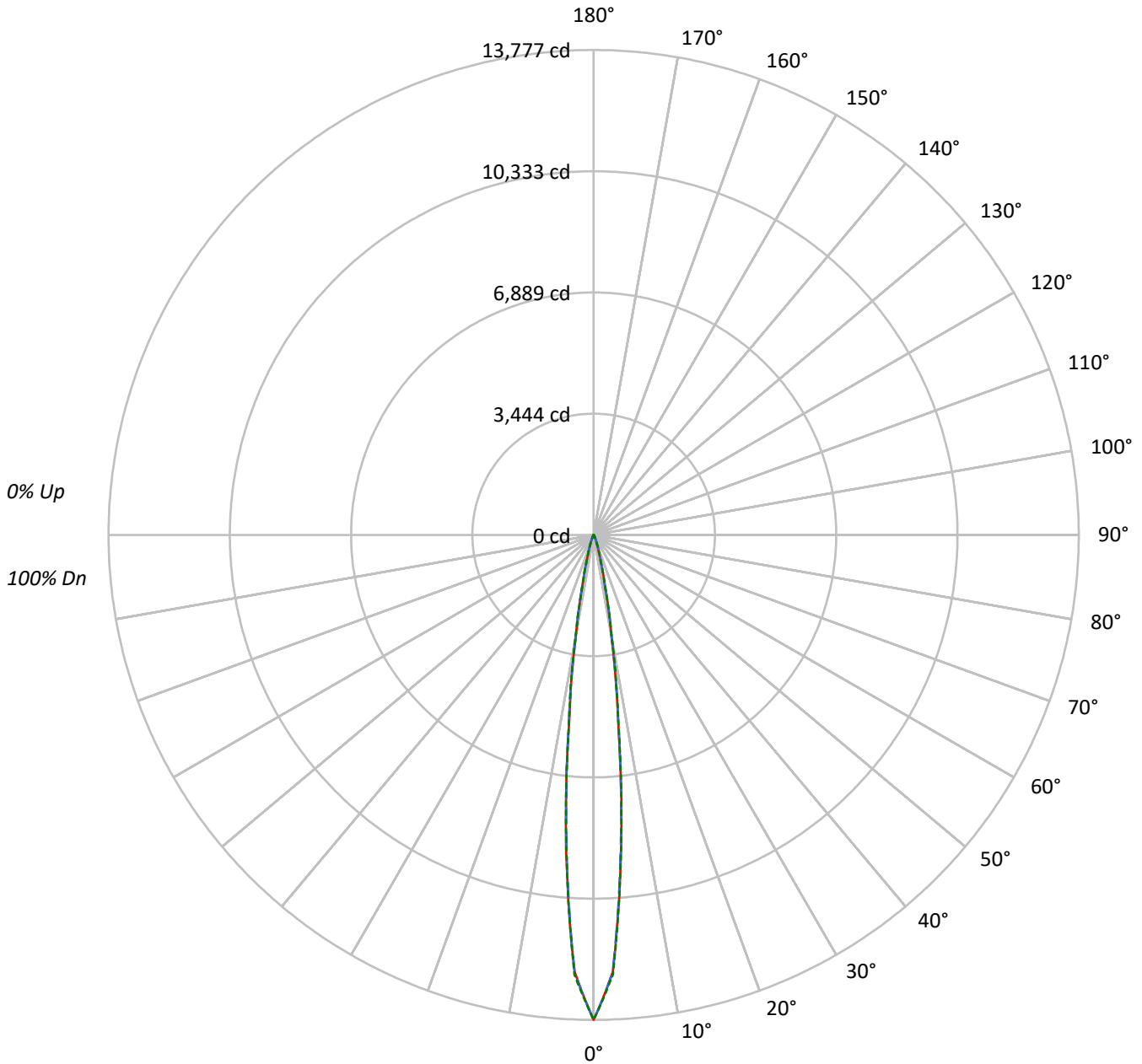


Downlight



TEST NUMBER: P741931
CATALOG NUMBER: LD4D10D010-EU4DR150210IC9050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P741931

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9050-4LBDP1B

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	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°	1550221	1550221	1550221
5°	910981	899182	906296
10°	271889	273792	277982
15°	67627	68947	66819
20°	20235	23434	20660
25°	7136	9083	7221
30°	2621	3452	2666
35°	1314	1481	1271
40°	831	909	831
45°	609	651	609
50°	487	487	487
55°	404	404	404
60°	330	330	330
65°	250	250	250
70°	212	212	212
75°	128	128	174
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 651 cd/sqm



TEST NUMBER: P741931

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.8	64.9
10°-20°	269.8	26.7
20°-30°	53.6	5.3
30°-40°	13.4	1.3
40°-50°	7.0	0.7
50°-60°	5.2	0.5
60°-70°	3.7	0.4
70°-80°	2.1	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°	979.2	96.8
0°-40°	992.5	98.2
0°-60°	1004.8	99.4
0°-90°	1011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13777	13777	13777	13777	13777	
5°	8964	8872	8848	8909	8918	655
15°	779	793	794	780	769	267
25°	92	104	117	103	93	48
35°	18	19	20	19	18	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
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	



TEST NUMBER: P741931

CATALOG NUMBER: LD4D10D010-EU4DR150210IC9050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13777.3	13777.3	13777.3	13777.3	13777.3
2.5°	12427.7	12438.2	12442.2	12454.5	12500.0
5°	8963.8	8871.7	8847.7	8909.0	8917.7
7.5°	5309.8	5328.5	5396.7	5411.9	5357.1
10°	2913.9	2937.8	2934.3	2955.3	2979.2
12.5°	1490.2	1471.5	1465.7	1489.6	1456.3
15°	778.6	793.2	793.8	779.8	769.3
17.5°	418.8	435.7	463.7	440.9	405.9
20°	247.3	262.5	286.4	267.7	252.5
22.5°	152.8	165.1	182.0	167.4	155.1
25°	91.6	103.8	116.6	103.2	92.7
27.5°	54.2	64.7	72.9	64.2	53.7
30°	35.0	40.8	46.1	40.2	35.6
32.5°	24.5	26.8	29.2	26.8	24.5
35°	18.1	19.2	20.4	19.2	17.5
37.5°	14.0	15.2	15.7	14.6	13.4
40°	11.7	12.2	12.8	12.2	11.7
42.5°	9.9	10.5	10.5	10.5	9.9
45°	8.7	8.7	9.3	8.7	8.7
47.5°	7.6	7.6	8.2	7.6	7.6
50°	7.0	7.0	7.0	7.0	7.0
52.5°	6.4	6.4	6.4	6.4	6.4
55°	5.8	5.8	5.8	5.8	5.8
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
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



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)