

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: P743892

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743892
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: LD4D20D010-EU4DR1515309030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1839.9 lumens
Efficiency: N/A
Efficacy: 79.6 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): 23.1
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

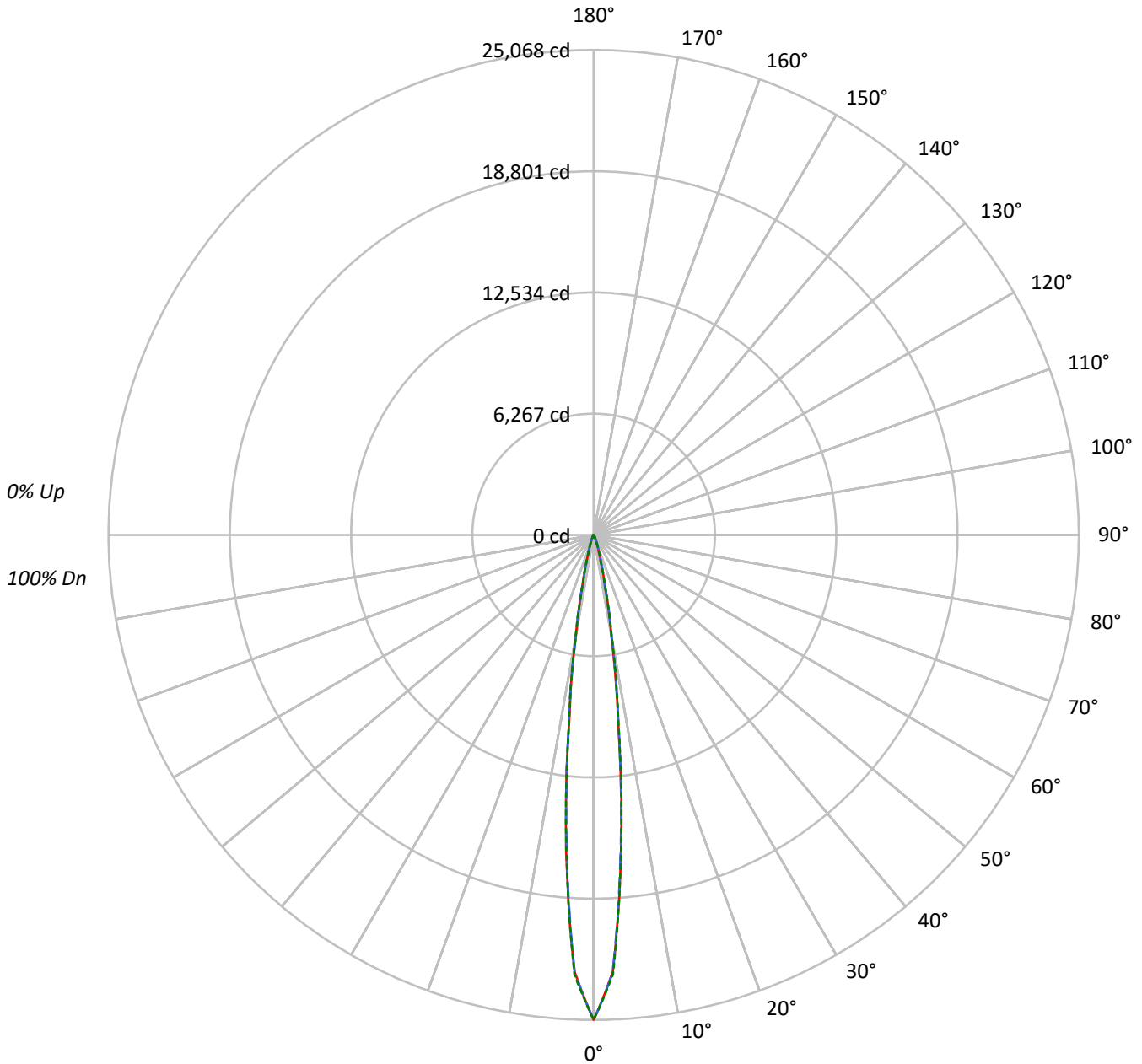


Downlight



TEST NUMBER: P743892
CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P743892

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBS1B

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°	2820616	2820616	2820616
5°	1657527	1636063	1649010
10°	494698	498160	505783
15°	123050	125447	121574
20°	36812	42638	37598
25°	12978	16531	13142
30°	4770	6275	4845
35°	2389	2694	2309
40°	1506	1655	1506
45°	1113	1190	1113
50°	883	883	883
55°	738	738	738
60°	597	597	597
65°	457	457	457
70°	388	388	388
75°	242	242	317
80°	166	166	166
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1190 cd/sqm



TEST NUMBER: P743892

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1193.3	64.9
10°-20°	490.8	26.7
20°-30°	97.5	5.3
30°-40°	24.3	1.3
40°-50°	12.8	0.7
50°-60°	9.5	0.5
60°-70°	6.7	0.4
70°-80°	3.8	0.2
80°-90°	1.2	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°	1781.6	96.8
0°-40°	1805.9	98.2
0°-60°	1828.2	99.4
0°-90°	1839.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25068	25068	25068	25068	25068	
5°	16310	16142	16098	16210	16226	1191
15°	1417	1443	1444	1419	1400	486
25°	167	189	212	188	169	87
35°	33	35	37	35	32	22
45°	16	16	17	16	16	12
55°	11	11	11	11	11	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P743892

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25067.7	25067.7	25067.7	25067.7	25067.7
2.5°	22612.1	22631.2	22638.6	22660.9	22743.7
5°	16309.6	16141.9	16098.4	16209.9	16225.8
7.5°	9661.2	9695.1	9819.3	9846.9	9747.1
10°	5301.8	5345.3	5338.9	5377.1	5420.6
12.5°	2711.4	2677.4	2666.8	2710.3	2649.8
15°	1416.7	1443.2	1444.3	1418.8	1399.7
17.5°	761.9	792.7	843.7	802.3	738.6
20°	449.9	477.5	521.1	487.1	459.5
22.5°	278.0	300.3	331.1	304.6	282.3
25°	166.6	188.9	212.2	187.8	168.7
27.5°	98.7	117.8	132.7	116.7	97.6
30°	63.7	74.3	83.8	73.2	64.7
32.5°	44.6	48.8	53.1	48.8	44.6
35°	32.9	35.0	37.1	35.0	31.8
37.5°	25.5	27.6	28.7	26.5	24.4
40°	21.2	22.3	23.3	22.3	21.2
42.5°	18.0	19.1	19.1	19.1	18.0
45°	15.9	15.9	17.0	15.9	15.9
47.5°	13.8	13.8	14.9	13.8	13.8
50°	12.7	12.7	12.7	12.7	12.7
52.5°	11.7	11.7	11.7	11.7	11.7
55°	10.6	10.6	10.6	10.6	10.6
57.5°	9.6	9.6	9.6	9.6	9.6
60°	8.5	8.5	8.5	8.5	8.5
62.5°	7.4	7.4	7.4	7.4	7.4
65°	6.4	6.4	6.4	6.4	6.4
67.5°	6.4	6.4	6.4	6.4	6.4
70°	5.3	5.3	5.3	5.3	5.3
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.2	3.2	3.2	3.2	4.2
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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)