

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: P745741

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745741
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: LD4D30D010-EU4DR1515309024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2359.8 lumens
Efficiency: N/A
Efficacy: 81.4 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): 29
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



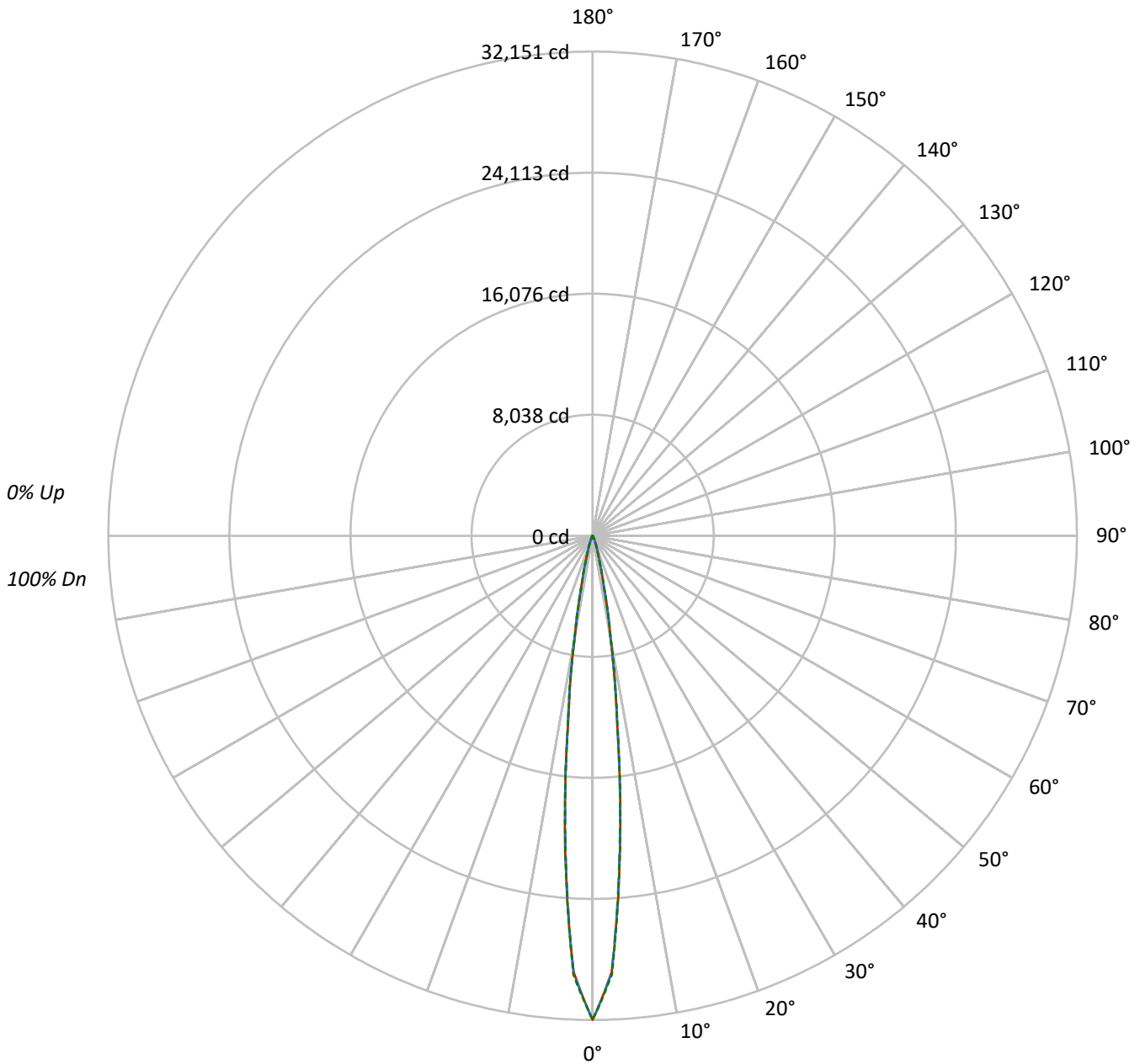
Downlight



TEST NUMBER: P745741

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745741

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBS1MW

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°	3617663	3617663	3617663
5°	2125914	2098383	2114979
10°	634482	638933	648712
15°	157819	160894	155934
20°	47220	54682	48218
25°	16647	21205	16858
30°	6118	8050	6215
35°	3065	3457	2963
40°	1932	2123	1932
45°	1428	1526	1428
50°	1133	1133	1133
55°	947	947	947
60°	765	765	765
65°	585	585	585
70°	497	497	497
75°	310	310	408
80°	213	213	213
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1526 cd/sqm



TEST NUMBER: P745741

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1530.5	64.9
10°-20°	629.5	26.7
20°-30°	125.0	5.3
30°-40°	31.2	1.3
40°-50°	16.4	0.7
50°-60°	12.2	0.5
60°-70°	8.6	0.4
70°-80°	4.9	0.2
80°-90°	1.5	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°	2285.0	96.8
0°-40°	2316.2	98.2
0°-60°	2344.8	99.4
0°-90°	2359.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32151	32151	32151	32151	32151	
5°	20918	20703	20648	20790	20811	1528
15°	1817	1851	1852	1820	1795	623
25°	214	242	272	241	216	112
35°	42	45	48	45	41	29
45°	20	20	22	20	20	16
55°	14	14	14	14	14	12
65°	8	8	8	8	8	9
75°	4	4	4	4	5	5
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P745741

CATALOG NUMBER: LD4D30D010-EU4DR1515309024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32151.3	32151.3	32151.3	32151.3	32151.3
2.5°	29001.8	29026.3	29035.8	29064.4	29170.6
5°	20918.4	20703.3	20647.5	20790.4	20810.8
7.5°	12391.2	12434.8	12594.0	12629.4	12501.5
10°	6799.9	6855.7	6847.6	6896.6	6952.4
12.5°	3477.5	3434.0	3420.4	3476.2	3398.6
15°	1817.0	1851.1	1852.4	1819.8	1795.3
17.5°	977.3	1016.7	1082.1	1029.0	947.3
20°	577.1	612.5	668.3	624.7	589.3
22.5°	356.6	385.2	424.7	390.6	362.0
25°	213.7	242.3	272.2	240.9	216.4
27.5°	126.6	151.1	170.1	149.7	125.2
30°	81.7	95.3	107.5	93.9	83.0
32.5°	57.2	62.6	68.1	62.6	57.2
35°	42.2	44.9	47.6	44.9	40.8
37.5°	32.7	35.4	36.7	34.0	31.3
40°	27.2	28.6	29.9	28.6	27.2
42.5°	23.1	24.5	24.5	24.5	23.1
45°	20.4	20.4	21.8	20.4	20.4
47.5°	17.7	17.7	19.1	17.7	17.7
50°	16.3	16.3	16.3	16.3	16.3
52.5°	15.0	15.0	15.0	15.0	15.0
55°	13.6	13.6	13.6	13.6	13.6
57.5°	12.2	12.2	12.2	12.2	12.2
60°	10.9	10.9	10.9	10.9	10.9
62.5°	9.5	9.5	9.5	9.5	9.5
65°	8.2	8.2	8.2	8.2	8.2
67.5°	8.2	8.2	8.2	8.2	8.2
70°	6.8	6.8	6.8	6.8	6.8
72.5°	5.4	5.4	5.4	5.4	5.4
75°	4.1	4.1	4.1	4.1	5.4
77.5°	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7
85°	1.4	1.4	1.4	1.4	1.4
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)