

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



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: P745977

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR3020359024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1918.3 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
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



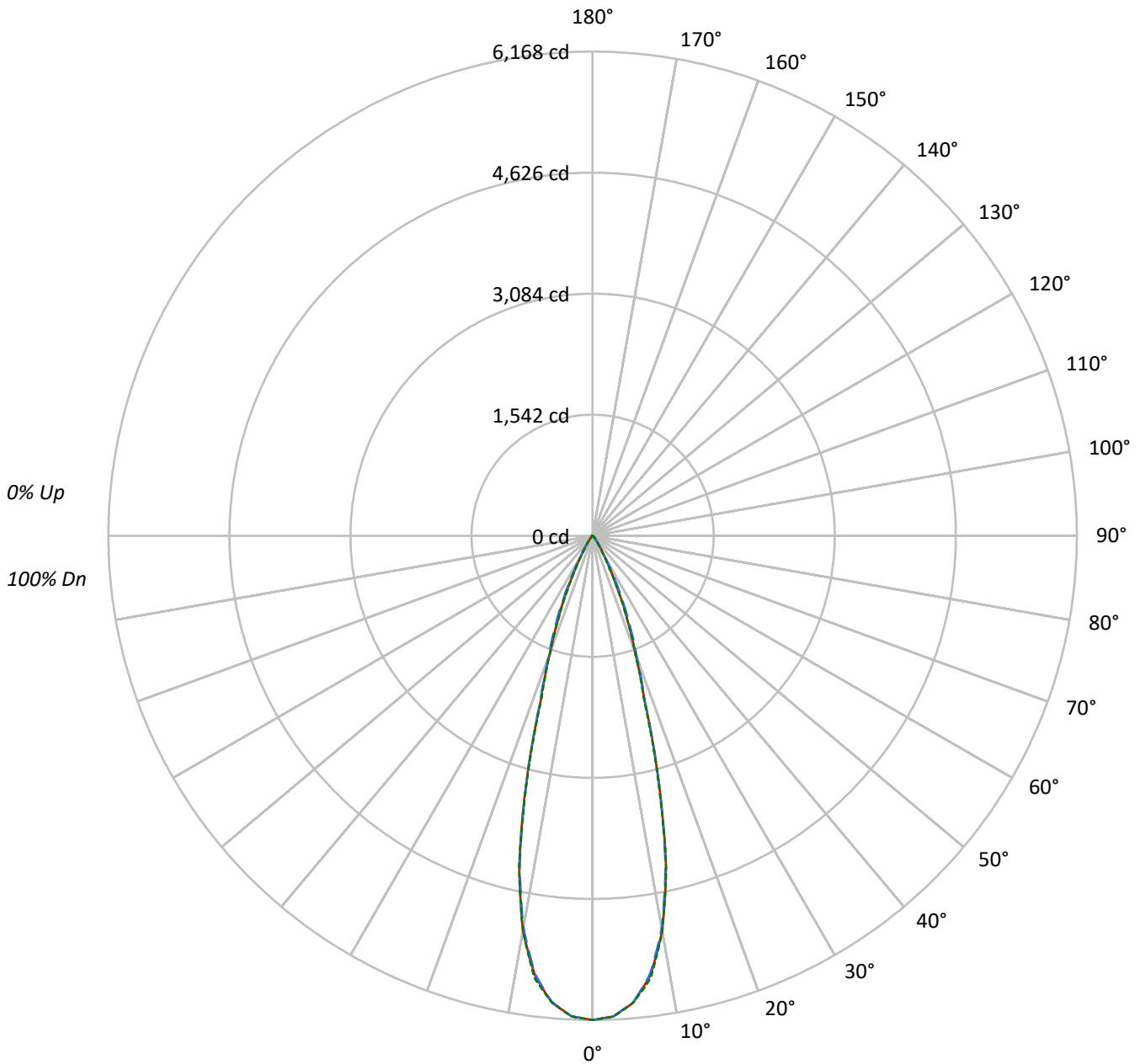
Downlight



TEST NUMBER: P745977

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745977

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBSQW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96								
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92								
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89								
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85								
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82								
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79								
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77								
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74								
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72								
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	472143	472143	472143
5°	458587	458049	458610
10°	397210	394411	397108
15°	259158	257763	256472
20°	128863	133702	128692
25°	64913	73207	63587
30°	25985	28318	22644
35°	12054	11549	9681
40°	5206	5785	4896
45°	3670	4557	3702
50°	1262	3310	1334
55°	721	1375	761
60°	505	612	505
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4557 cd/sqm



TEST NUMBER: P745977

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	28.3
10°-20°	873.6	45.5
20°-30°	377.5	19.7
30°-40°	86.0	4.5
40°-50°	29.5	1.5
50°-60°	7.2	0.4
60°-70°	1.9	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
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°	1793.4	93.5
0°-40°	1879.5	98.0
0°-60°	1916.2	99.9
0°-90°	1918.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6168	6168	6168	6168	6168	
5°	5968	5963	5961	5974	5969	543
15°	3270	3231	3253	3242	3236	876
25°	769	798	867	777	753	368
35°	129	132	124	123	104	88
45°	34	42	42	42	34	24
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P745977

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6168.3	6168.3	6168.3	6168.3	6168.3
2.5°	6127.4	6123.2	6125.6	6128.6	6129.8
5°	5968.4	5962.7	5961.4	5973.9	5968.7
7.5°	5647.7	5639.6	5627.1	5655.3	5681.6
10°	5110.5	5101.4	5074.5	5087.7	5109.2
12.5°	4317.3	4288.0	4287.3	4329.7	4324.0
15°	3270.4	3231.0	3252.8	3242.2	3236.5
17.5°	2199.3	2184.1	2213.2	2204.4	2166.6
20°	1582.0	1586.0	1641.4	1613.5	1579.9
22.5°	1154.4	1168.6	1234.4	1162.6	1136.3
25°	768.6	797.7	866.8	777.4	752.9
27.5°	472.7	486.0	556.0	466.7	453.4
30°	294.0	287.4	320.4	275.0	256.2
32.5°	192.9	184.4	195.0	175.0	159.9
35°	129.0	131.7	123.6	122.7	103.6
37.5°	80.6	92.6	81.8	87.2	66.6
40°	52.1	67.2	57.9	63.9	49.0
42.5°	42.7	51.8	47.6	50.6	43.6
45°	33.9	42.1	42.1	42.1	34.2
47.5°	18.8	28.2	36.0	28.8	20.0
50°	10.6	14.2	27.8	14.8	11.2
52.5°	7.3	8.2	19.1	8.5	7.6
55°	5.4	5.7	10.3	6.1	5.7
57.5°	4.2	4.5	5.4	4.5	4.2
60°	3.3	3.3	4.0	3.6	3.3
62.5°	2.4	2.4	2.8	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)