

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: P745975

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745975
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-EU4DR3020359024-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 2283.0 lumens
Efficiency: N/A
Efficacy: 78.7 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 (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

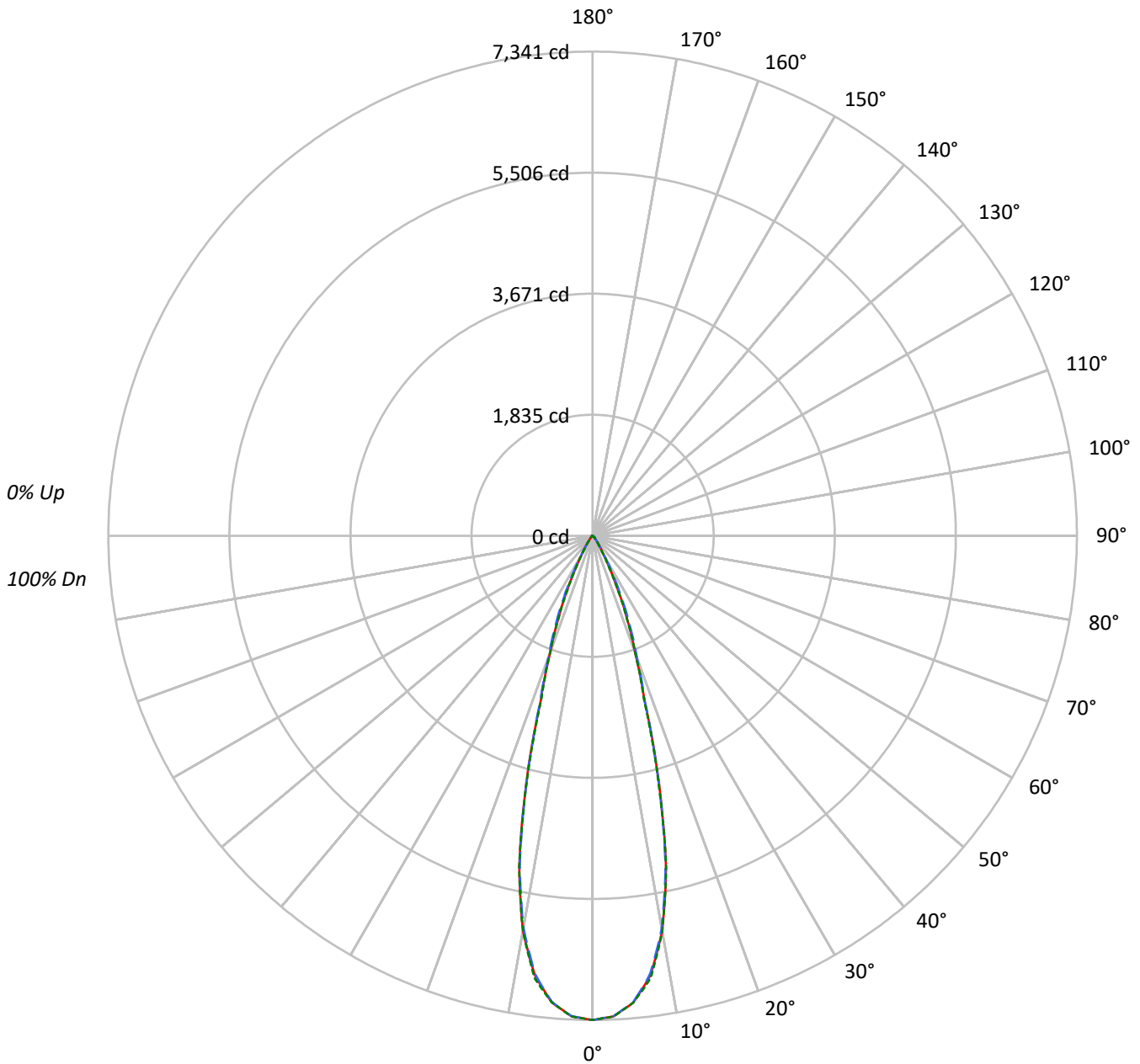


Downlight



TEST NUMBER: P745975
CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P745975

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1MW

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	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°	561905	561905	561905
5°	545780	545134	545803
10°	472719	469392	472610
15°	308432	306776	305230
20°	153365	159124	153161
25°	77252	87117	75673
30°	30935	33701	26948
35°	14353	13745	11512
40°	6195	6875	5835
45°	4373	5423	4406
50°	1500	3953	1584
55°	867	1641	921
60°	612	720	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5423 cd/sqm



TEST NUMBER: P745975

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.5	28.3
10°-20°	1039.6	45.5
20°-30°	449.2	19.7
30°-40°	102.4	4.5
40°-50°	35.2	1.5
50°-60°	8.6	0.4
60°-70°	2.2	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°	2134.4	93.5
0°-40°	2236.8	98.0
0°-60°	2280.6	99.9
0°-90°	2283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7341	7341	7341	7341	7341	
5°	7103	7096	7095	7110	7104	646
15°	3892	3845	3871	3859	3852	1042
25°	915	949	1032	925	896	438
35°	154	157	147	146	123	104
45°	40	50	50	50	41	29
55°	6	7	12	7	7	6
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	0



TEST NUMBER: P745975

CATALOG NUMBER: LD4D30D010-EU4DR3020359024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7341.0	7341.0	7341.0	7341.0	7341.0
2.5°	7292.3	7287.3	7290.2	7293.8	7295.2
5°	7103.2	7096.3	7094.8	7109.6	7103.5
7.5°	6721.5	6711.7	6696.9	6730.5	6761.8
10°	6082.0	6071.3	6039.2	6055.1	6080.6
12.5°	5138.1	5103.2	5102.5	5152.9	5146.1
15°	3892.2	3845.3	3871.3	3858.7	3851.8
17.5°	2617.4	2599.4	2633.9	2623.5	2578.5
20°	1882.8	1887.5	1953.5	1920.3	1880.3
22.5°	1373.9	1390.8	1469.0	1383.6	1352.3
25°	914.7	949.3	1031.5	925.2	896.0
27.5°	562.6	578.5	661.7	555.4	539.5
30°	350.0	342.1	381.3	327.3	304.9
32.5°	229.6	219.5	232.1	208.3	190.3
35°	153.6	156.8	147.1	146.0	123.2
37.5°	95.9	110.3	97.3	103.8	79.3
40°	62.0	80.0	68.8	76.0	58.4
42.5°	50.8	61.6	56.6	60.2	51.9
45°	40.4	50.1	50.1	50.1	40.7
47.5°	22.3	33.5	42.9	34.3	23.8
50°	12.6	17.0	33.2	17.6	13.3
52.5°	8.7	9.7	22.7	10.1	9.0
55°	6.5	6.9	12.3	7.2	6.9
57.5°	5.0	5.4	6.5	5.4	5.0
60°	4.0	4.0	4.7	4.3	4.0
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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)