

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: P746012

Luminaire Tested: LD4D30D010-EU4DR3020359035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746012
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-EU4DR3020359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2906.3 lumens
Efficiency: N/A
Efficacy: 100.2 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

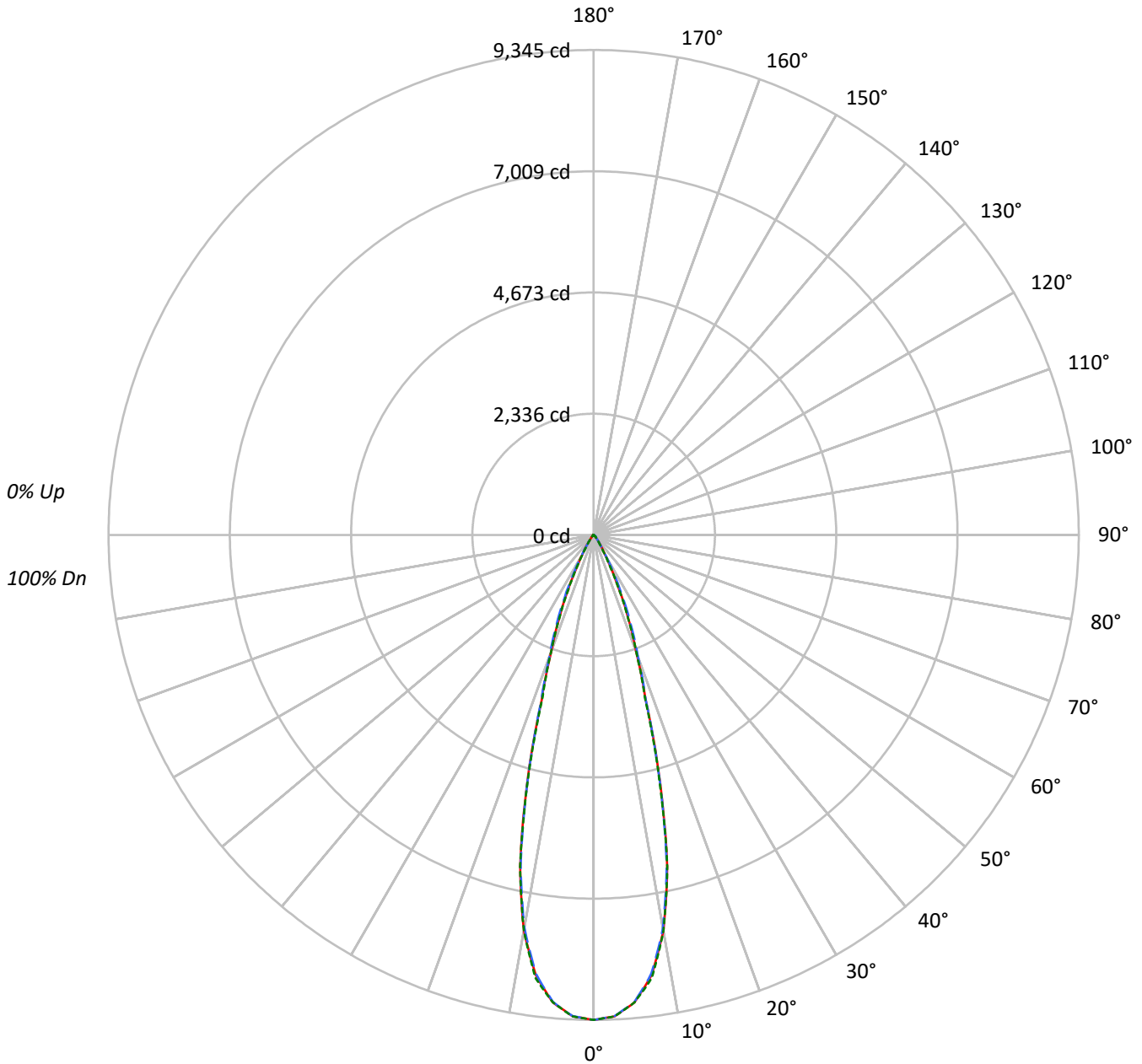


Downlight



TEST NUMBER: P746012
CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P746012

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBS1H

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°	715298	715298	715298
5°	694764	693950	694803
10°	601772	597528	601624
15°	392620	390520	388555
20°	195233	202556	194973
25°	98349	110900	96331
30°	39375	42902	34311
35°	18259	17492	14661
40°	7884	8753	7424
45°	5564	6906	5618
50°	1905	5025	2024
55°	1108	2082	1161
60°	765	919	765
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6906 cd/sqm



TEST NUMBER: P746012

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.7	28.3
10°-20°	1323.4	45.5
20°-30°	571.9	19.7
30°-40°	130.3	4.5
40°-50°	44.8	1.5
50°-60°	10.9	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2717.1	93.5
0°-40°	2847.4	98.0
0°-60°	2903.1	99.9
0°-90°	2906.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9345	9345	9345	9345	9345	
5°	9042	9033	9032	9050	9043	822
15°	4955	4895	4928	4912	4903	1327
25°	1164	1208	1313	1178	1141	557
35°	195	200	187	186	157	133
45°	51	64	64	64	52	36
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P746012

CATALOG NUMBER: LD4D30D010-EU4DR3020359035-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9345.0	9345.0	9345.0	9345.0	9345.0
2.5°	9283.1	9276.6	9280.3	9284.9	9286.7
5°	9042.2	9033.4	9031.6	9050.4	9042.7
7.5°	8556.3	8543.9	8525.1	8567.8	8607.7
10°	7742.4	7728.6	7687.8	7708.0	7740.5
12.5°	6540.7	6496.2	6495.3	6559.5	6550.8
15°	4954.6	4895.0	4928.1	4912.0	4903.3
17.5°	3331.9	3308.9	3353.0	3339.7	3282.3
20°	2396.8	2402.8	2486.7	2444.6	2393.6
22.5°	1749.0	1770.5	1870.1	1761.4	1721.4
25°	1164.5	1208.5	1313.1	1177.8	1140.6
27.5°	716.2	736.4	842.4	707.0	686.9
30°	445.5	435.4	485.4	416.6	388.2
32.5°	292.3	279.4	295.5	265.2	242.2
35°	195.4	199.6	187.2	185.8	156.9
37.5°	122.0	140.4	123.9	132.1	101.0
40°	78.9	101.9	87.6	96.8	74.3
42.5°	64.7	78.4	72.0	76.6	66.1
45°	51.4	63.8	63.8	63.8	51.9
47.5°	28.4	42.7	54.6	43.6	30.3
50°	16.0	21.5	42.2	22.5	17.0
52.5°	11.0	12.4	28.9	12.8	11.5
55°	8.3	8.7	15.6	9.2	8.7
57.5°	6.4	6.9	8.3	6.9	6.4
60°	5.0	5.0	6.0	5.5	5.0
62.5°	3.7	3.7	4.1	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)