

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: P745848

Luminaire Tested: LD4D30D010-EU4DR2015309035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR2015309035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2800.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' 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

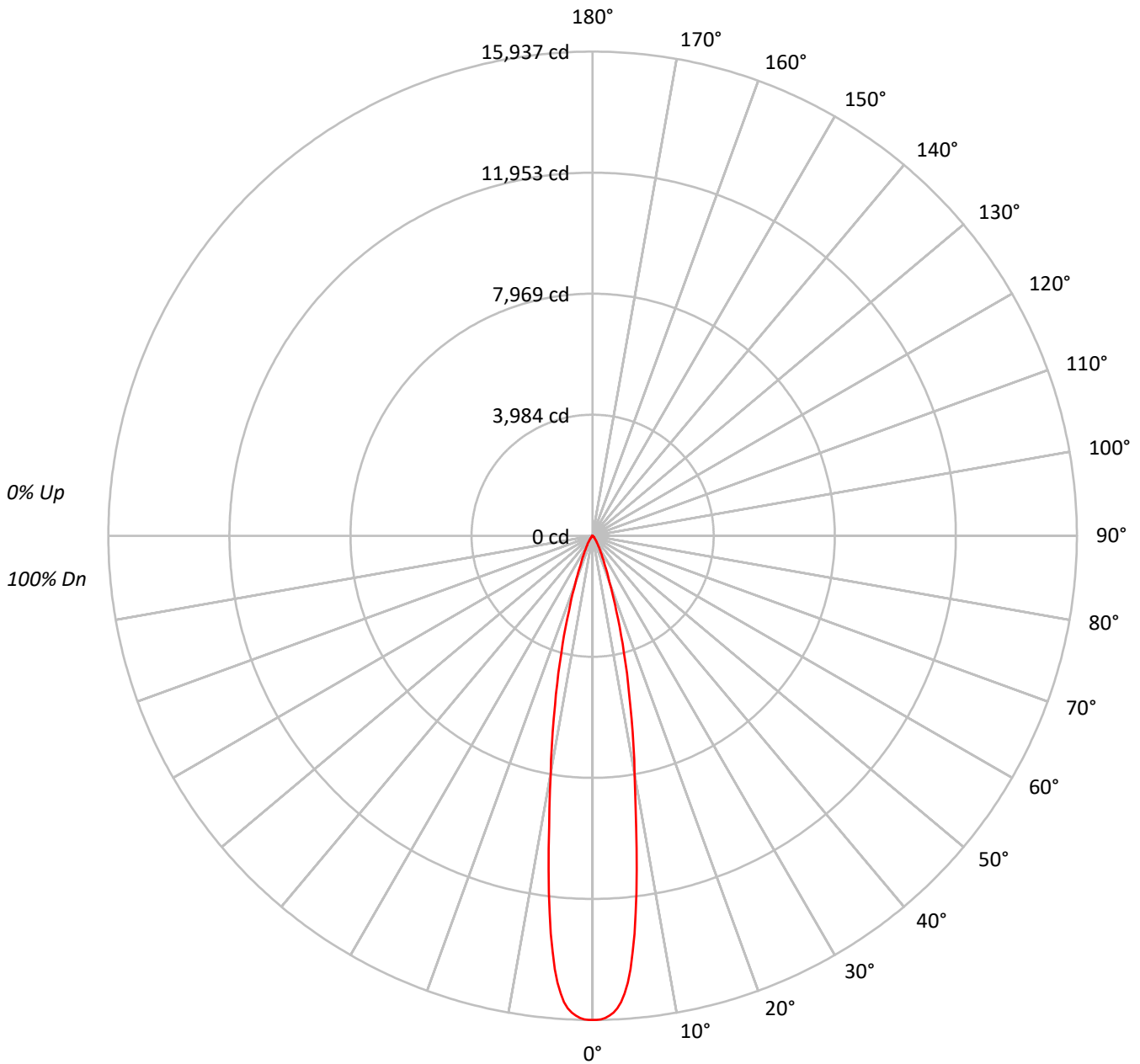


Downlight



TEST NUMBER: P745848
CATALOG NUMBER: LD4D30D010-EU4DR2015309035-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P745848

CATALOG NUMBER: LD4D30D010-EU4DR2015309035-4LBCSSQMB

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			100																
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	97																
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	98	96	95																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	95	93	92																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	93	91	89																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	91	88	86																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	88	86	84																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	86	84	82																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	84	82	80																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	82	80	78																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	81	78	76																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1741321
5°	1570996
10°	881723
15°	448196
20°	189757
25°	87596
30°	46378
35°	24983
40°	13364
45°	7896
50°	4589
55°	2438
60°	1552
65°	1112
70°	447
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7896 cd/sqm



TEST NUMBER: P745848

CATALOG NUMBER: LD4D30D010-EU4DR2015309035-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1134.7	40.5
10°-20°	1117.3	39.9
20°-30°	365.0	13.0
30°-40°	124.3	4.4
40°-50°	41.8	1.5
50°-60°	12.6	0.4
60°-70°	4.2	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°	2617.0	93.5
0°-40°	2741.3	97.9
0°-60°	2795.7	99.8
0°-90°	2800.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15937	
5°	14324	###
15°	3962	1117
25°	727	365
35°	187	124
45°	51	42
55°	13	13
65°	4	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745848
CATALOG NUMBER: LD4D30D010-EU4DR2015309035-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	15937.3
0.5°	15937.3
1°	15917.4
1.5°	15877.7
2°	15805.3
2.5°	15708.8
3°	15572.5
3.5°	15382.4
4°	15100.0
4.5°	14756.5
5°	14323.7
5.5°	13754.6
6°	13171.3
6.5°	12502.9
7°	11848.6
7.5°	11082.3
8°	10398.2
8.5°	9710.0
9°	9074.2
9.5°	8490.9
10°	7947.3
12.5°	5706.5
15°	3962.3
17.5°	2588.6
20°	1632.0
22.5°	1057.3
25°	726.6
27.5°	510.9
30°	367.6
32.5°	264.0
35°	187.3
37.5°	130.6
40°	93.7
42.5°	68.1
45°	51.1
47.5°	39.7
50°	27.0
52.5°	17.0
55°	12.8
57.5°	9.9
60°	7.1
62.5°	5.7
65°	4.3



TEST NUMBER: P745848
CATALOG NUMBER: LD4D30D010-EU4DR2015309035-4LBCSSQMB

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



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

Scaled Data Report



— 0°-180°

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





67.5°		2.8
70°		1.4

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

Scaled Data Report



(END OF REPORT)