

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: P745200

Luminaire Tested: LD4D25D010-EU4DR4020359027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D25D010-EU4DR4020359027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.7 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
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

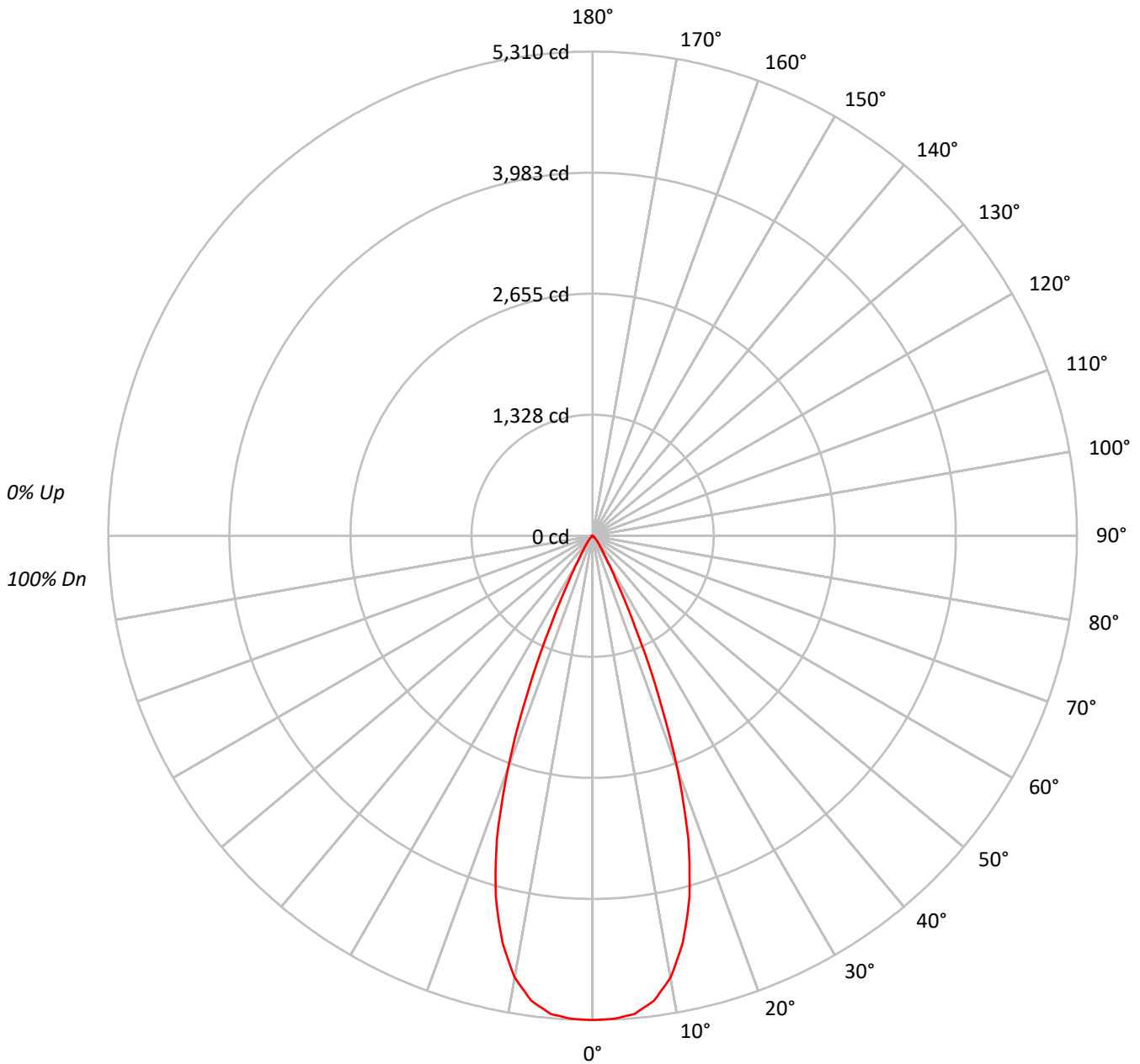


Downlight



TEST NUMBER: P745200
CATALOG NUMBER: LD4D25D010-EU4DR4020359027-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P745200

CATALOG NUMBER: LD4D25D010-EU4DR4020359027-4LBCSSQMW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	580196
5°	577368
10°	545745
15°	463953
20°	316216
25°	131936
30°	41483
35°	19287
40°	10669
45°	4883
50°	2380
55°	1295
60°	677
65°	233
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4883 cd/sqm



TEST NUMBER: P745200

CATALOG NUMBER: LD4D25D010-EU4DR4020359027-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	21.6
10°-20°	1101.2	48.3
20°-30°	551.2	24.2
30°-40°	101.1	4.4
40°-50°	27.9	1.2
50°-60°	6.6	0.3
60°-70°	1.2	0.1
70°-80°	0.0	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°	2144.0	94.0
0°-40°	2245.0	98.4
0°-60°	2279.5	99.9
0°-90°	2280.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5310	
5°	5264	492
15°	4102	1101
25°	1094	551
35°	145	101
45°	32	28
55°	7	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745200

CATALOG NUMBER: LD4D25D010-EU4DR4020359027-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

0°	
0°	5310.2
2.5°	5302.4
5°	5264.2
7.5°	5142.6
10°	4919.0
12.5°	4570.3
15°	4101.6
17.5°	3492.0
20°	2719.6
22.5°	1854.1
25°	1094.4
27.5°	578.6
30°	328.8
32.5°	212.5
35°	144.6
37.5°	103.3
40°	74.8
42.5°	51.2
45°	31.6
47.5°	20.2
50°	14.0
52.5°	9.9
55°	6.8
57.5°	4.4
60°	3.1
62.5°	1.8
65°	0.9
67.5°	0.6
70°	0.3
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



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

Scaled Data Report



(END OF REPORT)