

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: P742964

Luminaire Tested: LD4D15D010-EU4DR2015309027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742964
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: LD4D15D010-EU4DR2015309027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1288.0 lumens
Efficiency: N/A
Efficacy: 81.5 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): 15.8
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

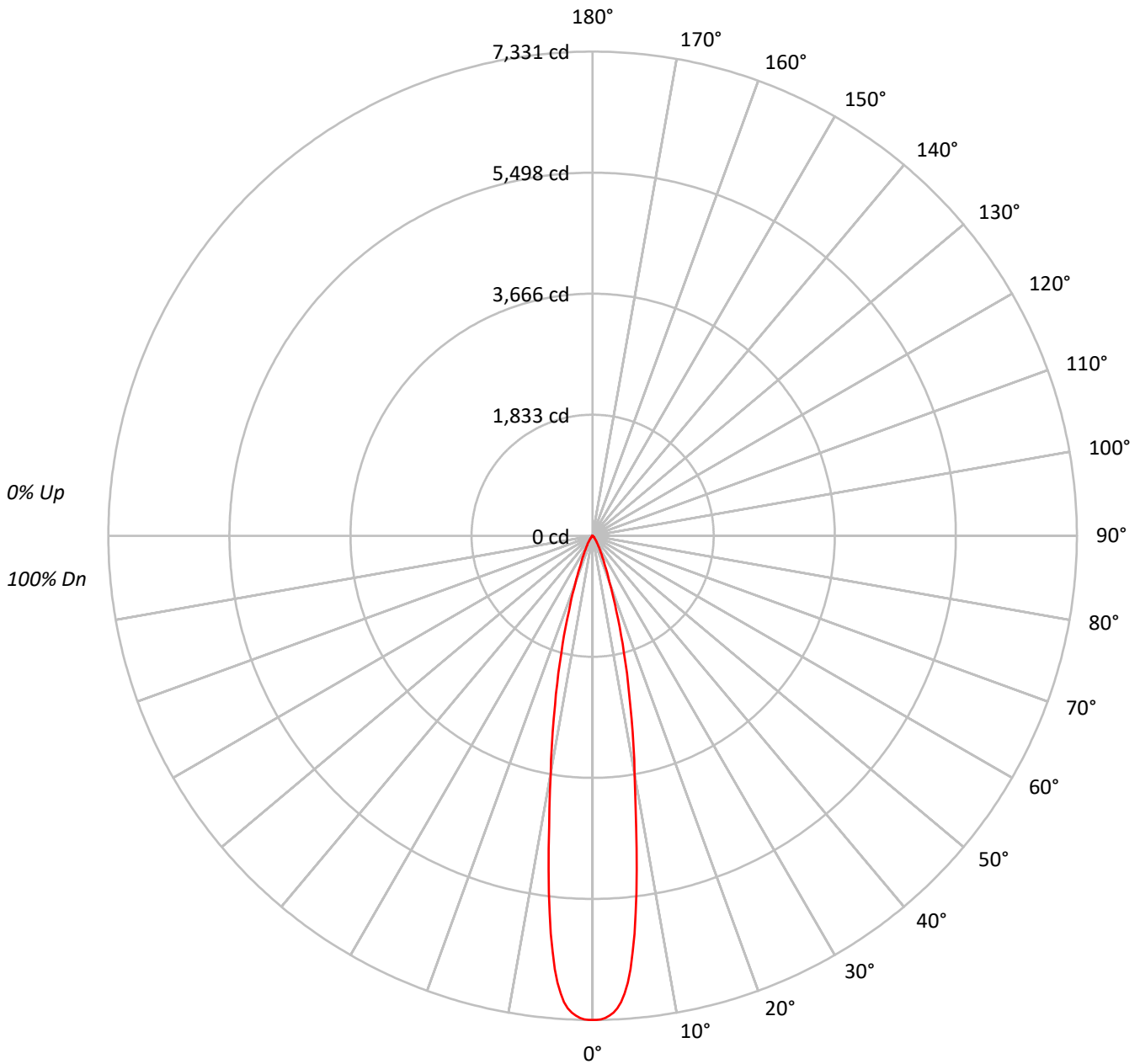


Downlight



TEST NUMBER: P742964
CATALOG NUMBER: LD4D15D010-EU4DR2015309027-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P742964

CATALOG NUMBER: LD4D15D010-EU4DR2015309027-4LBCSSQMB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	800991
5°	722636
10°	405586
15°	206164
20°	87286
25°	40290
30°	21334
35°	11498
40°	6147
45°	3631
50°	2108
55°	1124
60°	721
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3631 cd/sqm



TEST NUMBER: P742964

CATALOG NUMBER: LD4D15D010-EU4DR2015309027-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	40.5
10°-20°	514.0	39.9
20°-30°	167.9	13.0
30°-40°	57.2	4.4
40°-50°	19.2	1.5
50°-60°	5.8	0.4
60°-70°	1.9	0.2
70°-80°	0.1	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°	1203.8	93.5
0°-40°	1261.0	97.9
0°-60°	1286.0	99.8
0°-90°	1288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1288.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7331	
5°	6589	522
15°	1823	514
25°	334	168
35°	86	57
45°	24	19
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742964
CATALOG NUMBER: LD4D15D010-EU4DR2015309027-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	7331.0
0.5°	7331.0
1°	7321.8
1.5°	7303.5
2°	7270.3
2.5°	7225.9
3°	7163.2
3.5°	7075.7
4°	6945.8
4.5°	6787.8
5°	6588.7
5.5°	6327.0
6°	6058.7
6.5°	5751.2
7°	5450.2
7.5°	5097.7
8°	4783.1
8.5°	4466.5
9°	4174.0
9.5°	3905.7
10°	3655.7
12.5°	2624.9
15°	1822.6
17.5°	1190.7
20°	750.7
22.5°	486.3
25°	334.2
27.5°	235.0
30°	169.1
32.5°	121.4
35°	86.2
37.5°	60.1
40°	43.1
42.5°	31.3
45°	23.5
47.5°	18.3
50°	12.4
52.5°	7.8
55°	5.9
57.5°	4.6
60°	3.3
62.5°	2.6
65°	2.0



TEST NUMBER: P742964
CATALOG NUMBER: LD4D15D010-EU4DR2015309027-4LBCSSQMB

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





— 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°		1.3
70°		0.7

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

Scaled Data Report



(END OF REPORT)