

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: P742996

Luminaire Tested: LD4D15D010-EU4DR2015309035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742996
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-EU4DR2015309035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1479.7 lumens
Efficiency: N/A
Efficacy: 93.6 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): 15.8
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

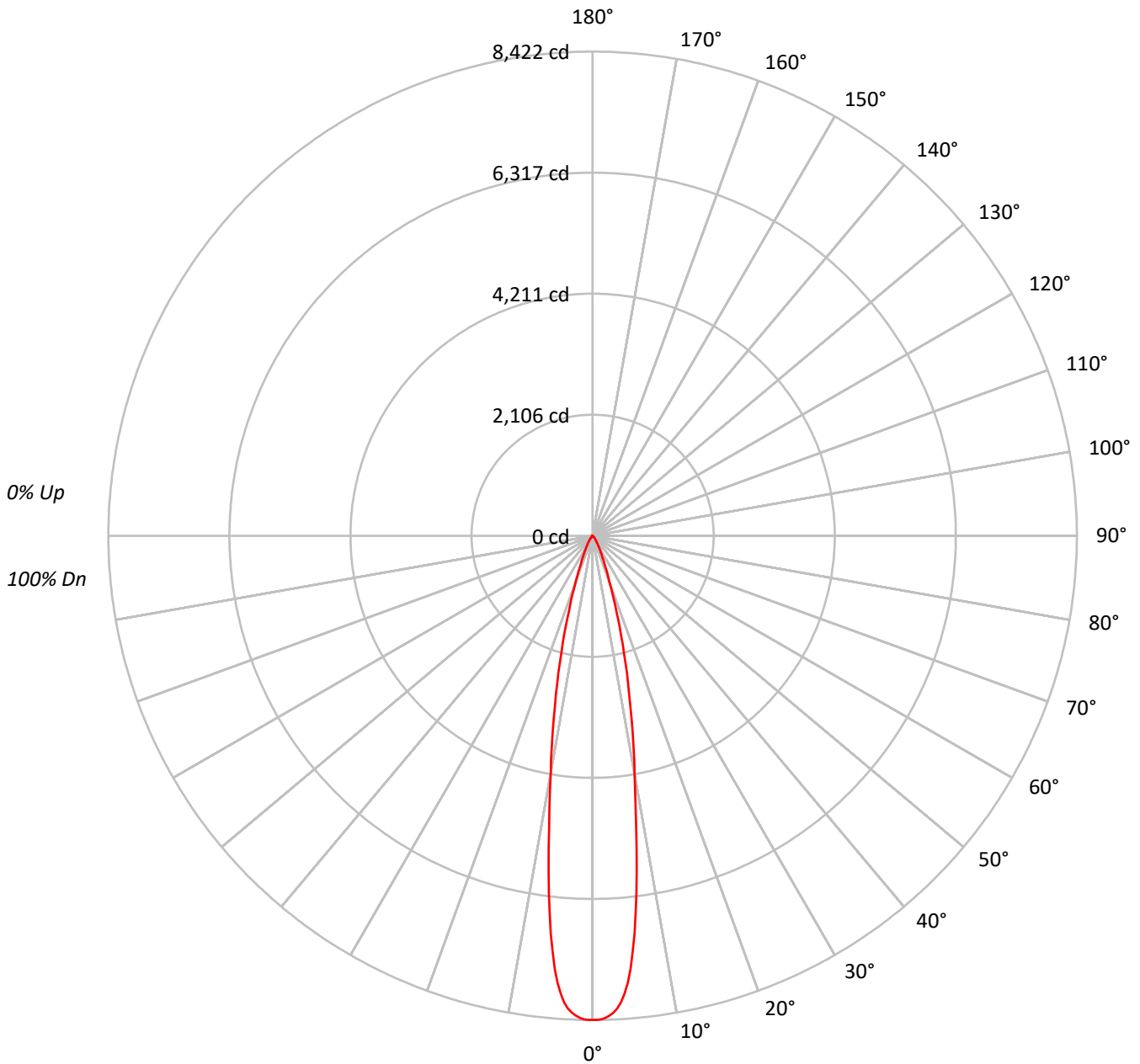


Downlight



TEST NUMBER: P742996
CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P742996

CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBS1B

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°	920216
5°	830208
10°	465963
15°	236852
20°	100285
25°	46293
30°	24501
35°	13205
40°	7060
45°	4172
50°	2414
55°	1276
60°	809
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4172 cd/sqm



TEST NUMBER: P742996

CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.7	40.5
10°-20°	590.5	39.9
20°-30°	192.9	13.0
30°-40°	65.7	4.4
40°-50°	22.1	1.5
50°-60°	6.6	0.4
60°-70°	2.2	0.1
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°	1383.0	93.5
0°-40°	1448.7	97.9
0°-60°	1477.4	99.8
0°-90°	1479.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8422	
5°	7570	600
15°	2094	590
25°	384	193
35°	99	66
45°	27	22
55°	7	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742996
CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	8422.2
0.5°	8422.2
1°	8411.7
1.5°	8390.7
2°	8352.5
2.5°	8301.5
3°	8229.5
3.5°	8129.0
4°	7979.8
4.5°	7798.3
5°	7569.5
5.5°	7268.8
6°	6960.5
6.5°	6607.3
7°	6261.6
7.5°	5856.6
8°	5495.1
8.5°	5131.3
9°	4795.4
9.5°	4487.1
10°	4199.9
12.5°	3015.7
15°	2093.9
17.5°	1368.0
20°	862.5
22.5°	558.7
25°	384.0
27.5°	270.0
30°	194.2
32.5°	139.5
35°	99.0
37.5°	69.0
40°	49.5
42.5°	36.0
45°	27.0
47.5°	21.0
50°	14.2
52.5°	9.0
55°	6.7
57.5°	5.2
60°	3.7
62.5°	3.0
65°	2.2



TEST NUMBER: P742996
CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBS1B

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



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

Scaled Data Report



67.5°		1.5
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)