

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: P742992

Luminaire Tested: LD4D15D010-EU4DR2015309035-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742992
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-EU4DR2015309035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1287.8 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 (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

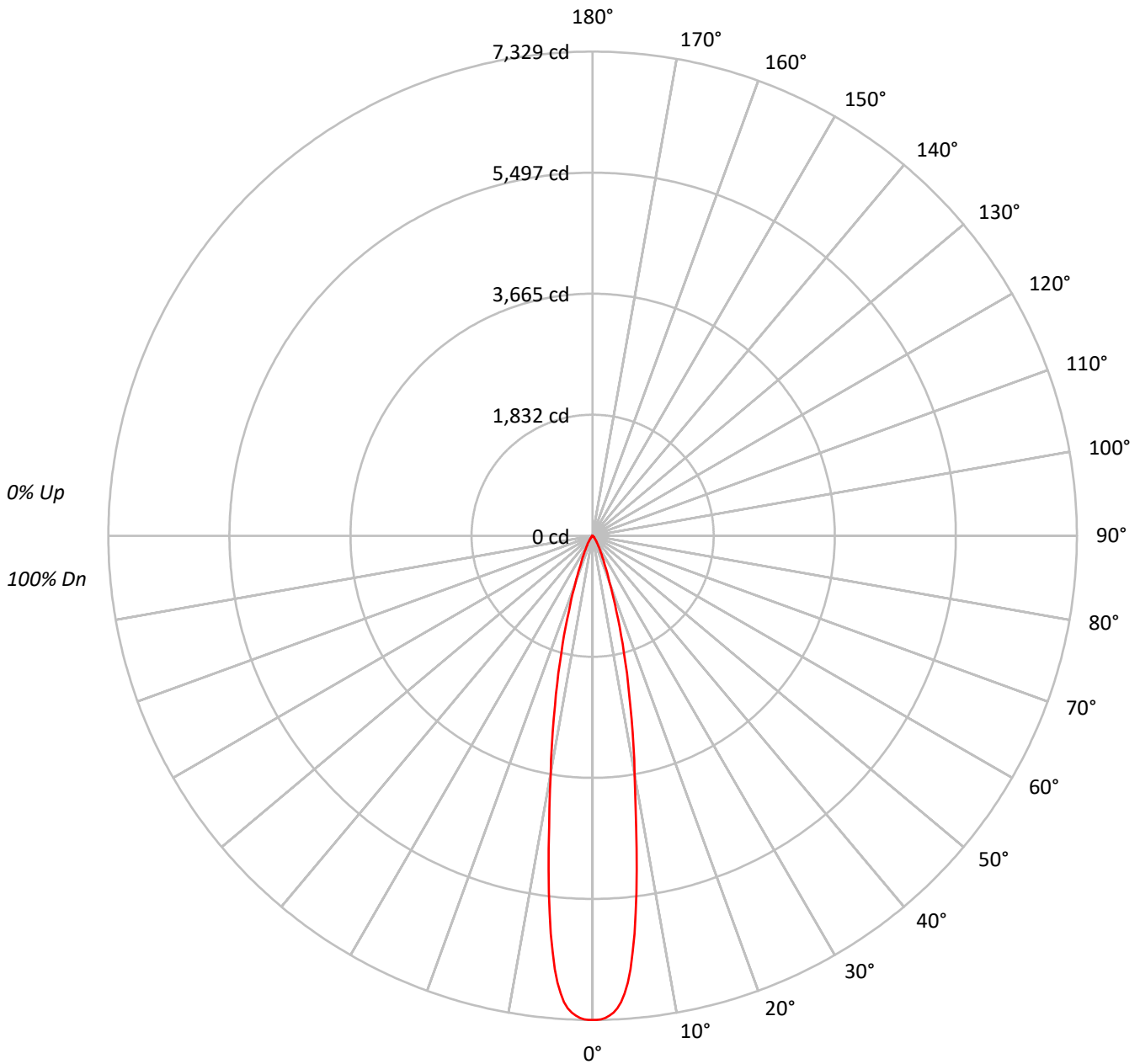


Downlight



TEST NUMBER: P742992
CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P742992

CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	800816
5°	722494
10°	405498
15°	206118
20°	87274
25°	40290
30°	21322
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: P742992

CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.8	40.5
10°-20°	513.9	39.9
20°-30°	167.9	13.0
30°-40°	57.2	4.4
40°-50°	19.2	1.5
50°-60°	5.8	0.5
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°	1203.6	93.5
0°-40°	1260.7	97.9
0°-60°	1285.7	99.8
0°-90°	1287.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1287.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7329	
5°	6587	522
15°	1822	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: P742992

CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	7329.4
0.5°	7329.4
1°	7320.3
1.5°	7302.0
2°	7268.7
2.5°	7224.4
3°	7161.7
3.5°	7074.2
4°	6944.4
4.5°	6786.4
5°	6587.4
5.5°	6325.6
6°	6057.4
6.5°	5750.0
7°	5449.1
7.5°	5096.7
8°	4782.1
8.5°	4465.5
9°	4173.1
9.5°	3904.9
10°	3654.9
12.5°	2624.4
15°	1822.2
17.5°	1190.5
20°	750.6
22.5°	486.2
25°	334.2
27.5°	235.0
30°	169.0
32.5°	121.4
35°	86.2
37.5°	60.0
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: P742992
CATALOG NUMBER: LD4D15D010-EU4DR2015309035-4LBDP1B

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°		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)