

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: P743026

Luminaire Tested: LD4D15D010-EU4DR2015309050-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743026  
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-EU4DR2015309050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1318.4 lumens  
Efficiency: N/A  
Efficacy: 83.4 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



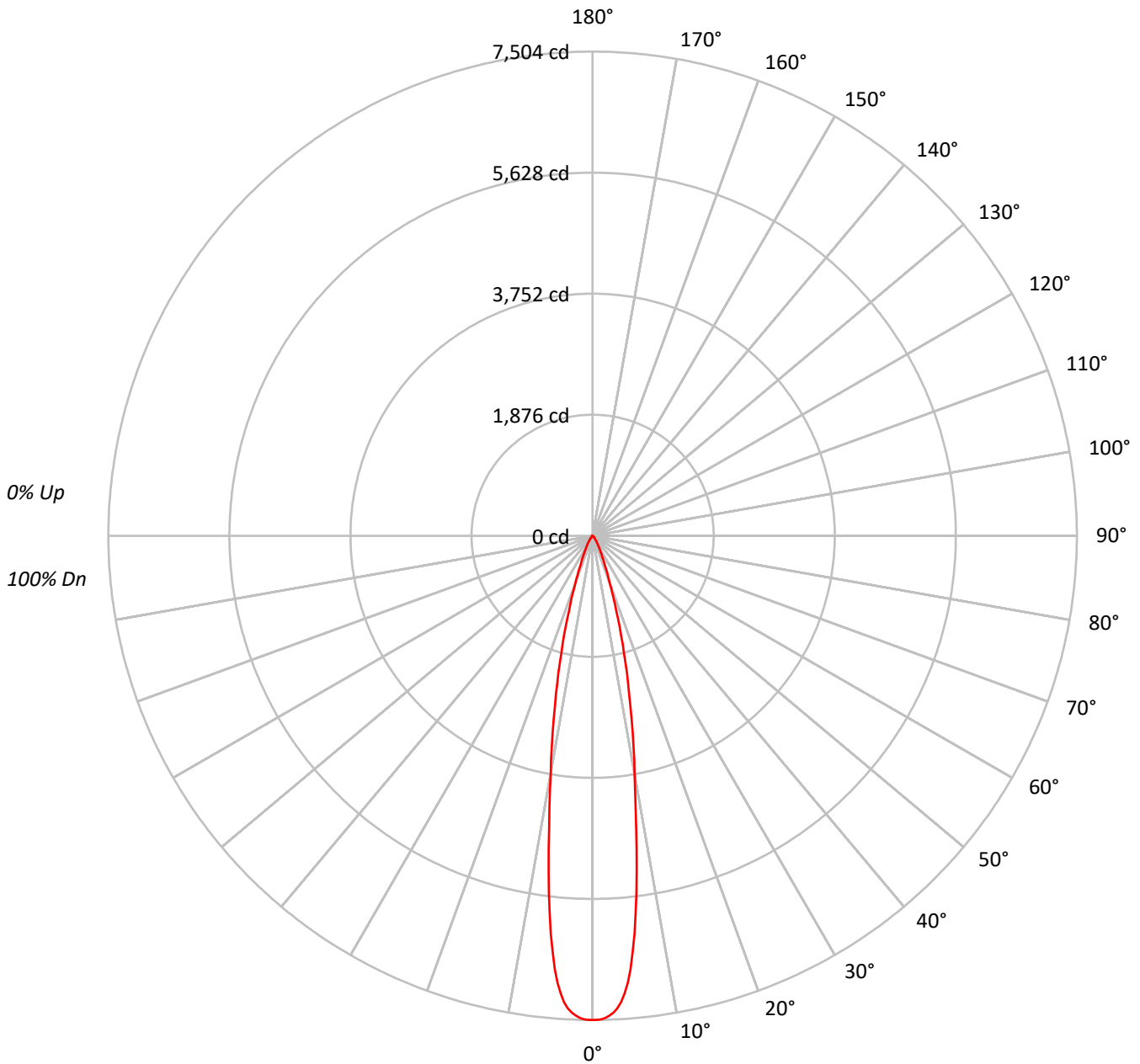
Downlight



TEST NUMBER: P743026

CATALOG NUMBER: LD4D15D010-EU4DR2015309050-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P743026

CATALOG NUMBER: LD4D15D010-EU4DR2015309050-4LBSQW1MW

**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	96	95	94															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	91																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	89	88	85																
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	86	85	83																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	83	81	79																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	81	79	77																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	79	77	75																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	77	75	73																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	75	73	71																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	73	71	69																

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	819893
5°	739691
10°	415161
15°	211027
20°	89344
25°	41242
30°	21839
35°	11764
40°	6290
45°	3724
50°	2159
55°	1143
60°	721
65°	517
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3724 cd/sqm



TEST NUMBER: P743026

CATALOG NUMBER: LD4D15D010-EU4DR2015309050-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	534.3	40.5
10°-20°	526.1	39.9
20°-30°	171.9	13.0
30°-40°	58.5	4.4
40°-50°	19.7	1.5
50°-60°	5.9	0.4
60°-70°	2.0	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°	1232.2	93.5
0°-40°	1290.7	97.9
0°-60°	1316.3	99.8
0°-90°	1318.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7504	
5°	6744	534
15°	1866	526
25°	342	172
35°	88	59
45°	24	20
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743026

CATALOG NUMBER: LD4D15D010-EU4DR2015309050-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7504.0
0.5°	7504.0
1°	7494.6
1.5°	7475.9
2°	7441.8
2.5°	7396.4
3°	7332.2
3.5°	7242.7
4°	7109.7
4.5°	6948.0
5°	6744.2
5.5°	6476.3
6°	6201.6
6.5°	5886.9
7°	5578.9
7.5°	5218.0
8°	4896.0
8.5°	4571.9
9°	4272.5
9.5°	3997.9
10°	3742.0
12.5°	2686.9
15°	1865.6
17.5°	1218.8
20°	768.4
22.5°	497.8
25°	342.1
27.5°	240.6
30°	173.1
32.5°	124.3
35°	88.2
37.5°	61.5
40°	44.1
42.5°	32.1
45°	24.1
47.5°	18.7
50°	12.7
52.5°	8.0
55°	6.0
57.5°	4.7
60°	3.3
62.5°	2.7
65°	2.0



TEST NUMBER: P743026

CATALOG NUMBER: LD4D15D010-EU4DR2015309050-4LBSQW1MW

**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)