

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: P743962

Luminaire Tested: LD4D20D010-EU4DR2015309027-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743962  
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: LD4D20D010-EU4DR2015309027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1635.4 lumens  
Efficiency: N/A  
Efficacy: 70.8 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): 23.1  
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



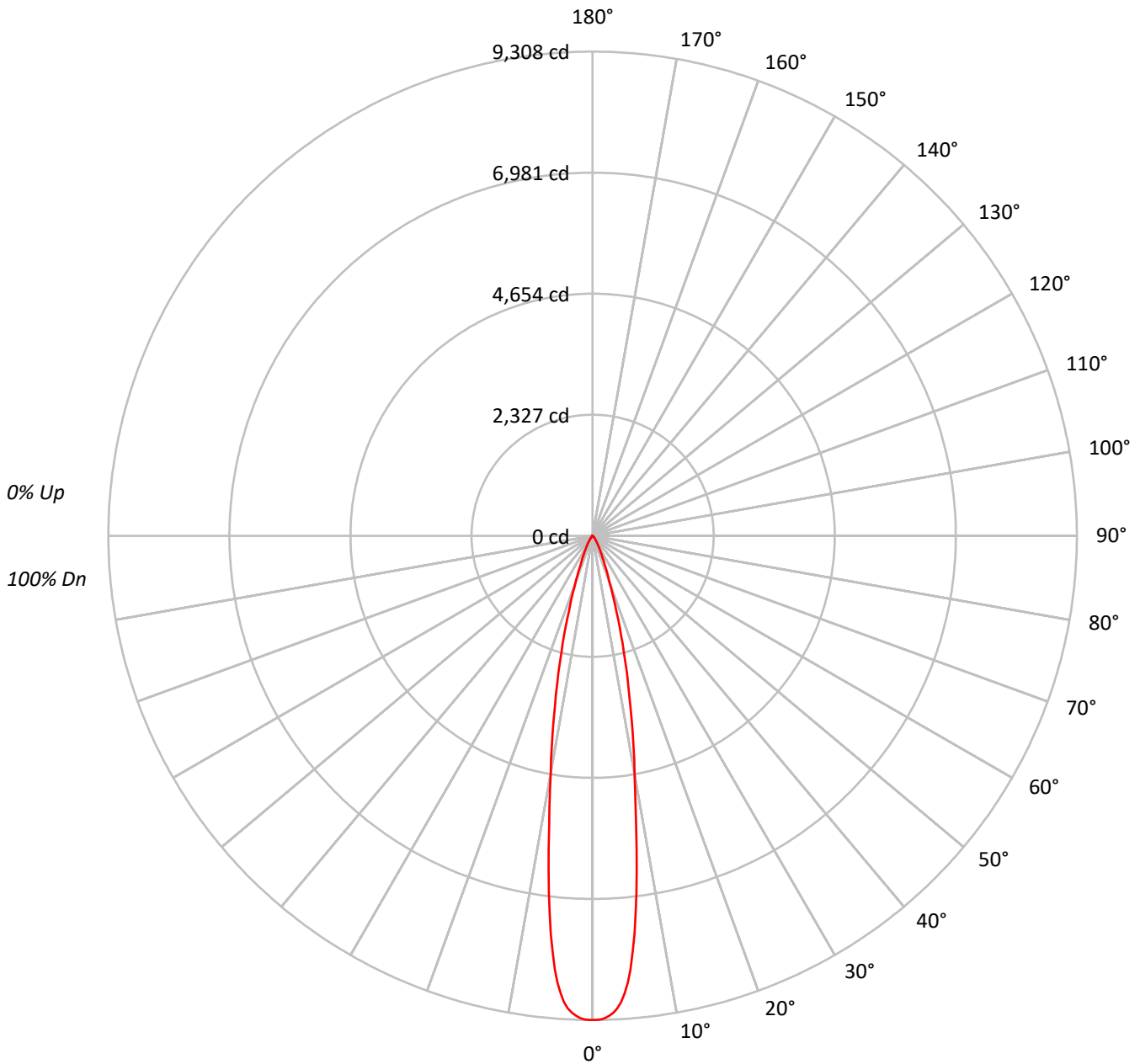
Downlight



TEST NUMBER: P743962

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P743962

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBSQW1MW

**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°	1017032
5°	917556
10°	514979
15°	261771
20°	110831
25°	51164
30°	27087
35°	14592
40°	7802
45°	4605
50°	2669
55°	1429
60°	896
65°	646
70°	256
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4605 cd/sqm



TEST NUMBER: P743962

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.7	40.5
10°-20°	652.6	39.9
20°-30°	213.2	13.0
30°-40°	72.6	4.4
40°-50°	24.4	1.5
50°-60°	7.3	0.4
60°-70°	2.4	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°	1528.5	93.5
0°-40°	1601.1	97.9
0°-60°	1632.8	99.8
0°-90°	1635.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9308	
5°	8366	663
15°	2314	653
25°	424	213
35°	109	73
45°	30	24
55°	8	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743962

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9308.3
0.5°	9308.3
1°	9296.7
1.5°	9273.5
2°	9231.3
2.5°	9174.9
3°	9095.3
3.5°	8984.2
4°	8819.3
4.5°	8618.7
5°	8365.9
5.5°	8033.5
6°	7692.8
6.5°	7302.4
7°	6920.3
7.5°	6472.7
8°	6073.2
8.5°	5671.2
9°	5299.9
9.5°	4959.2
10°	4641.7
12.5°	3332.9
15°	2314.2
17.5°	1511.9
20°	953.2
22.5°	617.5
25°	424.4
27.5°	298.4
30°	214.7
32.5°	154.2
35°	109.4
37.5°	76.3
40°	54.7
42.5°	39.8
45°	29.8
47.5°	23.2
50°	15.7
52.5°	9.9
55°	7.5
57.5°	5.8
60°	4.1
62.5°	3.3
65°	2.5



TEST NUMBER: P743962  
CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBSQW1MW

**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



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

Scaled Data Report



67.5°		1.7
70°		0.8

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

Scaled Data Report



(END OF REPORT)