

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: P745827

Luminaire Tested: LD4D30D010-EU4DR2015309027-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745827  
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: LD4D30D010-EU4DR2015309027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2886.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 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): 29  
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

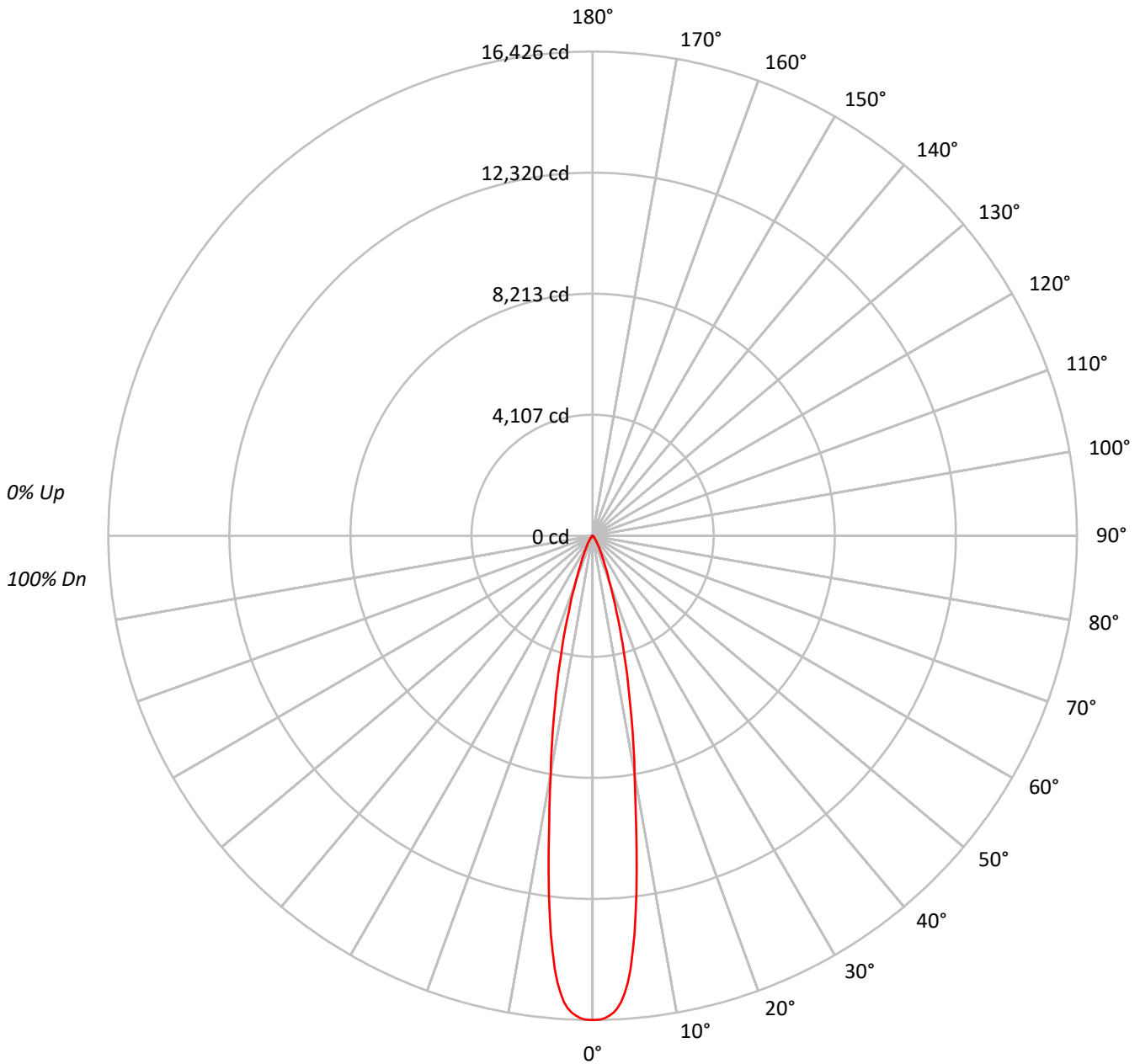


Downlight



TEST NUMBER: P745827  
CATALOG NUMBER: LD4D30D010-EU4DR2015309027-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P745827

CATALOG NUMBER: LD4D30D010-EU4DR2015309027-4LBDP1LI

**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	50	30	10
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°	1794728
5°	1619178
10°	908772
15°	461939
20°	195583
25°	90284
30°	47791
35°	25756
40°	13764
45°	8143
50°	4725
55°	2514
60°	1595
65°	1138
70°	479
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8143 cd/sqm



TEST NUMBER: P745827

CATALOG NUMBER: LD4D30D010-EU4DR2015309027-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1169.5	40.5
10°-20°	1151.6	39.9
20°-30°	376.2	13.0
30°-40°	128.1	4.4
40°-50°	43.1	1.5
50°-60°	13.0	0.4
60°-70°	4.3	0.2
70°-80°	0.2	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°	2697.3	93.5
0°-40°	2825.4	97.9
0°-60°	2881.5	99.8
0°-90°	2886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16426	
5°	14763	###
15°	4084	1152
25°	749	376
35°	193	128
45°	53	43
55°	13	13
65°	4	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P745827

CATALOG NUMBER: LD4D30D010-EU4DR2015309027-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16426.1
0.5°	16426.1
1°	16405.6
1.5°	16364.6
2°	16290.0
2.5°	16190.6
3°	16050.1
3.5°	15854.1
4°	15563.1
4.5°	15209.1
5°	14763.0
5.5°	14176.4
6°	13575.3
6.5°	12886.3
7°	12212.0
7.5°	11422.2
8°	10717.2
8.5°	10007.8
9°	9352.5
9.5°	8751.3
10°	8191.1
12.5°	5881.5
15°	4083.8
17.5°	2668.0
20°	1682.1
22.5°	1089.7
25°	748.9
27.5°	526.6
30°	378.8
32.5°	272.1
35°	193.1
37.5°	134.6
40°	96.5
42.5°	70.2
45°	52.7
47.5°	41.0
50°	27.8
52.5°	17.6
55°	13.2
57.5°	10.2
60°	7.3
62.5°	5.9
65°	4.4



TEST NUMBER: P745827  
CATALOG NUMBER: LD4D30D010-EU4DR2015309027-4LBDP1LI

**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°		2.9
70°		1.5

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

Scaled Data Report



(END OF REPORT)