

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: P743997

Luminaire Tested: LD4D20D010-EU4DR2015309040-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743997  
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-EU4DR2015309040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2231.4 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

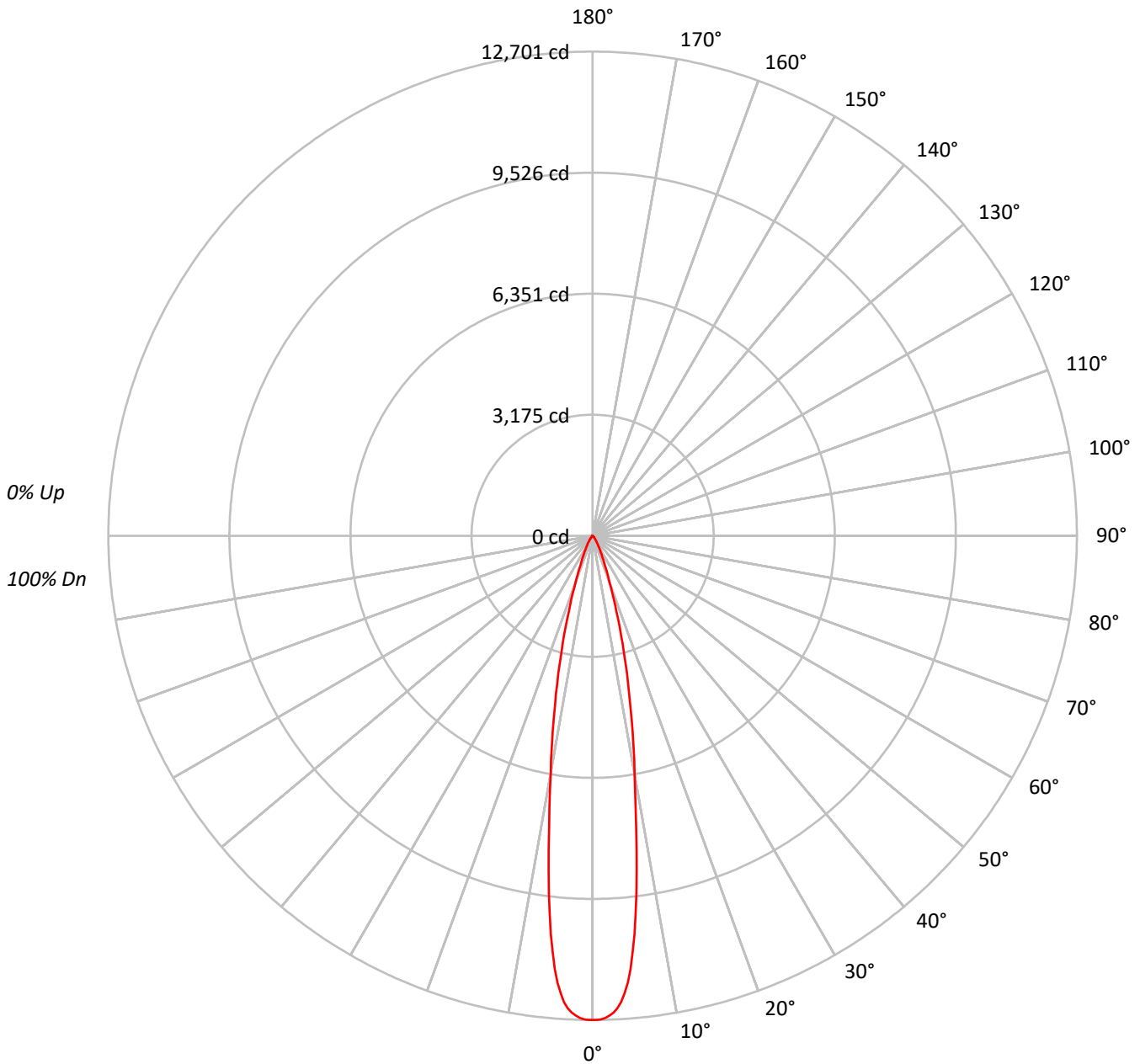


Downlight



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	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°	1387677
5°	1251943
10°	702656
15°	357172
20°	151224
25°	69802
30°	36953
35°	19914
40°	10640
45°	6289
50°	3655
55°	1943
60°	1246
65°	879
70°	351
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6289 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	904.3	40.5
10°-20°	890.4	39.9
20°-30°	290.9	13.0
30°-40°	99.0	4.4
40°-50°	33.3	1.5
50°-60°	10.0	0.4
60°-70°	3.3	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°	2085.5	93.5
0°-40°	2184.6	97.9
0°-60°	2227.9	99.8
0°-90°	2231.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12701	
5°	11415	904
15°	3158	890
25°	579	291
35°	149	99
45°	41	33
55°	10	10
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12700.6
0.5°	12700.6
1°	12684.7
1.5°	12653.1
2°	12595.4
2.5°	12518.5
3°	12409.9
3.5°	12258.4
4°	12033.3
4.5°	11759.6
5°	11414.7
5.5°	10961.2
6°	10496.3
6.5°	9963.7
7°	9442.3
7.5°	8831.6
8°	8286.5
8.5°	7737.9
9°	7231.3
9.5°	6766.5
10°	6333.3
12.5°	4547.5
15°	3157.6
17.5°	2062.9
20°	1300.6
22.5°	842.6
25°	579.0
27.5°	407.1
30°	292.9
32.5°	210.4
35°	149.3
37.5°	104.0
40°	74.6
42.5°	54.3
45°	40.7
47.5°	31.7
50°	21.5
52.5°	13.6
55°	10.2
57.5°	7.9
60°	5.7
62.5°	4.5
65°	3.4



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**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



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— 0°-180°

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67.5°		2.3
70°		1.1

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(END OF REPORT)