

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: P744005

Luminaire Tested: LD4D20D010-EU4DR2015309050-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744005  
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-EU4DR2015309050-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1795.7 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

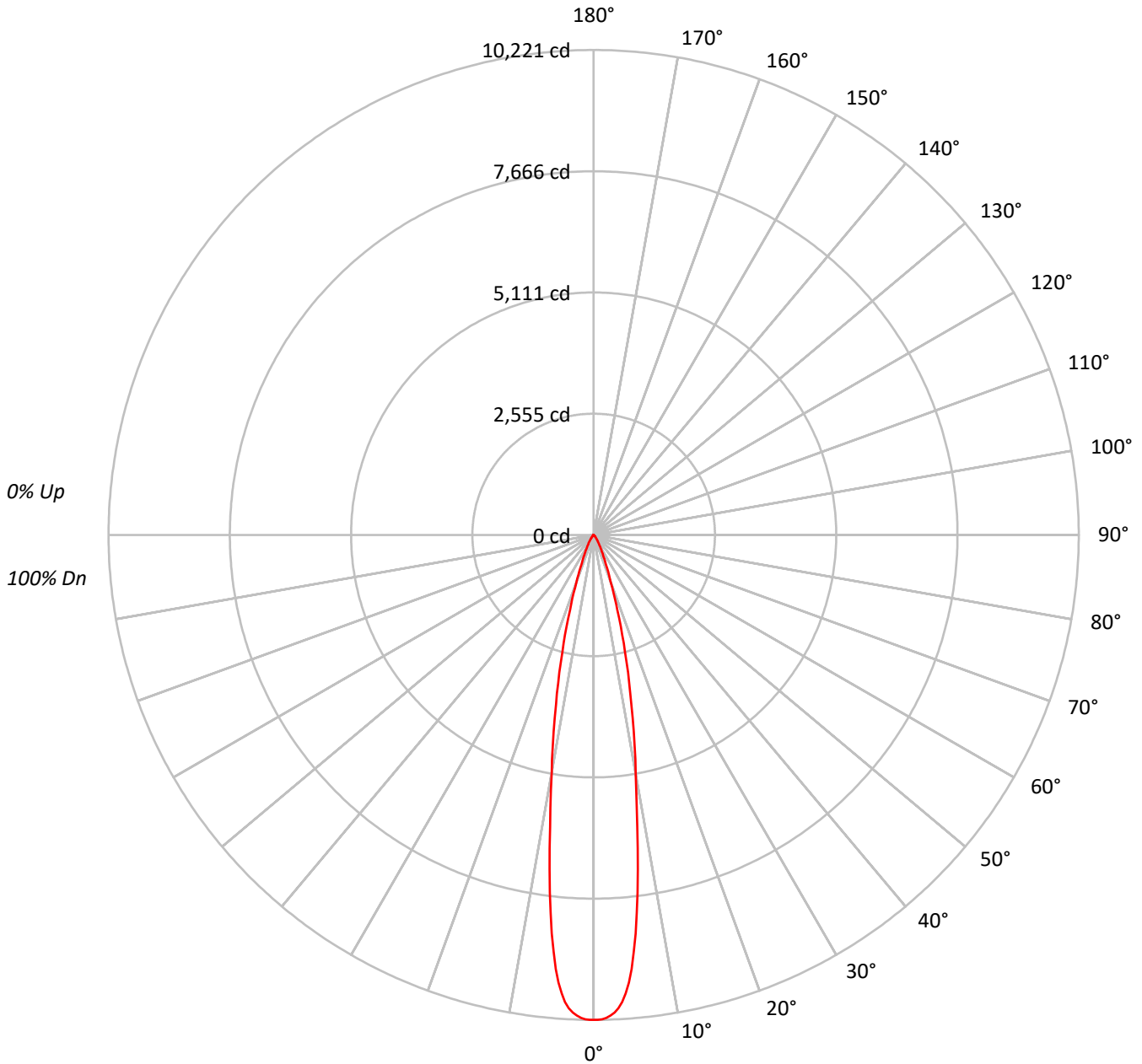


Downlight



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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°	1116732
5°	1007503
10°	565460
15°	287437
20°	121703
25°	56179
30°	29737
35°	16019
40°	8572
45°	5068
50°	2941
55°	1562
60°	1005
65°	698
70°	288
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5068 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.7	40.5
10°-20°	716.6	39.9
20°-30°	234.1	13.0
30°-40°	79.7	4.4
40°-50°	26.8	1.5
50°-60°	8.1	0.4
60°-70°	2.7	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°	1678.3	93.5
0°-40°	1758.0	97.9
0°-60°	1792.9	99.8
0°-90°	1795.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10221	
5°	9186	728
15°	2541	717
25°	466	234
35°	120	80
45°	33	27
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10220.8
0.5°	10220.8
1°	10208.0
1.5°	10182.5
2°	10136.1
2.5°	10074.2
3°	9986.9
3.5°	9864.9
4°	9683.8
4.5°	9463.5
5°	9186.0
5.5°	8821.0
6°	8446.9
6.5°	8018.3
7°	7598.7
7.5°	7107.2
8°	6668.5
8.5°	6227.1
9°	5819.4
9.5°	5445.3
10°	5096.7
12.5°	3659.6
15°	2541.1
17.5°	1660.1
20°	1046.7
22.5°	678.0
25°	466.0
27.5°	327.6
30°	235.7
32.5°	169.3
35°	120.1
37.5°	83.7
40°	60.1
42.5°	43.7
45°	32.8
47.5°	25.5
50°	17.3
52.5°	10.9
55°	8.2
57.5°	6.4
60°	4.6
62.5°	3.6
65°	2.7



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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°		1.8
70°		0.9

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(END OF REPORT)