

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: P744009

Luminaire Tested: LD4D20D010-EU4DR2015309050-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744009  
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-EU4DR2015309050-4LBS1B  
Description: 4 INCH ROUND SHALLOW 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: 2063.4 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

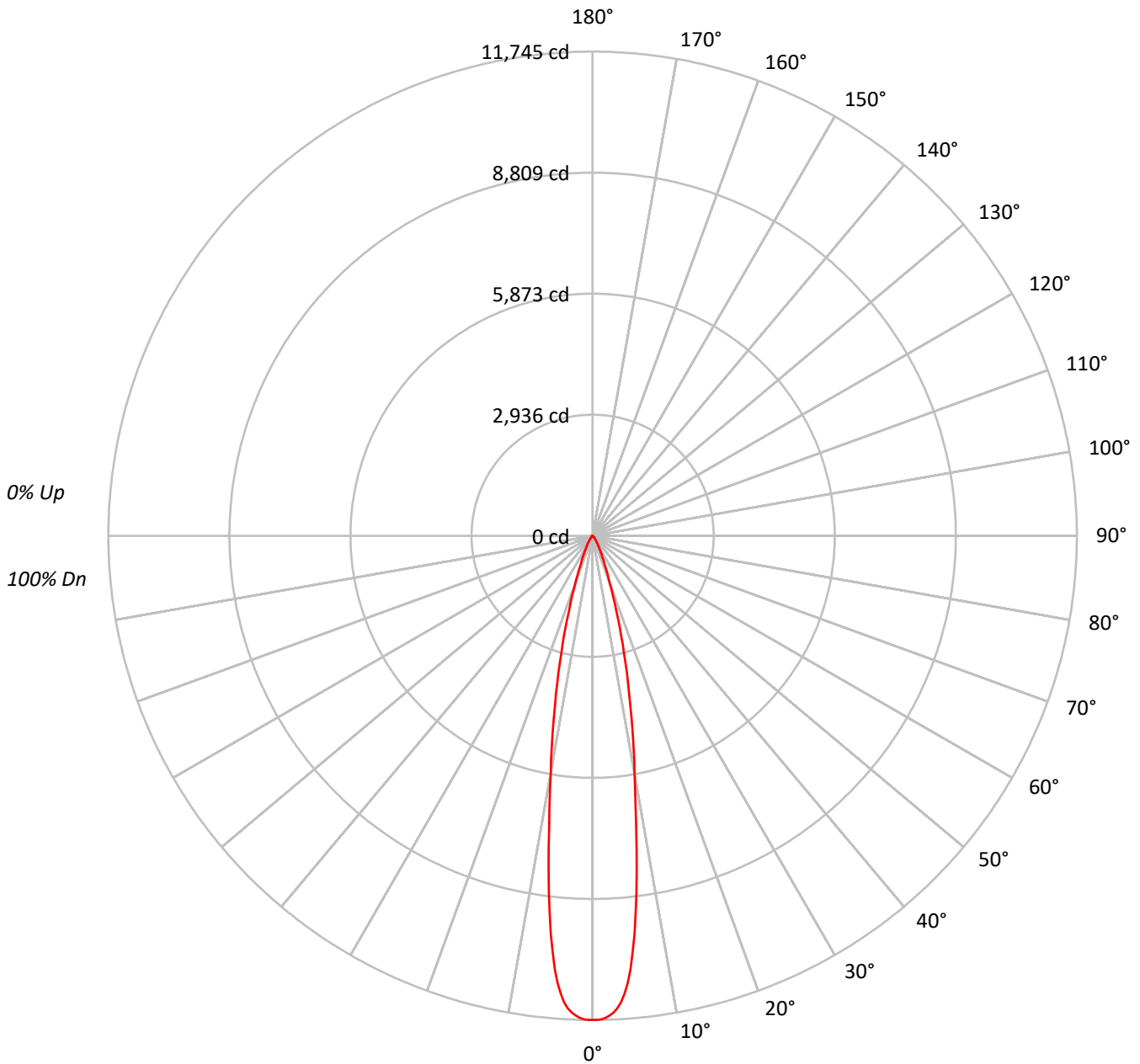


Downlight



TEST NUMBER: P744009  
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### Luminous Intensity Polar Plot





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**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	94	93	92	91															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	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	81															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	83	81	79	77															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	81	79	77	75															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	79	77	75	73															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	77	75	73	71															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	75	73	71	69															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	73	71	69	67															

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

	0°
0°	1283235
5°	1157718
10°	649768
15°	330296
20°	139841
25°	64558
30°	34178
35°	18407
40°	9841
45°	5810
50°	3383
55°	1791
60°	1136
65°	801
70°	319
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5810 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.2	40.5
10°-20°	823.4	39.9
20°-30°	269.0	13.0
30°-40°	91.6	4.4
40°-50°	30.8	1.5
50°-60°	9.3	0.4
60°-70°	3.1	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°	1928.6	93.5
0°-40°	2020.2	97.9
0°-60°	2060.2	99.8
0°-90°	2063.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2063.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11745	
5°	10556	836
15°	2920	823
25°	536	269
35°	138	92
45°	38	31
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11744.7
0.5°	11744.7
1°	11730.0
1.5°	11700.7
2°	11647.4
2.5°	11576.3
3°	11475.9
3.5°	11335.7
4°	11127.6
4.5°	10874.5
5°	10555.6
5.5°	10136.2
6°	9706.3
6.5°	9213.8
7°	8731.6
7.5°	8166.9
8°	7662.8
8.5°	7155.6
9°	6687.0
9.5°	6257.2
10°	5856.6
12.5°	4205.3
15°	2920.0
17.5°	1907.6
20°	1202.7
22.5°	779.1
25°	535.5
27.5°	376.5
30°	270.9
32.5°	194.5
35°	138.0
37.5°	96.2
40°	69.0
42.5°	50.2
45°	37.6
47.5°	29.3
50°	19.9
52.5°	12.5
55°	9.4
57.5°	7.3
60°	5.2
62.5°	4.2
65°	3.1



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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°		2.1
70°		1.0

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Scaled Data Report



(END OF REPORT)