

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: P745816

Luminaire Tested: LD4D30D010-EU4DR2015309024-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745816  
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-EU4DR2015309024-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2438.9 lumens  
Efficiency: N/A  
Efficacy: 84.1 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 (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

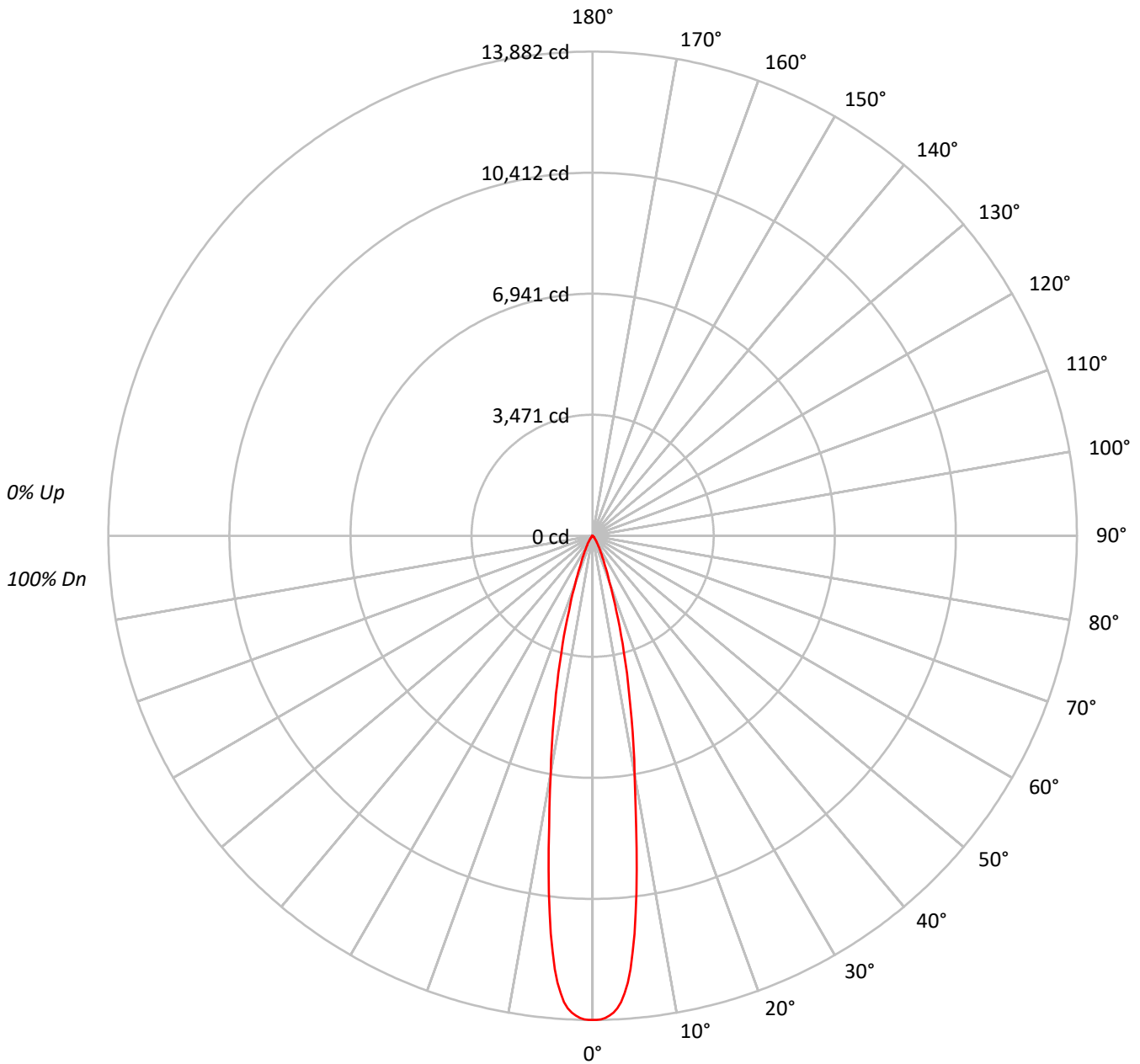


Downlight



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	93	92	91																
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	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																
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	83	81	79																
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	81	79	77																
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	79	77	75																
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	77	75	73																
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	75	73	71																
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	73	71	69																

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

	0°
0°	1516703
5°	1368344
10°	767992
15°	390383
20°	165282
25°	76300
30°	40398
35°	21768
40°	11639
45°	6876
50°	3995
55°	2114
60°	1355
65°	957
70°	383
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6876 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	988.3	40.5
10°-20°	973.2	39.9
20°-30°	317.9	13.0
30°-40°	108.2	4.4
40°-50°	36.4	1.5
50°-60°	11.0	0.4
60°-70°	3.6	0.1
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°	2279.5	93.5
0°-40°	2387.7	97.9
0°-60°	2435.1	99.8
0°-90°	2438.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13882	
5°	12476	988
15°	3451	973
25°	633	318
35°	163	108
45°	44	36
55°	11	11
65°	4	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13881.5
0.5°	13881.5
1°	13864.2
1.5°	13829.6
2°	13766.5
2.5°	13682.5
3°	13563.8
3.5°	13398.2
4°	13152.2
4.5°	12853.1
5°	12476.0
5.5°	11980.4
6°	11472.3
6.5°	10890.1
7°	10320.3
7.5°	9652.8
8°	9057.0
8.5°	8457.5
9°	7903.7
9.5°	7395.6
10°	6922.2
12.5°	4970.4
15°	3451.2
17.5°	2254.7
20°	1421.5
22.5°	920.9
25°	632.9
27.5°	445.0
30°	320.2
32.5°	229.9
35°	163.2
37.5°	113.7
40°	81.6
42.5°	59.3
45°	44.5
47.5°	34.6
50°	23.5
52.5°	14.8
55°	11.1
57.5°	8.7
60°	6.2
62.5°	4.9
65°	3.7



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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°		2.5
70°		1.2

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(END OF REPORT)