

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



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: P744541

Luminaire Tested: LD4D20D010-EU4DR5520359040-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR5520359040-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 55° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1872.6 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87  
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



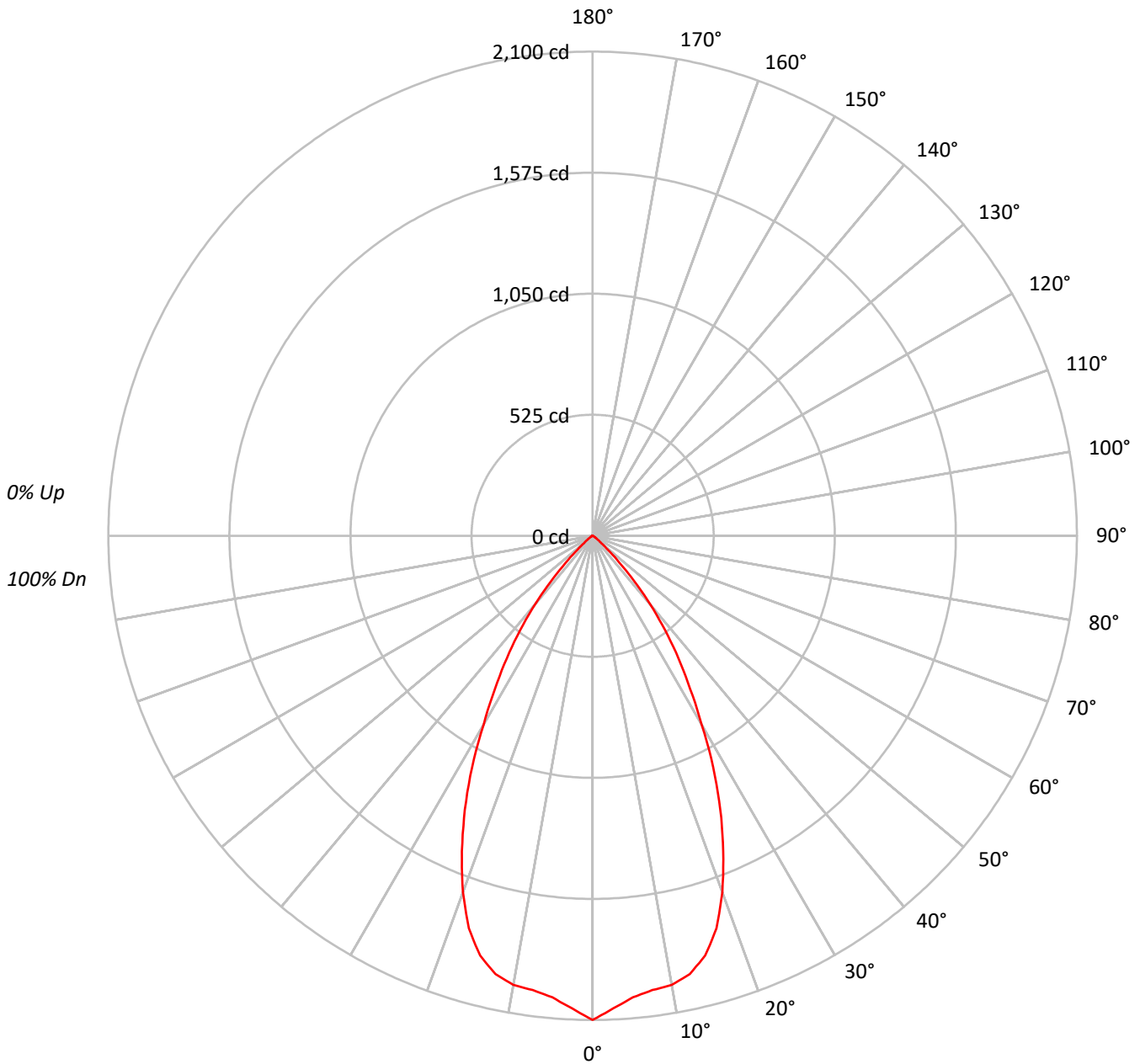
Downlight



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61		
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54		
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50		

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

	0°
0°	229437
5°	220321
10°	219485
15°	213188
20°	191153
25°	157976
30°	119325
35°	86525
40°	55369
45°	25295
50°	8261
55°	3562
60°	1530
65°	207
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25295 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.1	10.2
10°-20°	521.7	27.9
20°-30°	594.5	31.7
30°-40°	404.7	21.6
40°-50°	139.5	7.4
50°-60°	19.3	1.0
60°-70°	1.9	0.1
70°-80°	0.0	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°	1307.3	69.8
0°-40°	1712.0	91.4
0°-60°	1870.8	99.9
0°-90°	1872.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1872.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2100	
5°	2009	191
15°	1885	522
25°	1310	594
35°	649	405
45°	164	139
55°	19	19
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2099.9
2.5°	2051.7
5°	2008.8
7.5°	1987.7
10°	1978.3
12.5°	1947.1
15°	1884.7
17.5°	1785.5
20°	1644.0
22.5°	1480.6
25°	1310.4
27.5°	1133.2
30°	945.8
32.5°	787.1
35°	648.7
37.5°	517.0
40°	388.2
42.5°	269.1
45°	163.7
47.5°	88.2
50°	48.6
52.5°	28.9
55°	18.7
57.5°	12.0
60°	7.0
62.5°	3.1
65°	0.8
67.5°	0.3
70°	0.0
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

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)