

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: P744441

Luminaire Tested: LD4D20D010-EU4DR5020359030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR5020359030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1912.8 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
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

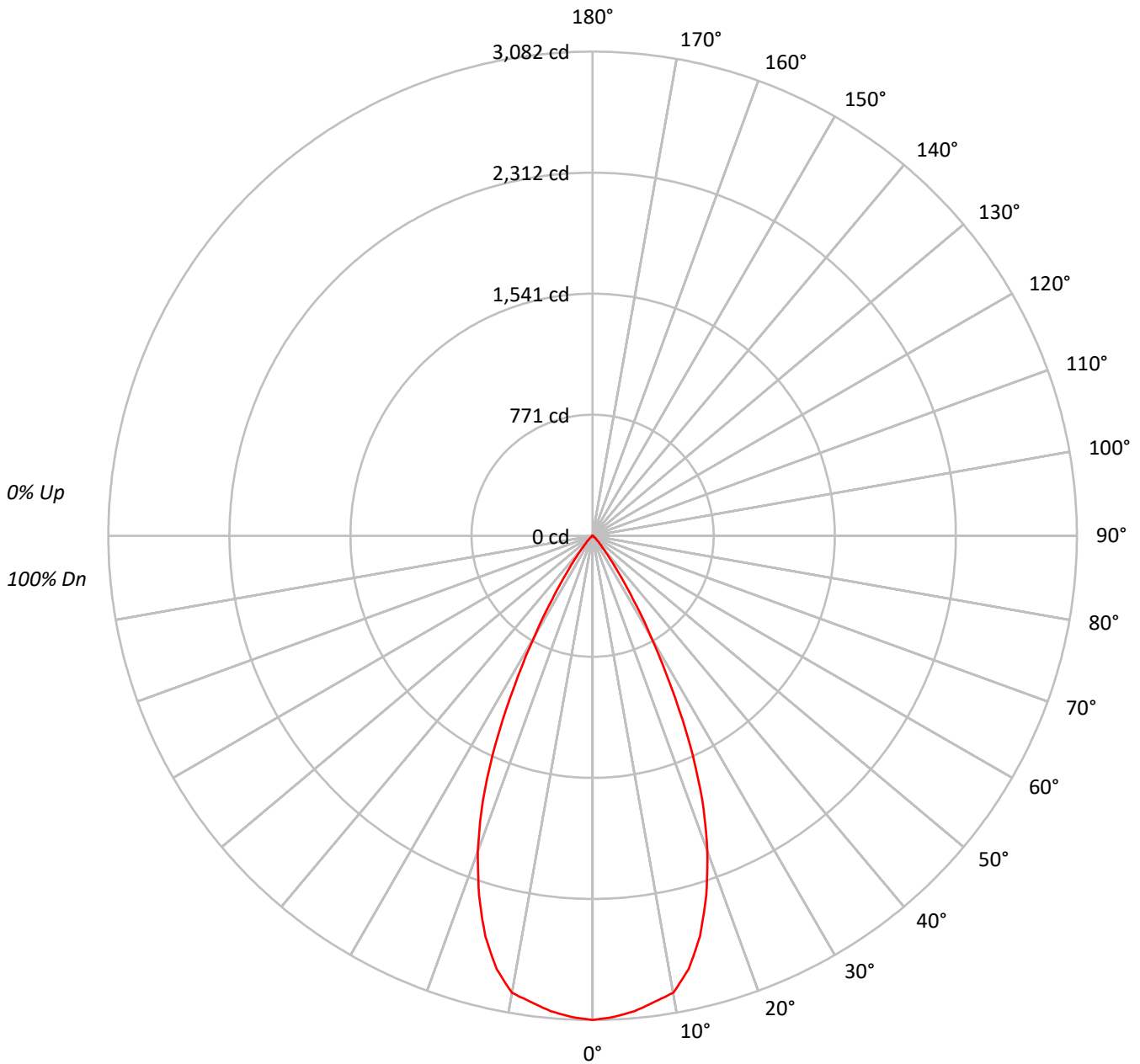


Downlight



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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	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	100	100	100	100		
	1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95	95	95	95	95	95		
	2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90	90	90		
	3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	85	85	85	85	85		
	4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	80	80	80	80		
	5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76	76	76	76	76	76		
	6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72	72	72	72	72	72		
	7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	69	69	69		
	8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65	65	65	65	65	65		
	9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62	62	62	62	62	62		
	10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59	59	59	59	59	59		

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

	0°
0°	336742
5°	333202
10°	327713
15°	298420
20°	248312
25°	176265
30°	93298
35°	38014
40°	14120
45°	6459
50°	2652
55°	1391
60°	677
65°	207
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6459 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.2	15.0
10°-20°	725.7	37.9
20°-30°	651.9	34.1
30°-40°	204.1	10.7
40°-50°	35.7	1.9
50°-60°	7.1	0.4
60°-70°	1.1	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°	1664.7	87.0
0°-40°	1868.8	97.7
0°-60°	1911.7	99.9
0°-90°	1912.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3082	
5°	3038	287
15°	2638	726
25°	1462	652
35°	285	204
45°	42	36
55°	7	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3082.0
2.5°	3066.6
5°	3038.0
7.5°	2994.4
10°	2953.8
12.5°	2823.9
15°	2638.2
17.5°	2402.2
20°	2135.6
22.5°	1827.2
25°	1462.1
27.5°	1075.0
30°	739.5
32.5°	481.5
35°	285.0
37.5°	163.7
40°	99.0
42.5°	64.5
45°	41.8
47.5°	25.4
50°	15.6
52.5°	10.7
55°	7.3
57.5°	4.9
60°	3.1
62.5°	1.8
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

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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(END OF REPORT)