

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: P746040

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D30D010-EU4DR3020359050-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2805.5 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

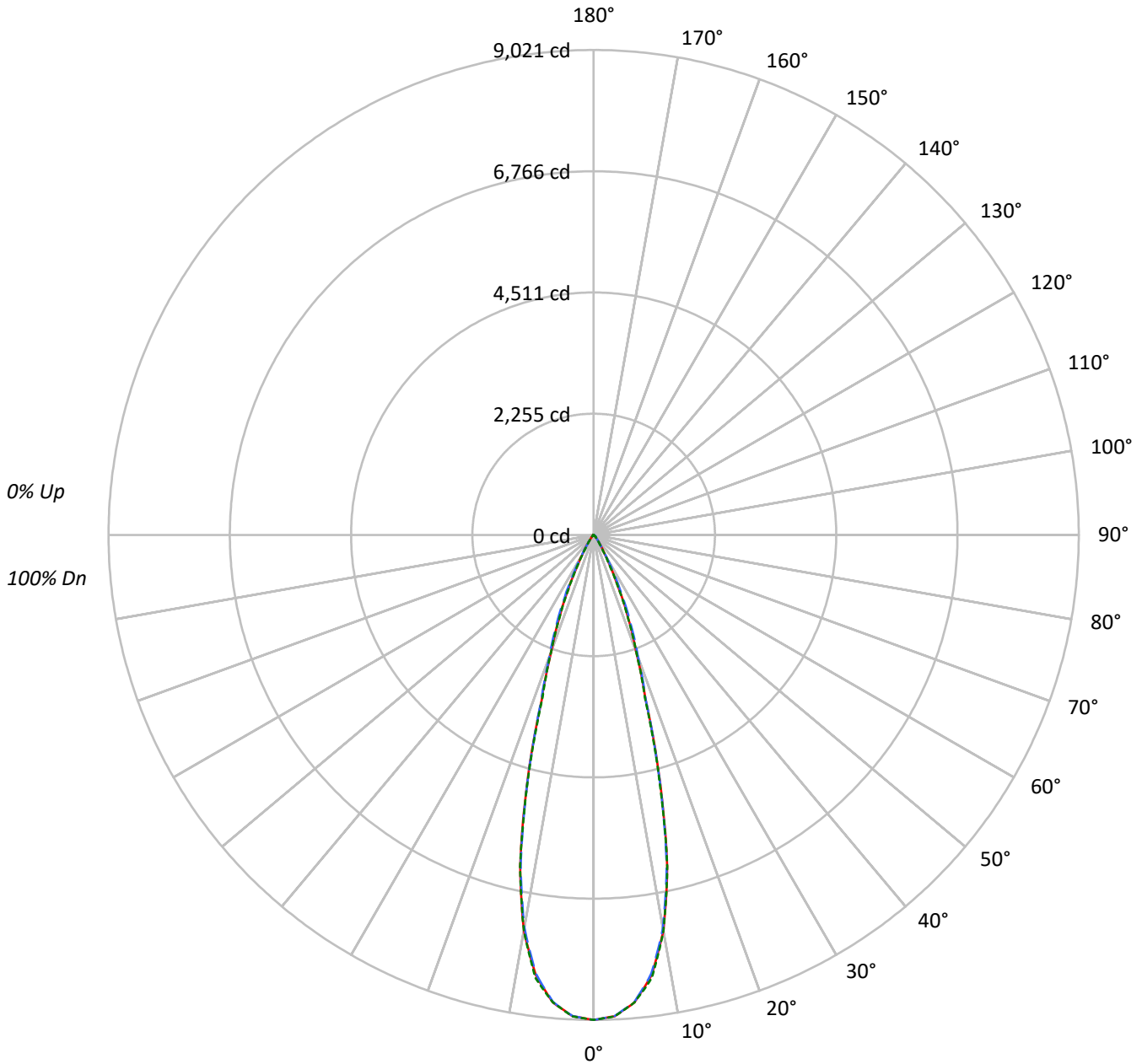


Downlight



TEST NUMBER: P746040  
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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	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	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

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

	0°	45°	90°
0°	690490	690490	690490
5°	670669	669885	670700
10°	580903	576799	580763
15°	379006	376970	375076
20°	188464	195535	188212
25°	94937	107048	92986
30°	38014	41417	33118
35°	17633	16885	14156
40°	7614	8453	7164
45°	5369	6657	5412
50°	1846	4847	1953
55°	1068	2015	1121
60°	750	873	750
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6657 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.2	28.3
10°-20°	1277.5	45.5
20°-30°	552.1	19.7
30°-40°	125.8	4.5
40°-50°	43.2	1.5
50°-60°	10.6	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2622.8	93.5
0°-40°	2748.7	98.0
0°-60°	2802.4	99.9
0°-90°	2805.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9021	9021	9021	9021	9021	
5°	8729	8720	8718	8736	8729	794
15°	4783	4725	4757	4742	4733	1281
25°	1124	1167	1268	1137	1101	538
35°	189	193	181	179	152	128
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9020.9	9020.9	9020.9	9020.9	9020.9
2.5°	8961.1	8954.9	8958.4	8962.8	8964.6
5°	8728.6	8720.1	8718.4	8736.5	8729.0
7.5°	8259.5	8247.6	8229.4	8270.6	8309.1
10°	7473.9	7460.6	7421.1	7440.6	7472.1
12.5°	6313.9	6270.9	6270.0	6332.0	6323.7
15°	4782.8	4725.2	4757.1	4741.6	4733.2
17.5°	3216.3	3194.1	3236.7	3223.8	3168.5
20°	2313.7	2319.4	2400.5	2359.8	2310.6
22.5°	1688.3	1709.1	1805.3	1700.3	1661.7
25°	1124.1	1166.6	1267.5	1136.9	1101.0
27.5°	691.4	710.9	813.1	682.5	663.0
30°	430.1	420.3	468.6	402.2	374.7
32.5°	282.1	269.7	285.2	256.0	233.8
35°	188.7	192.7	180.7	179.4	151.5
37.5°	117.8	135.5	119.6	127.5	97.5
40°	76.2	98.3	84.6	93.4	71.7
42.5°	62.5	75.7	69.6	74.0	63.8
45°	49.6	61.5	61.5	61.5	50.0
47.5°	27.4	41.2	52.7	42.1	29.2
50°	15.5	20.8	40.7	21.7	16.4
52.5°	10.7	12.0	27.9	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.6	8.0	6.6	6.2
60°	4.9	4.9	5.7	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)