

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: P744155

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744155  
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: LD4D20D010-EU4DR3020359040-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1954.6 lumens  
Efficiency: N/A  
Efficacy: 84.6 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): 23.1  
Input Voltage (V): NR  
Input Current (Ain): 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

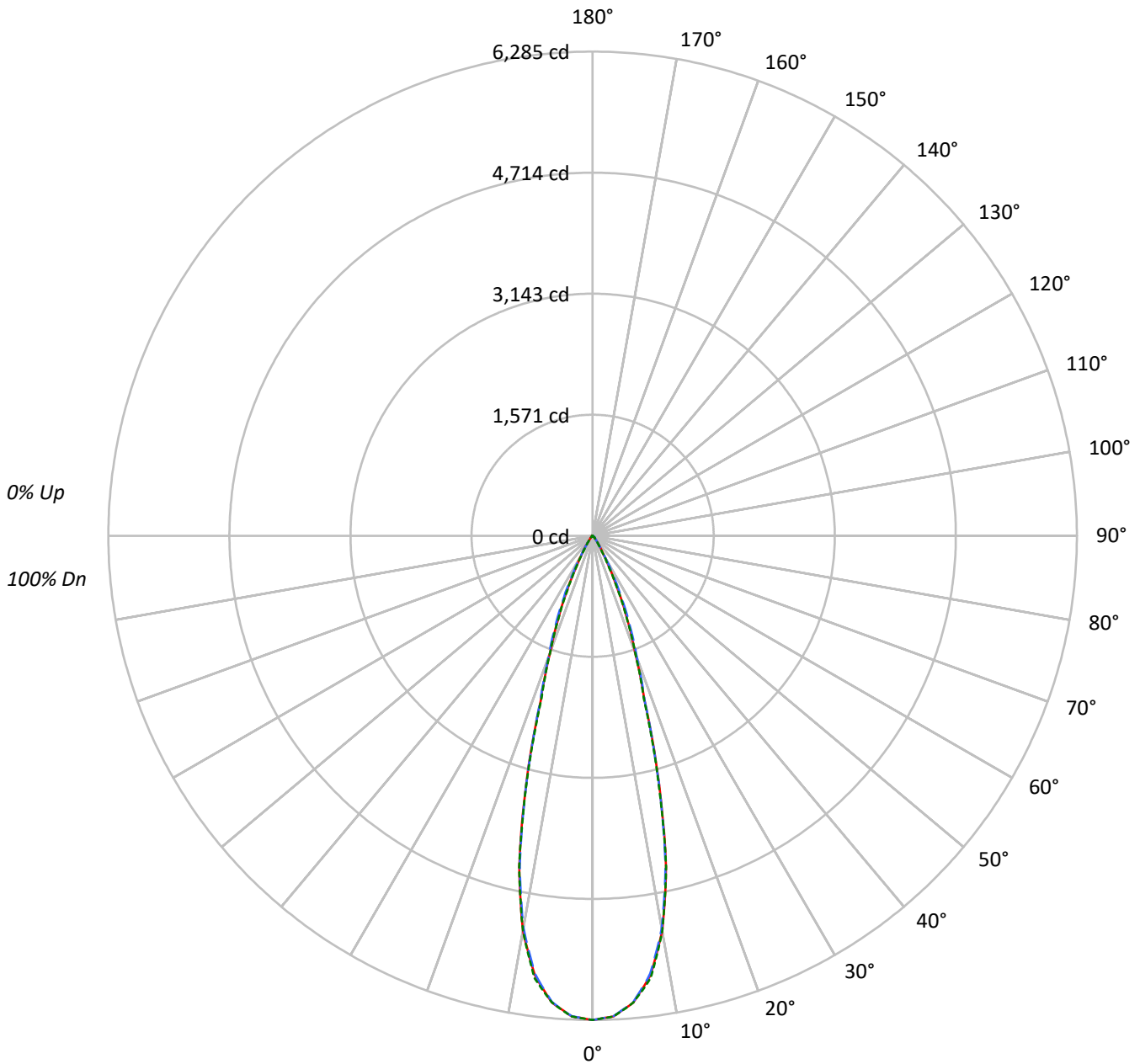


Downlight



TEST NUMBER: P744155  
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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	481083	481083	481083
5°	467269	466724	467300
10°	404725	401873	404632
15°	264063	262645	261321
20°	131307	136235	131128
25°	66146	74583	64786
30°	26489	28858	23068
35°	12278	11764	9858
40°	5306	5895	4996
45°	3735	4644	3778
50°	1286	3382	1358
55°	747	1401	774
60°	520	612	520
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4644 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.7	28.3
10°-20°	890.1	45.5
20°-30°	384.6	19.7
30°-40°	87.7	4.5
40°-50°	30.1	1.5
50°-60°	7.3	0.4
60°-70°	1.9	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°	1827.4	93.5
0°-40°	1915.1	98.0
0°-60°	1952.5	99.9
0°-90°	1954.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6285	6285	6285	6285	6285	
5°	6081	6076	6074	6087	6082	553
15°	3332	3292	3314	3304	3298	892
25°	783	813	883	792	767	375
35°	131	134	126	125	106	89
45°	34	43	43	43	35	25
55°	6	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	6243.4	6239.1	6241.6	6244.6	6245.9
5°	6081.4	6075.6	6074.3	6087.0	6081.8
7.5°	5754.7	5746.3	5733.7	5762.3	5789.2
10°	5207.2	5198.0	5170.5	5184.1	5206.0
12.5°	4399.1	4369.2	4368.5	4411.7	4405.9
15°	3332.3	3292.2	3314.4	3303.6	3297.7
17.5°	2240.9	2225.5	2255.1	2246.1	2207.6
20°	1612.0	1616.0	1672.5	1644.1	1609.8
22.5°	1176.3	1190.8	1257.7	1184.6	1157.8
25°	783.2	812.8	883.1	792.1	767.1
27.5°	481.7	495.3	566.5	475.5	461.9
30°	299.7	292.8	326.5	280.2	261.0
32.5°	196.6	187.9	198.7	178.4	162.9
35°	131.4	134.2	125.9	125.0	105.5
37.5°	82.1	94.4	83.3	88.9	67.9
40°	53.1	68.5	59.0	65.1	50.0
42.5°	43.5	52.8	48.5	51.5	44.5
45°	34.5	42.9	42.9	42.9	34.9
47.5°	19.1	28.7	36.7	29.3	20.3
50°	10.8	14.5	28.4	15.1	11.4
52.5°	7.4	8.3	19.4	8.7	7.7
55°	5.6	5.8	10.5	6.2	5.8
57.5°	4.3	4.6	5.6	4.6	4.3
60°	3.4	3.4	4.0	3.7	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.3	1.3	1.3	1.3
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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