

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: P753801

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753801  
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: LD4D80BD010-EU4DR3070959030-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7436.2 lumens  
Efficiency: N/A  
Efficacy: 94.2 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): 78.9  
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

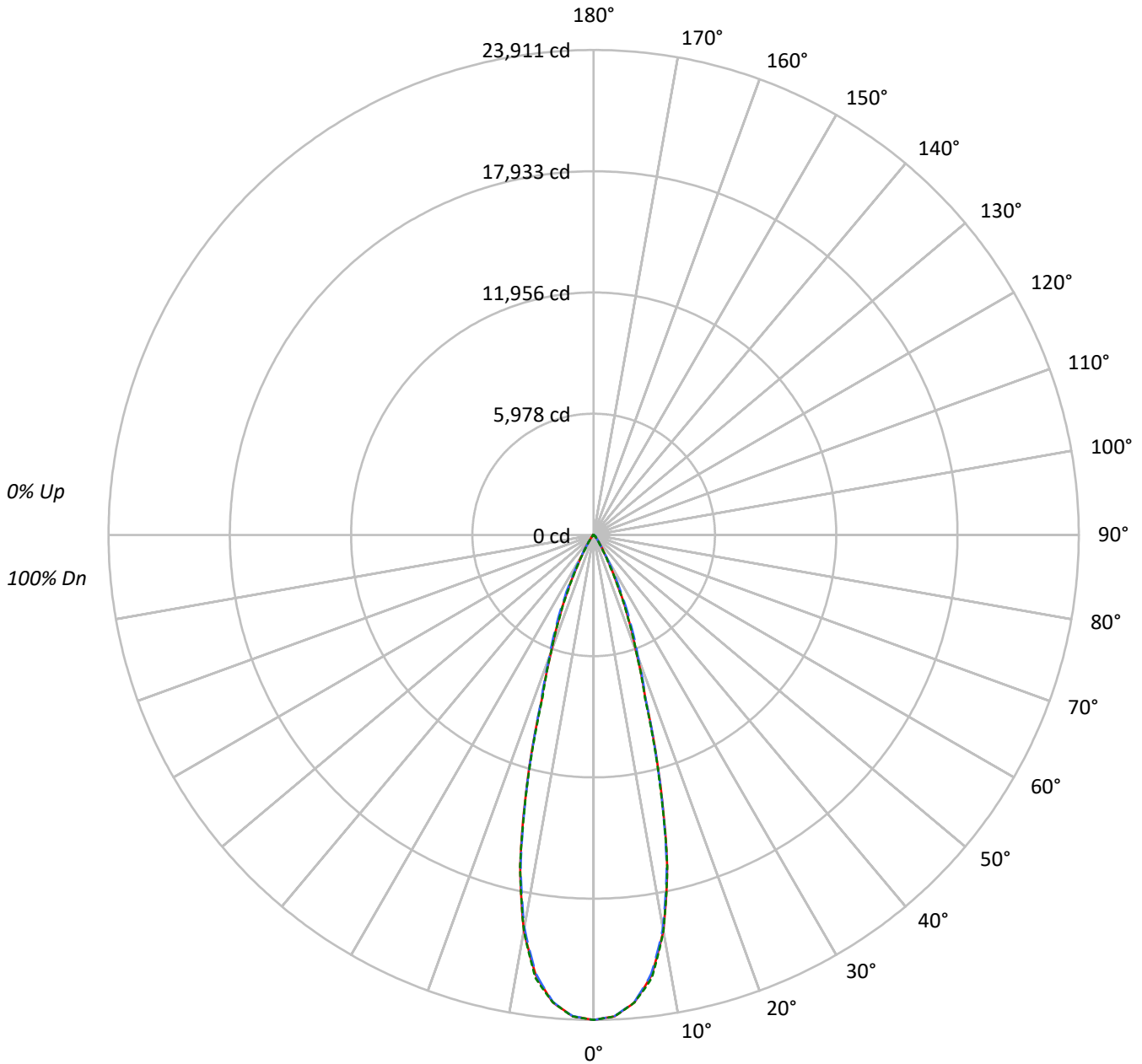


Downlight

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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																			
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°	1830229	1830229	1830229
5°	1777688	1775613	1777780
10°	1539748	1528889	1539382
15°	1004610	999214	994190
20°	499544	518287	498876
25°	251638	283756	246477
30°	100750	109774	87784
35°	46730	44759	37517
40°	20174	22402	19005
45°	14235	17666	14365
50°	4894	12861	5168
55°	2816	5325	2976
60°	1975	2342	1975
65°	1268	1268	1268
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17666 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2102.6	28.3
10°-20°	3386.3	45.5
20°-30°	1463.3	19.7
30°-40°	333.5	4.5
40°-50°	114.5	1.5
50°-60°	28.0	0.4
60°-70°	7.2	0.1
70°-80°	0.8	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°	6952.2	93.5
0°-40°	7285.7	98.0
0°-60°	7428.2	99.9
0°-90°	7436.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7436.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23911	23911	23911	23911	23911	
5°	23136	23114	23109	23157	23137	2104
15°	12678	12525	12609	12568	12546	3395
25°	2980	3092	3360	3014	2918	1426
35°	500	511	479	475	402	339
45°	132	163	163	163	133	93
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
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°	23911.0	23911.0	23911.0	23911.0	23911.0
2.5°	23752.5	23736.1	23745.5	23757.2	23761.9
5°	23136.2	23113.9	23109.2	23157.3	23137.4
7.5°	21893.0	21861.3	21813.2	21922.3	22024.5
10°	19810.4	19775.2	19670.7	19722.3	19805.7
12.5°	16735.8	16621.9	16619.6	16784.0	16761.6
15°	12677.5	12524.9	12609.4	12568.3	12546.0
17.5°	8525.2	8466.5	8579.2	8545.2	8398.4
20°	6132.7	6148.0	6362.8	6254.8	6124.5
22.5°	4475.1	4530.3	4785.0	4506.8	4404.7
25°	2979.5	3092.2	3359.8	3013.5	2918.4
27.5°	1832.5	1884.2	2155.4	1809.1	1757.4
30°	1139.9	1114.1	1242.0	1065.9	993.2
32.5°	747.8	714.9	756.0	678.5	619.8
35°	500.1	510.7	479.0	475.4	401.5
37.5°	312.3	359.2	317.0	338.1	258.3
40°	201.9	260.6	224.2	247.7	190.2
42.5°	165.5	200.7	184.3	196.0	169.0
45°	131.5	163.2	163.2	163.2	132.7
47.5°	72.8	109.2	139.7	111.5	77.5
50°	41.1	55.2	108.0	57.5	43.4
52.5°	28.2	31.7	74.0	32.9	29.3
55°	21.1	22.3	39.9	23.5	22.3
57.5°	16.4	17.6	21.1	17.6	16.4
60°	12.9	12.9	15.3	14.1	12.9
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.0	7.0	7.0	7.0	7.0
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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