

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: P754568

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754568  
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: LD4D85BD010-EU4DR3070959027-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7684.2 lumens  
Efficiency: N/A  
Efficacy: 87.6 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): 87.7  
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

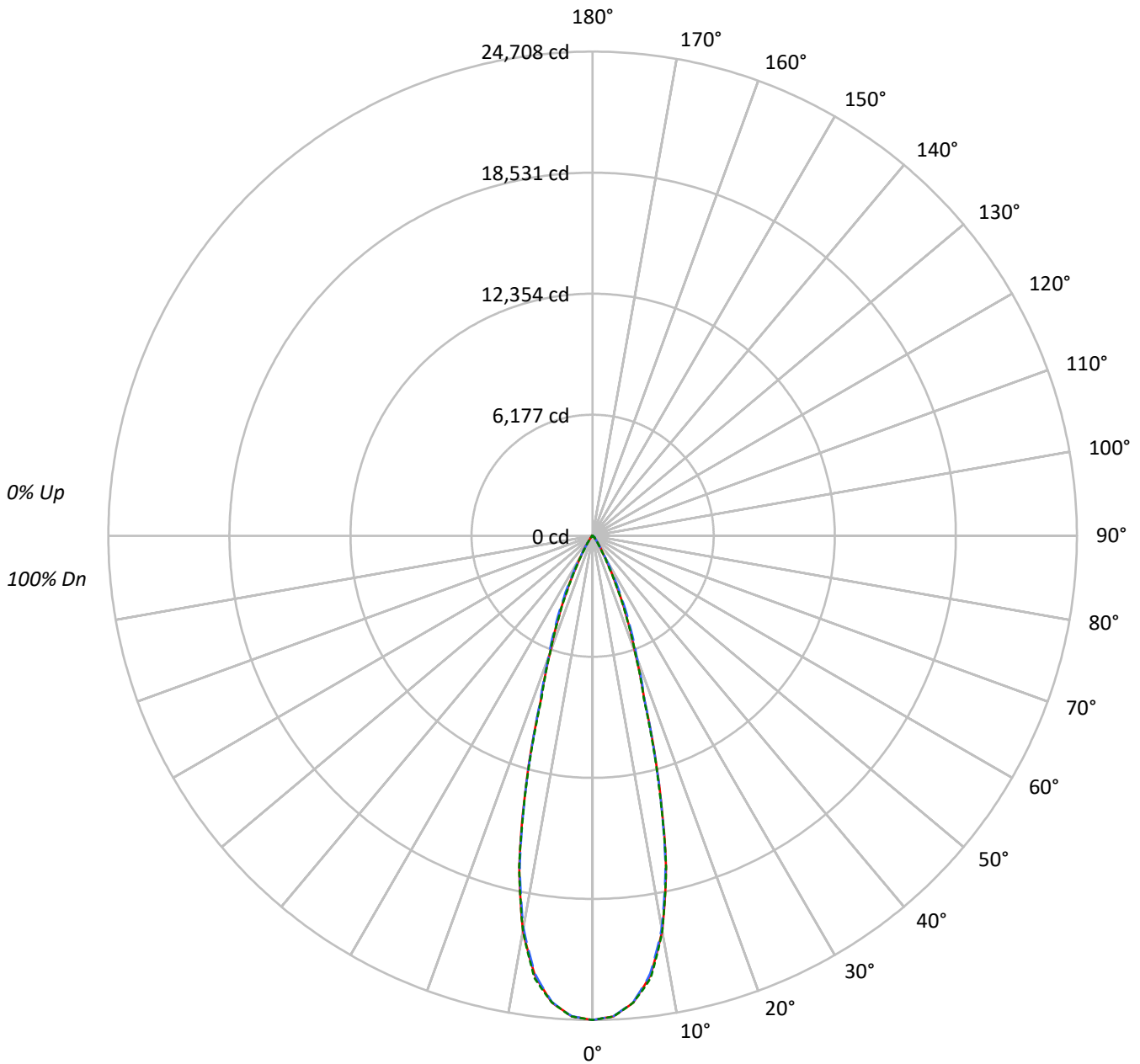


Downlight

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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°	1891257	1891257	1891257
5°	1836967	1834823	1837059
10°	1591092	1579869	1590711
15°	1038106	1032528	1027337
20°	516202	535572	515509
25°	260024	293224	254703
30°	104108	113442	90709
35°	48291	46245	38769
40°	20853	23152	19634
45°	14711	18251	14841
50°	5061	13289	5347
55°	2909	5498	3069
60°	2036	2419	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 18251 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2172.7	28.3
10°-20°	3499.2	45.5
20°-30°	1512.1	19.7
30°-40°	344.6	4.5
40°-50°	118.3	1.5
50°-60°	28.9	0.4
60°-70°	7.5	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°	7184.0	93.5
0°-40°	7528.6	98.0
0°-60°	7675.9	99.9
0°-90°	7684.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7684.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24708	24708	24708	24708	24708	
5°	23908	23885	23880	23930	23909	2175
15°	13100	12942	13030	12987	12964	3508
25°	3079	3195	3472	3114	3016	1474
35°	517	528	495	491	415	351
45°	136	169	169	169	137	96
55°	22	23	41	24	23	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°	24708.3	24708.3	24708.3	24708.3	24708.3
2.5°	24544.5	24527.6	24537.3	24549.4	24554.2
5°	23907.7	23884.6	23879.8	23929.5	23908.9
7.5°	22623.0	22590.2	22540.5	22653.3	22758.9
10°	20471.0	20434.6	20326.6	20380.0	20466.1
12.5°	17293.9	17176.2	17173.8	17343.6	17320.6
15°	13100.2	12942.5	13029.8	12987.4	12964.3
17.5°	8809.5	8748.8	8865.3	8830.1	8678.5
20°	6337.2	6353.0	6575.0	6463.4	6328.7
22.5°	4624.3	4681.3	4944.6	4657.1	4551.5
25°	3078.8	3195.3	3471.9	3114.0	3015.8
27.5°	1893.6	1947.0	2227.2	1869.4	1816.0
30°	1177.9	1151.2	1283.5	1101.5	1026.3
32.5°	772.7	738.8	781.2	701.2	640.5
35°	516.8	527.7	494.9	491.3	414.9
37.5°	322.7	371.2	327.5	349.4	266.9
40°	208.7	269.3	231.7	256.0	196.5
42.5°	171.0	207.4	190.5	202.6	174.7
45°	135.9	168.6	168.6	168.6	137.1
47.5°	75.2	112.8	144.4	115.2	80.1
50°	42.5	57.0	111.6	59.4	44.9
52.5°	29.1	32.8	76.4	34.0	30.3
55°	21.8	23.0	41.2	24.3	23.0
57.5°	17.0	18.2	21.8	18.2	17.0
60°	13.3	13.3	15.8	14.6	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.9	4.9	4.9	4.9
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	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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