

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: P754564

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754564  
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-EU4DR3070959027-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 6850.7 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

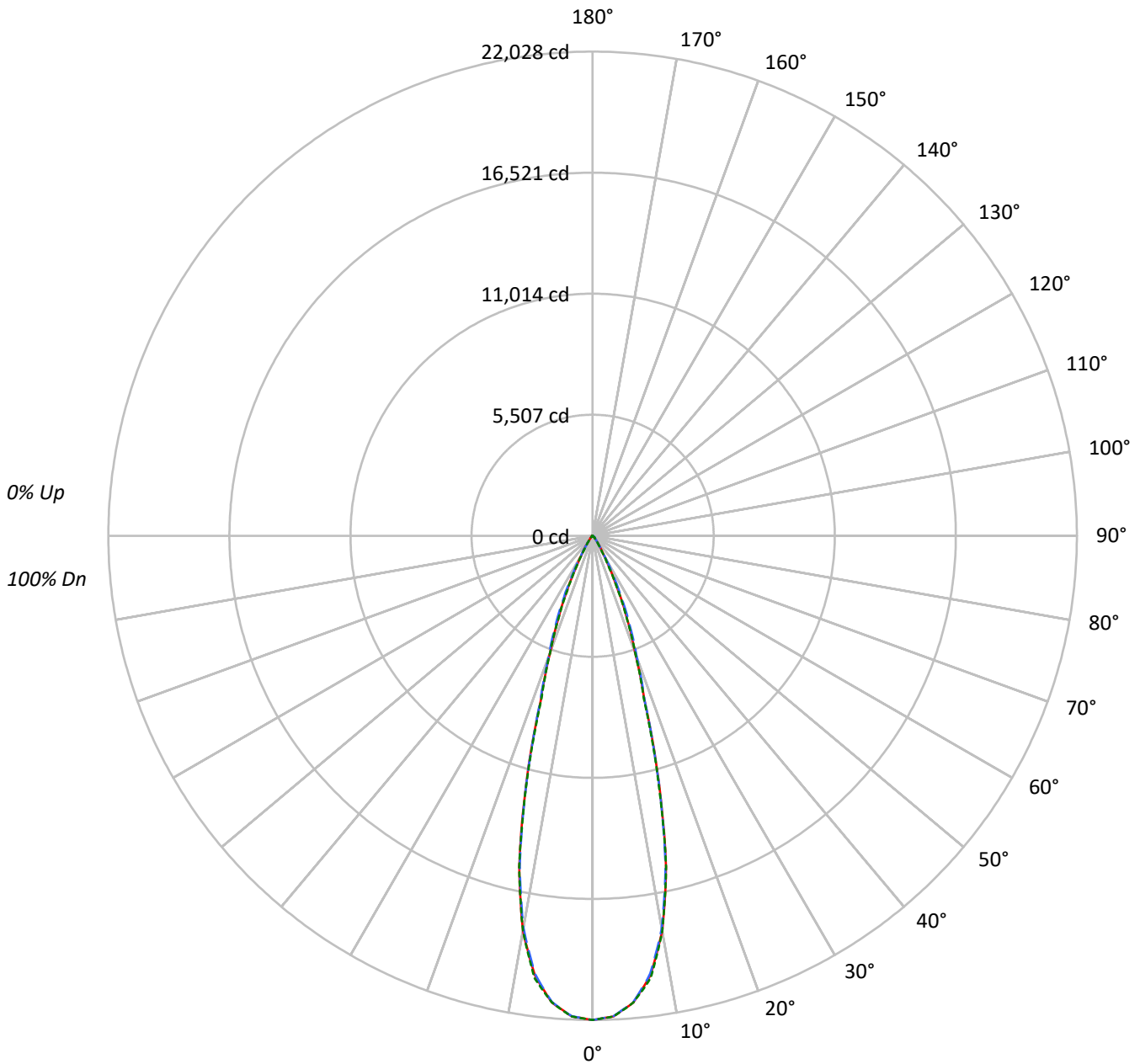
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1686129	1686129	1686129
5°	1637724	1635811	1637808
10°	1418521	1408518	1418179
15°	925509	920541	915913
20°	460217	477477	459598
25°	231824	261418	227078
30°	92822	101130	80872
35°	43049	41236	34564
40°	18585	20644	17506
45°	13109	16270	13228
50°	4513	11848	4763
55°	2602	4911	2736
60°	1822	2159	1822
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16270 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1937.1	28.3
10°-20°	3119.7	45.5
20°-30°	1348.1	19.7
30°-40°	307.3	4.5
40°-50°	105.5	1.5
50°-60°	25.8	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6404.8	93.5
0°-40°	6712.1	98.0
0°-60°	6843.3	99.9
0°-90°	6850.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6850.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22028	22028	22028	22028	22028	
5°	21315	21294	21290	21334	21316	1939
15°	11679	11539	11617	11579	11558	3127
25°	2745	2849	3095	2776	2689	1314
35°	461	470	441	438	370	313
45°	121	150	150	150	122	86
55°	20	20	37	22	20	19
65°	6	6	6	6	6	6
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°	22028.4	22028.4	22028.4	22028.4	22028.4
2.5°	21882.4	21867.3	21875.9	21886.7	21891.1
5°	21314.6	21294.1	21289.7	21334.1	21315.7
7.5°	20169.3	20140.1	20095.7	20196.3	20290.4
10°	18250.7	18218.2	18122.0	18169.5	18246.3
12.5°	15418.2	15313.2	15311.1	15462.5	15441.9
15°	11679.3	11538.7	11616.6	11578.8	11558.2
17.5°	7854.0	7799.9	7903.8	7872.4	7737.2
20°	5649.9	5663.9	5861.8	5762.3	5642.3
22.5°	4122.8	4173.6	4408.3	4152.0	4057.9
25°	2744.9	2848.7	3095.3	2776.3	2688.7
27.5°	1688.3	1735.8	1985.7	1666.6	1619.0
30°	1050.2	1026.4	1144.2	982.0	915.0
32.5°	688.9	658.6	696.5	625.1	571.0
35°	460.7	470.5	441.3	438.0	369.9
37.5°	287.7	330.9	292.0	311.5	237.9
40°	186.0	240.1	206.6	228.2	175.2
42.5°	152.5	184.9	169.8	180.6	155.7
45°	121.1	150.3	150.3	150.3	122.2
47.5°	67.1	100.6	128.7	102.7	71.4
50°	37.9	50.8	99.5	53.0	40.0
52.5°	26.0	29.2	68.1	30.3	27.0
55°	19.5	20.5	36.8	21.6	20.5
57.5°	15.1	16.2	19.5	16.2	15.1
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.7	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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