

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: P772667

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD6D85BD010-EU6DR3070959040-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 9481.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

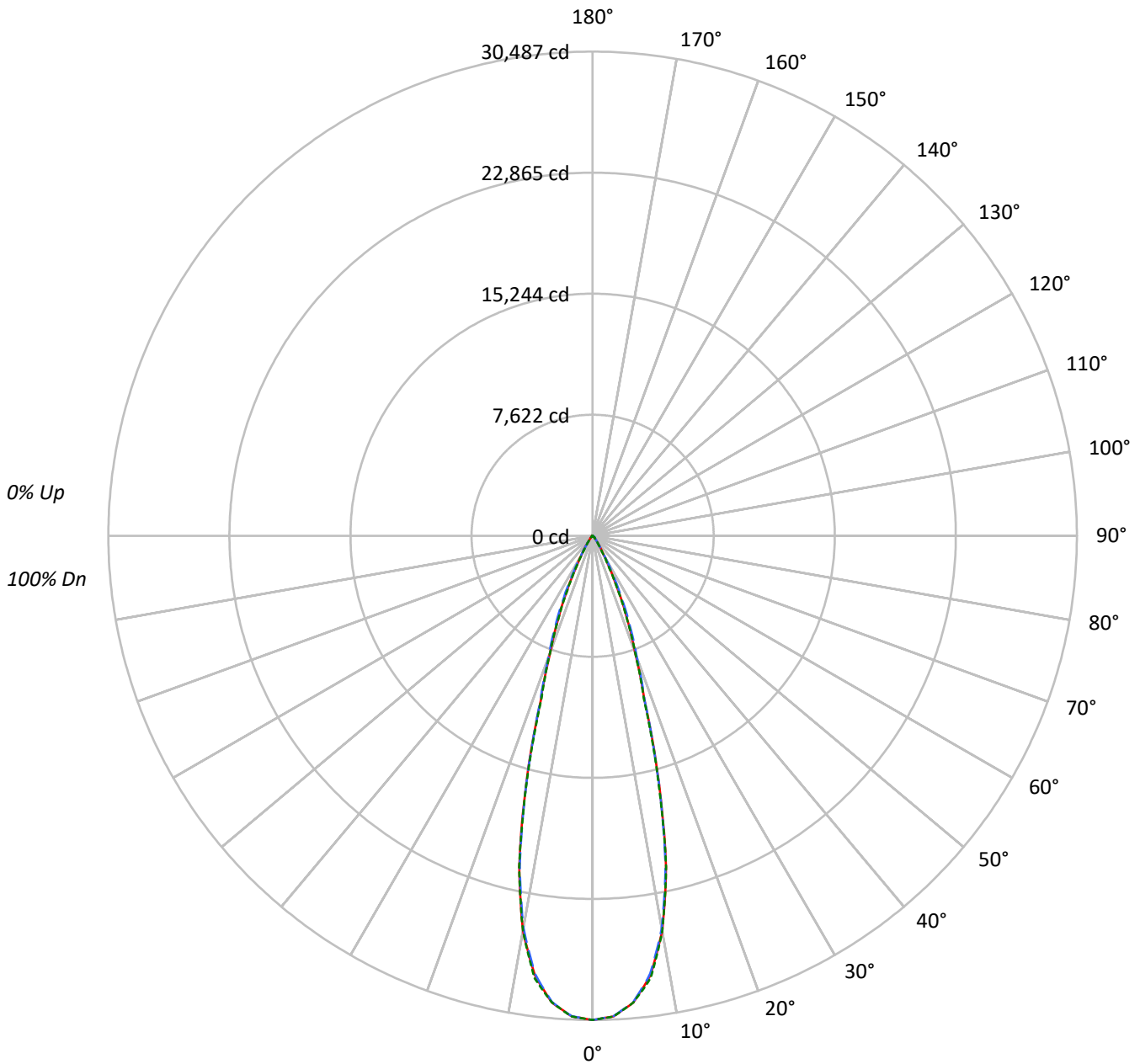
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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°	2333563	2333563	2333563
5°	2266571	2263920	2266686
10°	1963189	1949346	1962730
15°	1280885	1274007	1267604
20°	636927	660818	636072
25°	320841	361794	314262
30°	128458	139966	111922
35°	59579	57065	47833
40°	25719	28567	24231
45°	18142	22527	18305
50°	6240	16397	6597
55°	3590	6793	3790
60°	2526	2985	2526
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 22527 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2680.8	28.3
10°-20°	4317.5	45.5
20°-30°	1865.7	19.7
30°-40°	425.2	4.5
40°-50°	146.0	1.5
50°-60°	35.7	0.4
60°-70°	9.3	0.1
70°-80°	1.0	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°	8864.1	93.5
0°-40°	9289.3	98.0
0°-60°	9471.0	99.9
0°-90°	9481.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9481.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30487	30487	30487	30487	30487	
5°	29499	29470	29464	29526	29500	2683
15°	16164	15969	16077	16025	15996	4328
25°	3799	3943	4284	3842	3721	1818
35°	638	651	611	606	512	432
45°	168	208	208	208	169	119
55°	27	28	51	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30486.8	30486.8	30486.8	30486.8	30486.8
2.5°	30284.7	30263.7	30275.7	30290.7	30296.7
5°	29498.9	29470.4	29464.4	29525.8	29500.4
7.5°	27913.8	27873.3	27812.0	27951.2	28081.4
10°	25258.4	25213.5	25080.3	25146.2	25252.5
12.5°	21338.3	21193.1	21190.1	21399.7	21371.3
15°	16163.9	15969.3	16077.1	16024.7	15996.3
17.5°	10869.7	10794.9	10938.6	10895.2	10708.1
20°	7819.3	7838.7	8112.6	7974.9	7808.8
22.5°	5705.8	5776.1	6100.9	5746.2	5616.0
25°	3798.9	3942.6	4283.8	3842.3	3721.0
27.5°	2336.5	2402.4	2748.1	2306.6	2240.7
30°	1453.4	1420.5	1583.6	1359.1	1266.3
32.5°	953.5	911.5	963.9	865.1	790.3
35°	637.6	651.1	610.7	606.2	511.9
37.5°	398.1	458.0	404.1	431.1	329.3
40°	257.4	332.3	285.9	315.8	242.5
42.5°	211.0	256.0	235.0	250.0	215.5
45°	167.6	208.1	208.1	208.1	169.1
47.5°	92.8	139.2	178.1	142.2	98.8
50°	52.4	70.3	137.7	73.3	55.4
52.5°	35.9	40.4	94.3	41.9	37.4
55°	26.9	28.4	50.9	29.9	28.4
57.5°	21.0	22.5	26.9	22.5	21.0
60°	16.5	16.5	19.5	18.0	16.5
62.5°	12.0	12.0	13.5	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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)