

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P771851

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771851  
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: LD6D80BD010-EU6DR3070959027-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10126.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

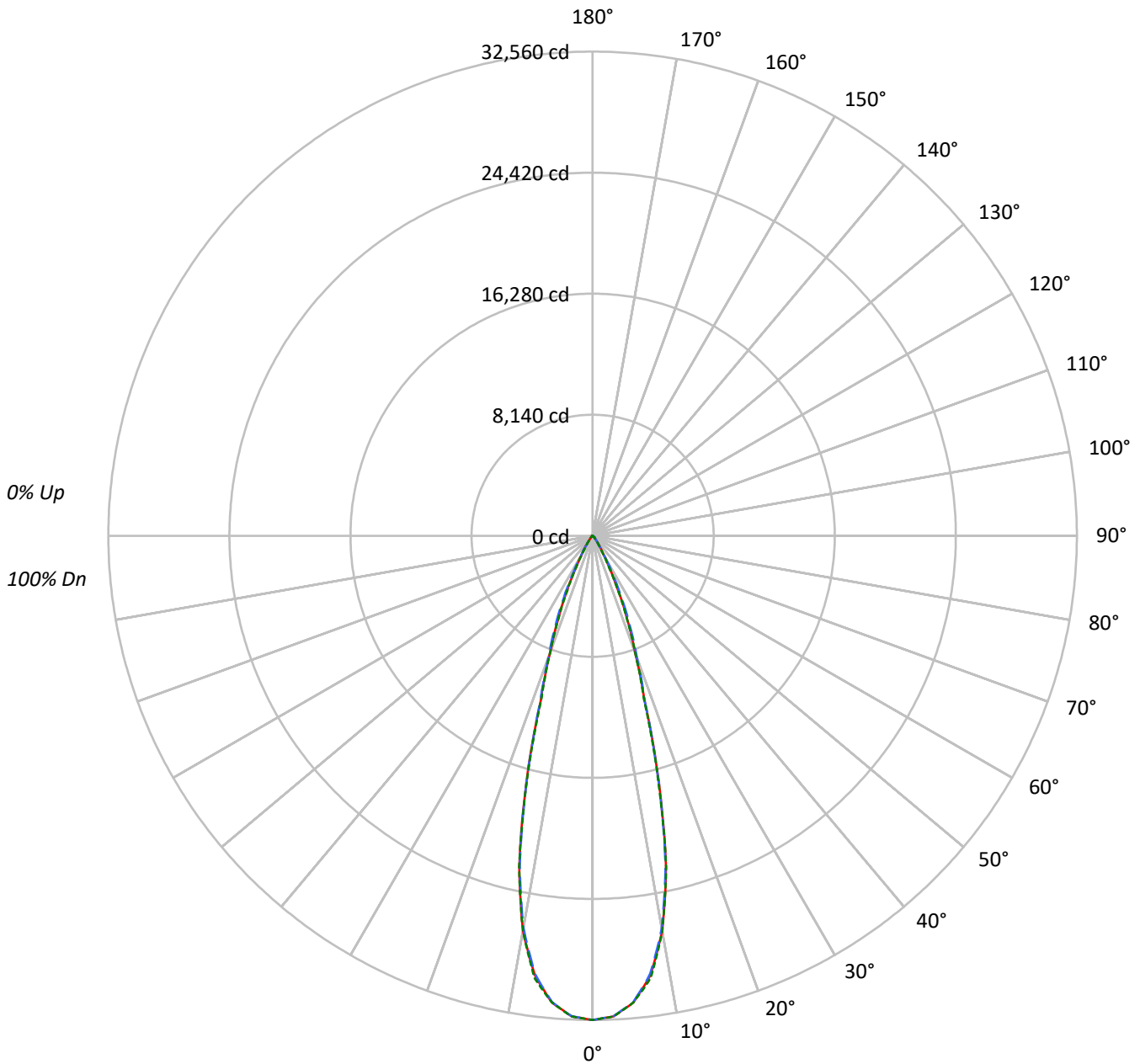
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2492261	2492261	2492261
5°	2420711	2417884	2420834
10°	2096704	2081920	2096206
15°	1367997	1360644	1353805
20°	680237	705765	679325
25°	342656	386404	335638
30°	137191	149485	119531
35°	63634	60943	51085
40°	27478	30506	25879
45°	19377	24053	19550
50°	6669	17517	7038
55°	3843	7260	4057
60°	2694	3184	2694
65°	1739	1739	1739
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 24053 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2863.2	28.3
10°-20°	4611.2	45.5
20°-30°	1992.6	19.7
30°-40°	454.2	4.5
40°-50°	155.9	1.5
50°-60°	38.1	0.4
60°-70°	9.9	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°	9466.9	93.5
0°-40°	9921.1	98.0
0°-60°	10115.1	99.9
0°-90°	10126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10126.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32560	32560	32560	32560	32560	
5°	31505	31475	31468	31534	31507	2866
15°	17263	17055	17170	17114	17084	4622
25°	4057	4211	4575	4104	3974	1942
35°	681	695	652	647	547	462
45°	179	222	222	222	181	127
55°	29	30	54	32	30	28
65°	10	10	10	10	10	9
75°	0	0	2	0	0	1
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°	32560.1	32560.1	32560.1	32560.1	32560.1
2.5°	32344.3	32321.9	32334.7	32350.6	32357.0
5°	31505.0	31474.6	31468.2	31533.8	31506.6
7.5°	29812.1	29768.9	29703.4	29852.1	29991.1
10°	26976.2	26928.2	26786.0	26856.3	26969.8
12.5°	22789.5	22634.4	22631.2	22855.0	22824.7
15°	17263.2	17055.3	17170.4	17114.5	17084.1
17.5°	11609.0	11529.0	11682.5	11636.1	11436.3
20°	8351.0	8371.8	8664.4	8517.3	8339.8
22.5°	6093.8	6169.0	6515.8	6137.0	5997.9
25°	4057.2	4210.7	4575.2	4103.6	3974.1
27.5°	2495.4	2565.7	2935.0	2463.4	2393.1
30°	1552.2	1517.1	1691.3	1451.5	1352.4
32.5°	1018.3	973.5	1029.5	924.0	844.1
35°	681.0	695.4	652.2	647.4	546.7
37.5°	425.2	489.2	431.6	460.4	351.7
40°	275.0	354.9	305.3	337.3	259.0
42.5°	225.4	273.4	251.0	267.0	230.2
45°	179.0	222.2	222.2	222.2	180.6
47.5°	99.1	148.7	190.2	151.9	105.5
50°	56.0	75.1	147.1	78.3	59.1
52.5°	38.4	43.2	100.7	44.8	40.0
55°	28.8	30.4	54.4	32.0	30.4
57.5°	22.4	24.0	28.8	24.0	22.4
60°	17.6	17.6	20.8	19.2	17.6
62.5°	12.8	12.8	14.4	12.8	12.8
65°	9.6	9.6	9.6	9.6	9.6
67.5°	4.8	6.4	6.4	6.4	6.4
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)