

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: P771836

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771836  
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-EU6DR3070959024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7982.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

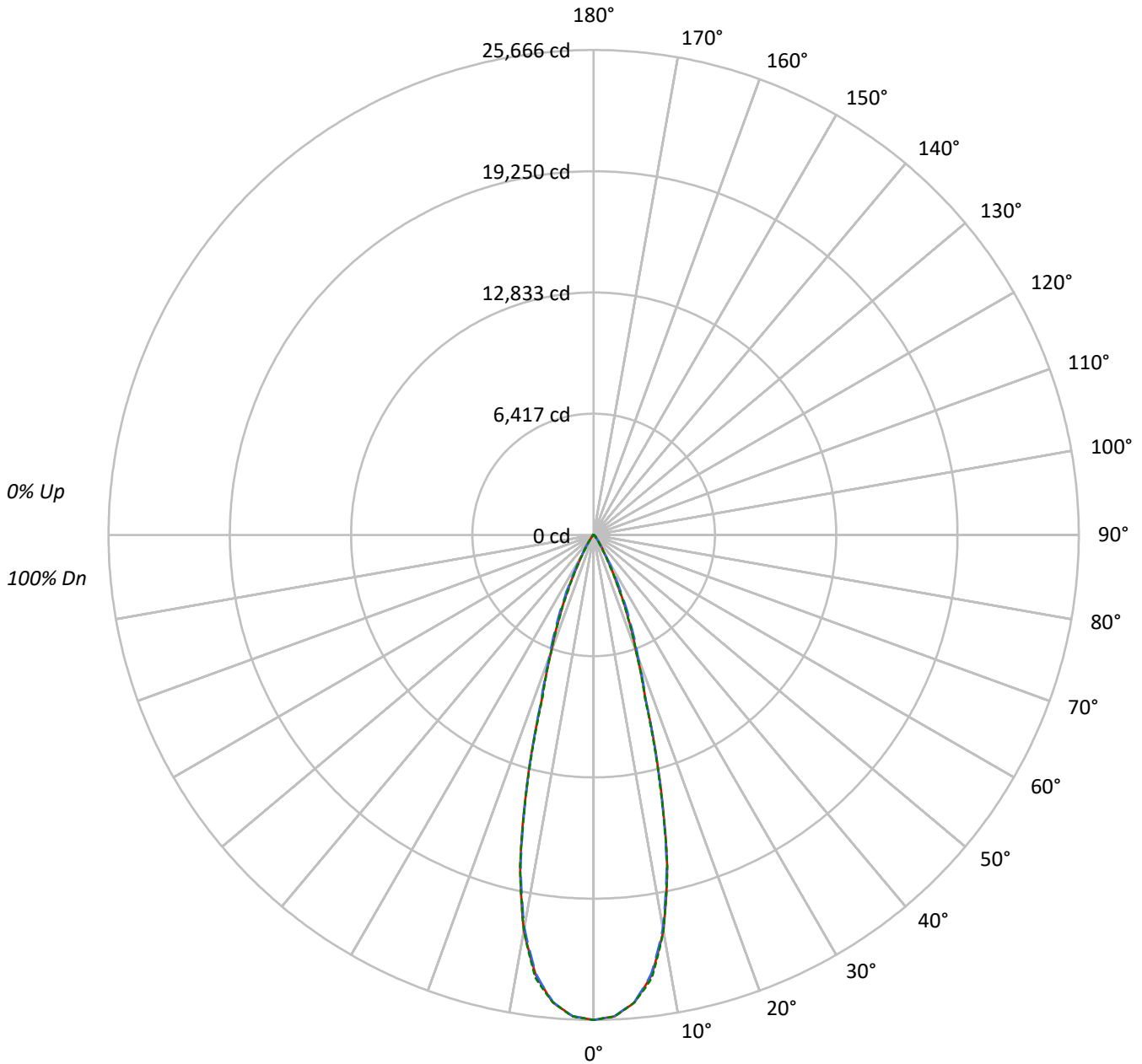
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1964563	1964563	1964563
5°	1908163	1905935	1908263
10°	1652759	1641108	1652370
15°	1078346	1072554	1067157
20°	536207	556327	535490
25°	270108	304583	264568
30°	108148	117834	94227
35°	50160	48039	40274
40°	21653	24051	20394
45°	15274	18965	15415
50°	5251	13801	5549
55°	3029	5712	3189
60°	2128	2511	2128
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18965 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2256.9	28.3
10°-20°	3634.8	45.5
20°-30°	1570.7	19.7
30°-40°	358.0	4.5
40°-50°	122.9	1.5
50°-60°	30.0	0.4
60°-70°	7.8	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°	7462.5	93.5
0°-40°	7820.4	98.0
0°-60°	7973.4	99.9
0°-90°	7982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25666	25666	25666	25666	25666	
5°	24834	24810	24805	24857	24836	2259
15°	13608	13444	13535	13491	13467	3644
25°	3198	3319	3606	3235	3133	1531
35°	537	548	514	510	431	364
45°	141	175	175	175	142	100
55°	23	24	43	25	24	22
65°	8	8	8	8	8	7
75°	0	0	1	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°	25666.0	25666.0	25666.0	25666.0	25666.0
2.5°	25495.9	25478.2	25488.3	25500.9	25506.0
5°	24834.3	24810.4	24805.3	24857.0	24835.6
7.5°	23499.9	23465.8	23414.2	23531.4	23641.0
10°	21264.4	21226.6	21114.5	21169.9	21259.4
12.5°	17964.2	17842.0	17839.4	18015.8	17991.9
15°	13608.0	13444.2	13534.9	13490.8	13466.8
17.5°	9150.9	9087.9	9208.9	9172.4	9014.9
20°	6582.8	6599.2	6829.8	6713.9	6574.0
22.5°	4803.6	4862.8	5136.2	4837.6	4727.9
25°	3198.2	3319.1	3606.4	3234.7	3132.6
27.5°	1967.0	2022.5	2313.6	1941.8	1886.4
30°	1223.6	1195.8	1333.2	1144.2	1066.1
32.5°	802.7	767.4	811.5	728.3	665.3
35°	536.8	548.1	514.1	510.3	431.0
37.5°	335.2	385.6	340.2	362.9	277.2
40°	216.7	279.7	240.7	265.9	204.1
42.5°	177.7	215.5	197.8	210.4	181.5
45°	141.1	175.2	175.2	175.2	142.4
47.5°	78.1	117.2	150.0	119.7	83.2
50°	44.1	59.2	115.9	61.7	46.6
52.5°	30.2	34.0	79.4	35.3	31.5
55°	22.7	23.9	42.8	25.2	23.9
57.5°	17.6	18.9	22.7	18.9	17.6
60°	13.9	13.9	16.4	15.1	13.9
62.5°	10.1	10.1	11.3	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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



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Scaled Data Report







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

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(END OF REPORT)