

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: P771897

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771897  
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-EU6DR3070959050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8095.3 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

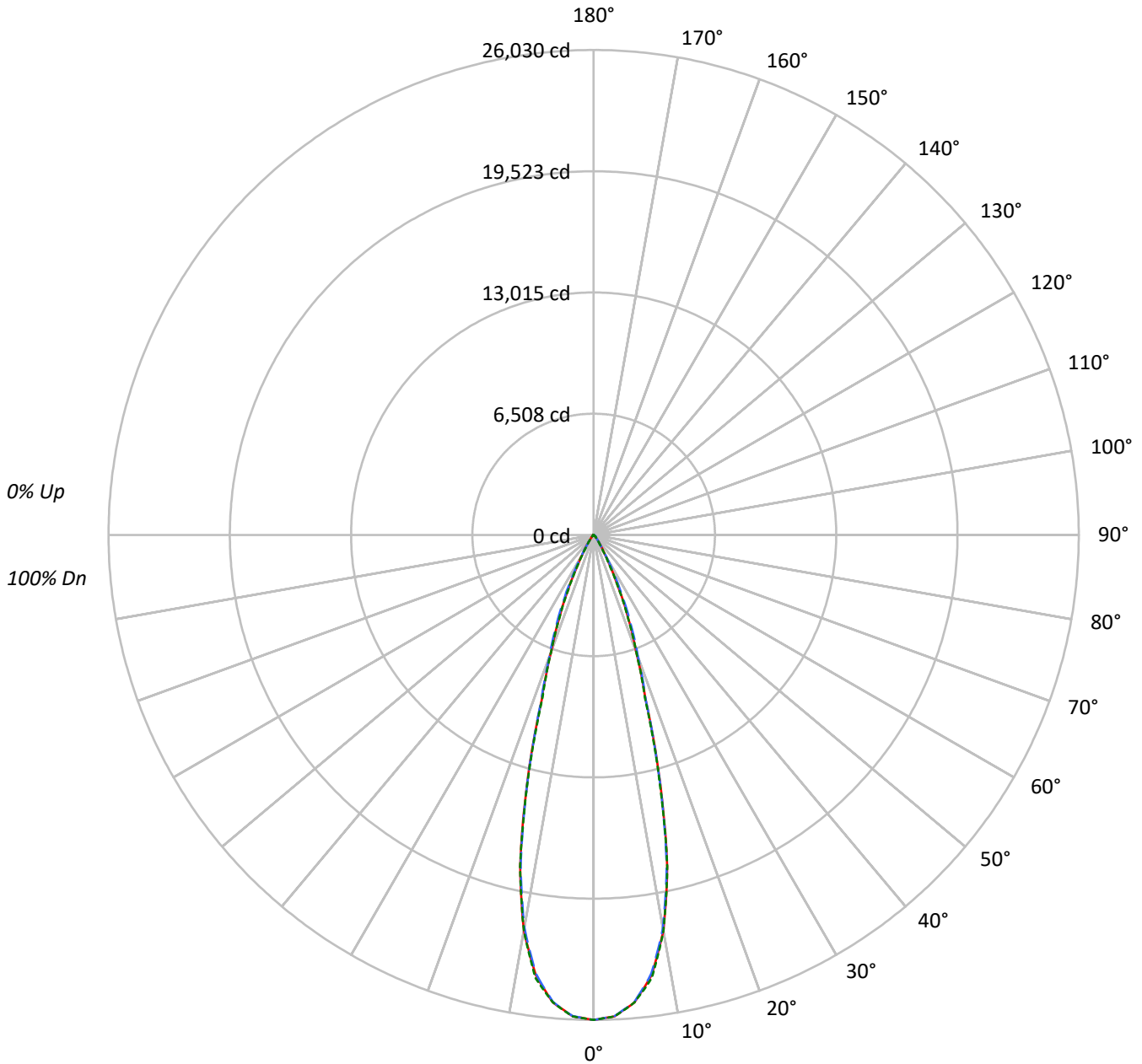
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1992455	1992455	1992455
5°	1935255	1932996	1935355
10°	1676223	1664409	1675827
15°	1093656	1087784	1082308
20°	543823	564228	543098
25°	273942	308916	268326
30°	109677	119505	95562
35°	50870	48721	40844
40°	21962	24391	20684
45°	15490	19225	15631
50°	5323	14004	5633
55°	3069	5805	3243
60°	2159	2541	2159
65°	1395	1395	1395
70°	850	582	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: 19225 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2289.0	28.3
10°-20°	3686.4	45.5
20°-30°	1593.0	19.7
30°-40°	363.1	4.5
40°-50°	124.7	1.5
50°-60°	30.5	0.4
60°-70°	7.9	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°	7568.4	93.5
0°-40°	7931.5	98.0
0°-60°	8086.6	99.9
0°-90°	8095.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8095.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26030	26030	26030	26030	26030	
5°	25187	25163	25158	25210	25188	2291
15°	13801	13635	13727	13682	13658	3695
25°	3244	3366	3658	3281	3177	1553
35°	544	556	521	518	437	369
45°	143	178	178	178	144	102
55°	23	24	44	26	24	22
65°	8	8	8	8	8	8
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°	26030.4	26030.4	26030.4	26030.4	26030.4
2.5°	25857.9	25840.0	25850.2	25863.0	25868.1
5°	25186.9	25162.6	25157.5	25209.9	25188.2
7.5°	23833.5	23799.0	23746.6	23865.5	23976.7
10°	21566.3	21528.0	21414.3	21470.5	21561.2
12.5°	18219.2	18095.3	18092.7	18271.6	18247.4
15°	13801.2	13635.0	13727.1	13682.3	13658.0
17.5°	9280.9	9217.0	9339.7	9302.6	9142.8
20°	6676.3	6692.9	6926.8	6809.2	6667.4
22.5°	4871.8	4931.8	5209.1	4906.3	4795.1
25°	3243.6	3366.3	3657.7	3280.6	3177.1
27.5°	1995.0	2051.2	2346.4	1969.4	1913.2
30°	1240.9	1212.8	1352.1	1160.4	1081.2
32.5°	814.1	778.3	823.0	738.7	674.8
35°	544.4	555.9	521.4	517.6	437.1
37.5°	339.9	391.1	345.1	368.1	281.2
40°	219.8	283.7	244.1	269.7	207.0
42.5°	180.2	218.5	200.6	213.4	184.0
45°	143.1	177.6	177.6	177.6	144.4
47.5°	79.2	118.9	152.1	121.4	84.3
50°	44.7	60.1	117.6	62.6	47.3
52.5°	30.7	34.5	80.5	35.8	32.0
55°	23.0	24.3	43.5	25.6	24.3
57.5°	17.9	19.2	23.0	19.2	17.9
60°	14.1	14.1	16.6	15.3	14.1
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	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

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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