

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: P772614

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772614  
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-EU6DR3070959024-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9040.5 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

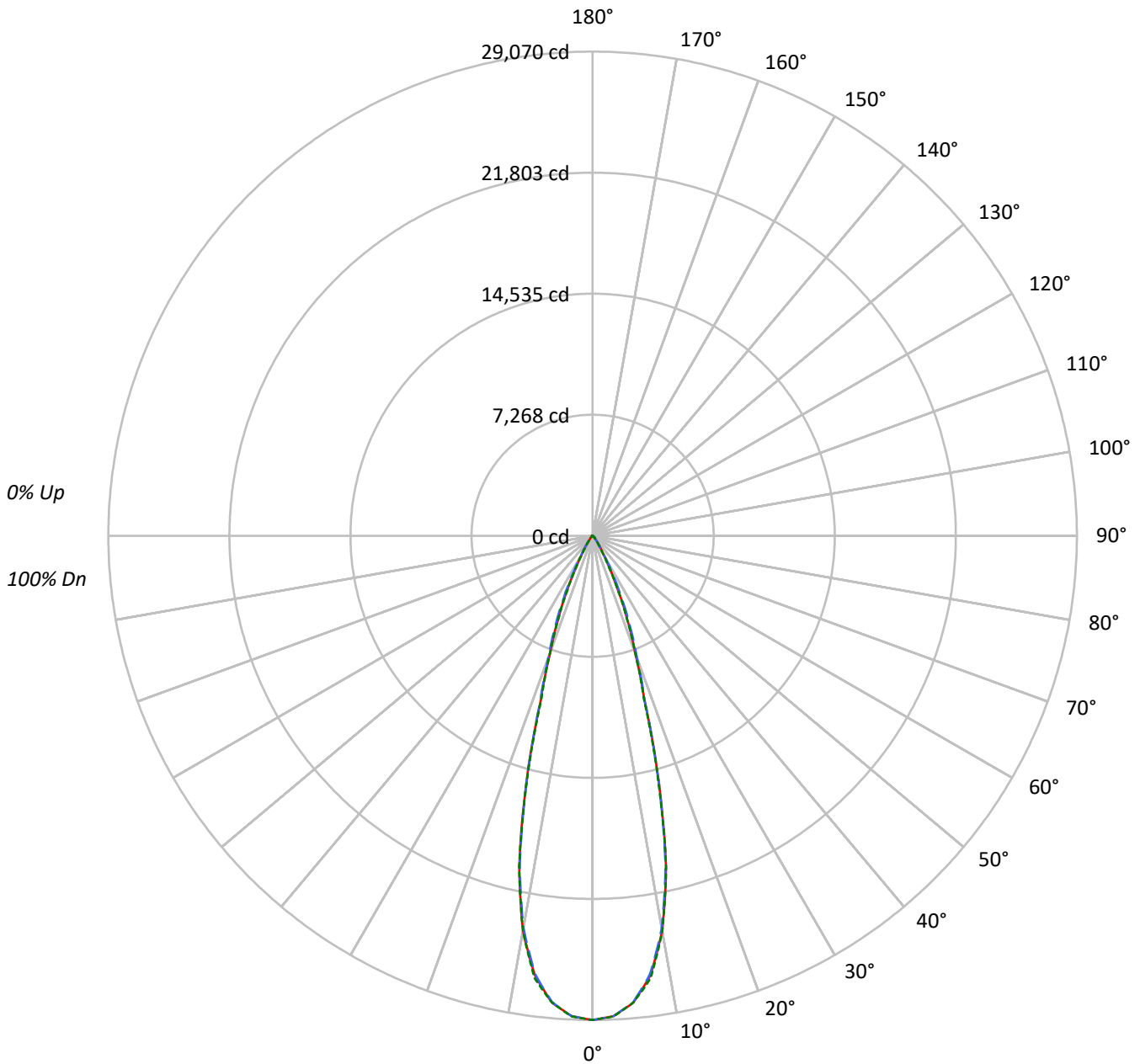


Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2225086	2225086	2225086
5°	2161206	2158686	2161314
10°	1871933	1858728	1871490
15°	1221341	1214780	1208678
20°	607318	630101	606503
25°	305926	344979	299659
30°	122484	133461	106716
35°	56813	54411	45609
40°	24530	27238	23102
45°	17298	21477	17461
50°	5954	15635	6287
55°	3430	6472	3616
60°	2403	2847	2403
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2556.2	28.3
10°-20°	4116.8	45.5
20°-30°	1779.0	19.7
30°-40°	405.5	4.5
40°-50°	139.2	1.5
50°-60°	34.0	0.4
60°-70°	8.8	0.1
70°-80°	0.9	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°	8452.0	93.5
0°-40°	8857.5	98.0
0°-60°	9030.7	99.9
0°-90°	9040.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9040.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29070	29070	29070	29070	29070	
5°	28128	28100	28095	28153	28129	2558
15°	15412	15227	15330	15280	15253	4127
25°	3622	3759	4085	3664	3548	1734
35°	608	621	582	578	488	412
45°	160	198	198	198	161	113
55°	26	27	48	28	27	25
65°	9	9	9	9	9	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°	29069.6	29069.6	29069.6	29069.6	29069.6
2.5°	28876.9	28856.9	28868.3	28882.6	28888.3
5°	28127.6	28100.5	28094.8	28153.3	28129.0
7.5°	26616.2	26577.6	26519.1	26651.8	26776.0
10°	24084.3	24041.5	23914.4	23977.2	24078.6
12.5°	20346.4	20208.0	20205.1	20404.9	20377.8
15°	15412.5	15227.0	15329.7	15279.8	15252.7
17.5°	10364.4	10293.1	10430.1	10388.7	10210.3
20°	7455.8	7474.3	7735.5	7604.2	7445.8
22.5°	5440.6	5507.6	5817.3	5479.1	5354.9
25°	3622.3	3759.3	4084.7	3663.7	3548.1
27.5°	2227.9	2290.7	2620.4	2199.3	2136.5
30°	1385.8	1354.4	1510.0	1295.9	1207.4
32.5°	909.1	869.2	919.1	824.9	753.6
35°	608.0	620.8	582.3	578.0	488.1
37.5°	379.6	436.7	385.3	411.0	314.0
40°	245.5	316.8	272.6	301.1	231.2
42.5°	201.2	244.1	224.1	238.3	205.5
45°	159.8	198.4	198.4	198.4	161.3
47.5°	88.5	132.7	169.8	135.6	94.2
50°	50.0	67.1	131.3	69.9	52.8
52.5°	34.3	38.5	89.9	40.0	35.7
55°	25.7	27.1	48.5	28.5	27.1
57.5°	20.0	21.4	25.7	21.4	20.0
60°	15.7	15.7	18.6	17.1	15.7
62.5°	11.4	11.4	12.8	11.4	11.4
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)