

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: P770298

Luminaire Tested: LD6D70BD010-EU6DR3070959030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770298  
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: LD6D70BD010-EU6DR3070959030-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6345.9 lumens  
Efficiency: N/A  
Efficacy: 95.3 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

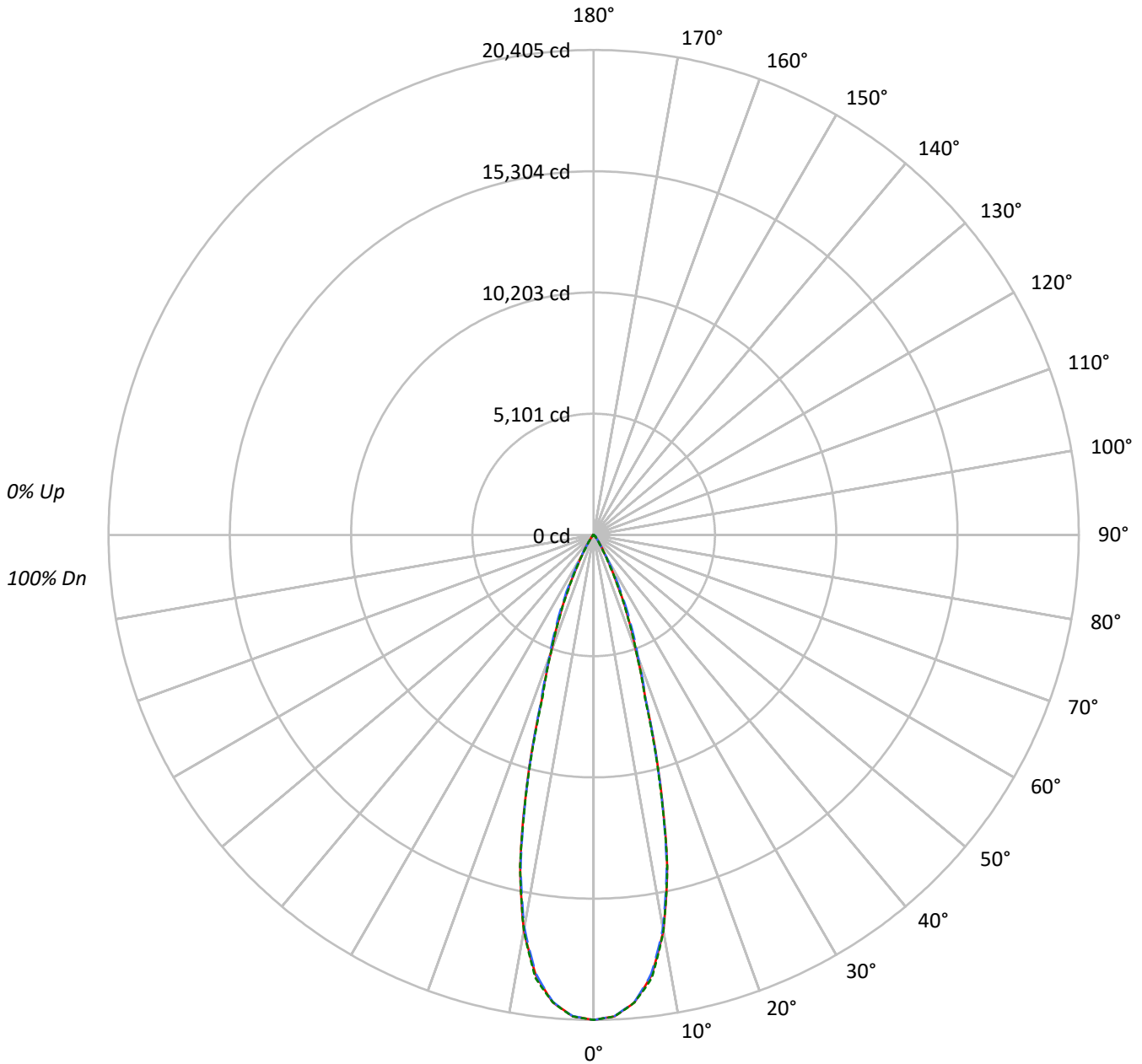
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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																			
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°	1561899	1561899	1561899
5°	1517053	1515286	1517138
10°	1314005	1304733	1313687
15°	857320	852716	848429
20°	426307	442297	425737
25°	214747	242153	210347
30°	85981	93679	74915
35°	39881	38190	32013
40°	17216	19125	16217
45°	12146	15079	12254
50°	4180	10979	4418
55°	2402	4551	2536
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15079 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1794.3	28.3
10°-20°	2889.8	45.5
20°-30°	1248.8	19.7
30°-40°	284.6	4.5
40°-50°	97.7	1.5
50°-60°	23.9	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5932.9	93.5
0°-40°	6217.5	98.0
0°-60°	6339.1	99.9
0°-90°	6345.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6345.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20405	20405	20405	20405	20405	
5°	19744	19725	19721	19762	19745	1796
15°	10819	10689	10761	10726	10707	2897
25°	2543	2639	2867	2572	2491	1217
35°	427	436	409	406	343	289
45°	112	139	139	139	113	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20405.4	20405.4	20405.4	20405.4	20405.4
2.5°	20270.1	20256.1	20264.1	20274.1	20278.1
5°	19744.1	19725.1	19721.1	19762.2	19745.2
7.5°	18683.2	18656.2	18615.1	18708.3	18795.4
10°	16906.0	16875.9	16786.7	16830.8	16901.9
12.5°	14282.1	14185.0	14183.0	14323.2	14304.2
15°	10818.8	10688.6	10760.7	10725.6	10706.6
17.5°	7275.3	7225.2	7321.4	7292.4	7167.1
20°	5233.6	5246.6	5429.9	5337.8	5226.6
22.5°	3819.0	3866.1	4083.5	3846.0	3758.9
25°	2542.7	2638.8	2867.2	2571.7	2490.6
27.5°	1563.9	1607.9	1839.4	1543.8	1499.7
30°	972.8	950.7	1059.9	909.7	847.6
32.5°	638.2	610.1	645.2	579.1	529.0
35°	426.8	435.8	408.7	405.7	342.6
37.5°	266.5	306.6	270.5	288.5	220.4
40°	172.3	222.4	191.4	211.4	162.3
42.5°	141.3	171.3	157.3	167.3	144.3
45°	112.2	139.3	139.3	139.3	113.2
47.5°	62.1	93.2	119.2	95.2	66.1
50°	35.1	47.1	92.2	49.1	37.1
52.5°	24.0	27.0	63.1	28.1	25.0
55°	18.0	19.0	34.1	20.0	19.0
57.5°	14.0	15.0	18.0	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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