

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: P770325

Luminaire Tested: LD6D70BD010-EU6DR3070959040-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770325  
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-EU6DR3070959040-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8337.7 lumens  
Efficiency: N/A  
Efficacy: 125.2 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

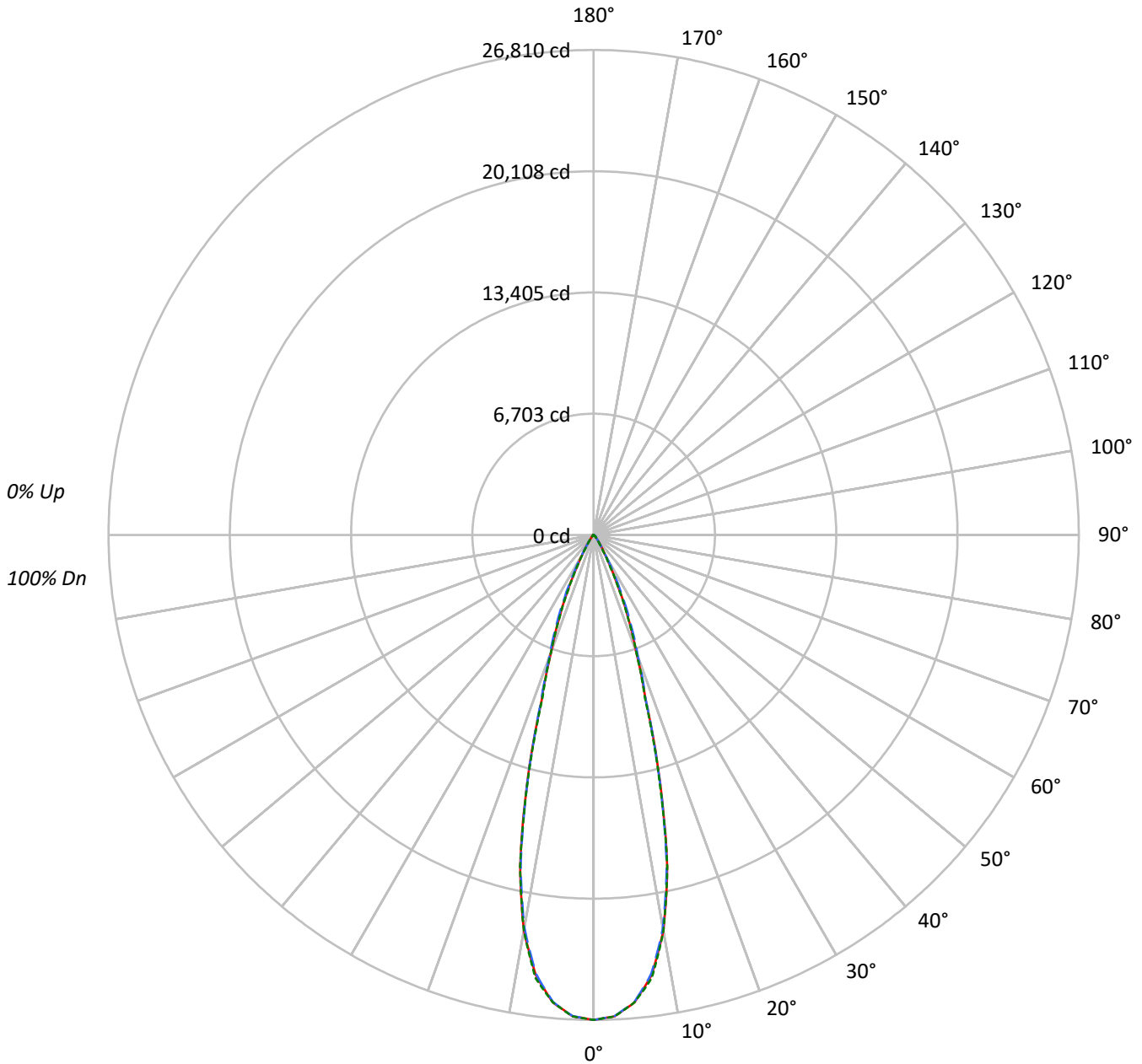
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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						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°	2052105	2052105	2052105
5°	1993197	1990869	1993297
10°	1726410	1714238	1726006
15°	1126400	1120345	1114719
20°	560106	581122	559357
25°	282143	318164	276358
30°	112964	123085	98425
35°	52393	50178	42068
40°	22622	25120	21303
45°	15956	19810	16097
50°	5490	14421	5799
55°	3163	5979	3336
60°	2220	2618	2220
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 19810 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2357.5	28.3
10°-20°	3796.8	45.5
20°-30°	1640.7	19.7
30°-40°	373.9	4.5
40°-50°	128.4	1.5
50°-60°	31.4	0.4
60°-70°	8.1	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°	7795.0	93.5
0°-40°	8169.0	98.0
0°-60°	8328.7	99.9
0°-90°	8337.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8337.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26810	26810	26810	26810	26810	
5°	25941	25916	25911	25965	25942	2359
15°	14214	14043	14138	14092	14067	3806
25°	3341	3467	3767	3379	3272	1599
35°	561	573	537	533	450	380
45°	147	183	183	183	149	105
55°	24	25	45	26	25	23
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°	26809.7	26809.7	26809.7	26809.7	26809.7
2.5°	26632.1	26613.6	26624.2	26637.3	26642.6
5°	25941.0	25916.0	25910.7	25964.7	25942.3
7.5°	24547.1	24511.5	24457.6	24580.0	24694.5
10°	22212.0	22172.5	22055.4	22113.3	22206.8
12.5°	18764.7	18637.0	18634.4	18818.7	18793.7
15°	14214.4	14043.3	14138.0	14092.0	14067.0
17.5°	9558.7	9492.9	9619.3	9581.1	9416.6
20°	6876.2	6893.3	7134.2	7013.1	6867.0
22.5°	5017.6	5079.5	5365.1	5053.2	4938.6
25°	3340.7	3467.0	3767.2	3378.9	3272.2
27.5°	2054.7	2112.6	2416.7	2028.4	1970.5
30°	1278.1	1249.1	1392.6	1195.2	1113.6
32.5°	838.5	801.6	847.7	760.8	695.0
35°	560.7	572.6	537.0	533.1	450.2
37.5°	350.1	402.8	355.4	379.1	289.6
40°	226.4	292.2	251.4	277.7	213.2
42.5°	185.6	225.1	206.7	219.8	189.5
45°	147.4	183.0	183.0	183.0	148.7
47.5°	81.6	122.4	156.6	125.0	86.9
50°	46.1	61.9	121.1	64.5	48.7
52.5°	31.6	35.5	82.9	36.9	32.9
55°	23.7	25.0	44.8	26.3	25.0
57.5°	18.4	19.7	23.7	19.7	18.4
60°	14.5	14.5	17.1	15.8	14.5
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.3	5.3	5.3	5.3
70°	3.9	2.6	2.6	2.6	3.9
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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