

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: P771104

Luminaire Tested: LD6D75BD010-EU6DR3070959040-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771104  
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: LD6D75BD010-EU6DR3070959040-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7094.8 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

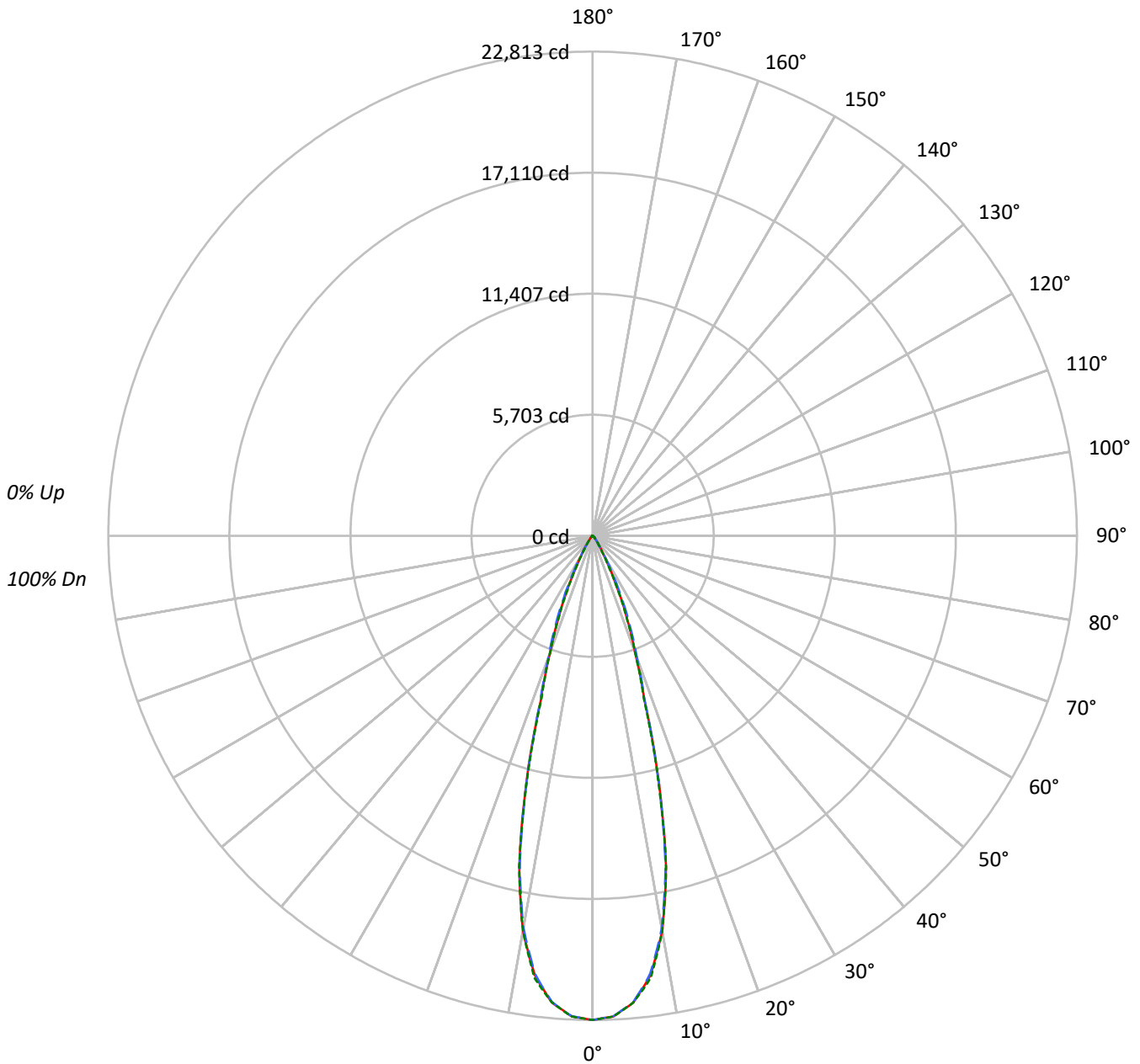
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1746200	1746200	1746200
5°	1696065	1694091	1696150
10°	1469050	1458689	1468700
15°	958482	953332	948545
20°	476606	494494	475971
25°	240084	270733	235160
30°	96127	104736	83753
35°	44581	42703	35798
40°	19245	21373	18126
45°	13574	16854	13704
50°	4668	12265	4930
55°	2696	5084	2842
60°	1883	2235	1883
65°	1213	1213	1213
70°	761	492	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16854 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2006.1	28.3
10°-20°	3230.8	45.5
20°-30°	1396.1	19.7
30°-40°	318.2	4.5
40°-50°	109.3	1.5
50°-60°	26.7	0.4
60°-70°	6.9	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°	6633.0	93.5
0°-40°	6951.2	98.0
0°-60°	7087.1	99.9
0°-90°	7094.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22813	22813	22813	22813	22813	
5°	22074	22053	22048	22094	22075	2008
15°	12095	11950	12030	11991	11970	3239
25°	2843	2950	3206	2875	2784	1361
35°	477	487	457	454	383	324
45°	125	156	156	156	127	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
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°	22813.2	22813.2	22813.2	22813.2	22813.2
2.5°	22662.0	22646.3	22655.2	22666.4	22670.9
5°	22073.9	22052.6	22048.2	22094.1	22075.0
7.5°	20887.8	20857.6	20811.6	20915.8	21013.2
10°	18900.8	18867.2	18767.5	18816.8	18896.3
12.5°	15967.4	15858.8	15856.5	16013.3	15992.1
15°	12095.4	11949.8	12030.4	11991.2	11970.0
17.5°	8133.8	8077.8	8185.3	8152.8	8012.8
20°	5851.1	5865.7	6070.7	5967.6	5843.3
22.5°	4269.6	4322.3	4565.3	4299.9	4202.4
25°	2842.7	2950.2	3205.6	2875.2	2784.4
27.5°	1748.4	1797.7	2056.4	1726.0	1676.7
30°	1087.6	1062.9	1185.0	1017.0	947.6
32.5°	713.5	682.1	721.3	647.4	591.4
35°	477.1	487.2	457.0	453.6	383.1
37.5°	297.9	342.7	302.4	322.6	246.4
40°	192.6	248.7	213.9	236.3	181.4
42.5°	157.9	191.5	175.8	187.0	161.3
45°	125.4	155.7	155.7	155.7	126.6
47.5°	69.4	104.2	133.3	106.4	73.9
50°	39.2	52.6	103.0	54.9	41.4
52.5°	26.9	30.2	70.6	31.4	28.0
55°	20.2	21.3	38.1	22.4	21.3
57.5°	15.7	16.8	20.2	16.8	15.7
60°	12.3	12.3	14.6	13.4	12.3
62.5°	9.0	9.0	10.1	9.0	9.0
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.2	2.2	2.2	3.4
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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