

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: P770275

Luminaire Tested: LD6D70BD010-EU6DR3070959024-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770275  
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-EU6DR3070959024-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6025.2 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

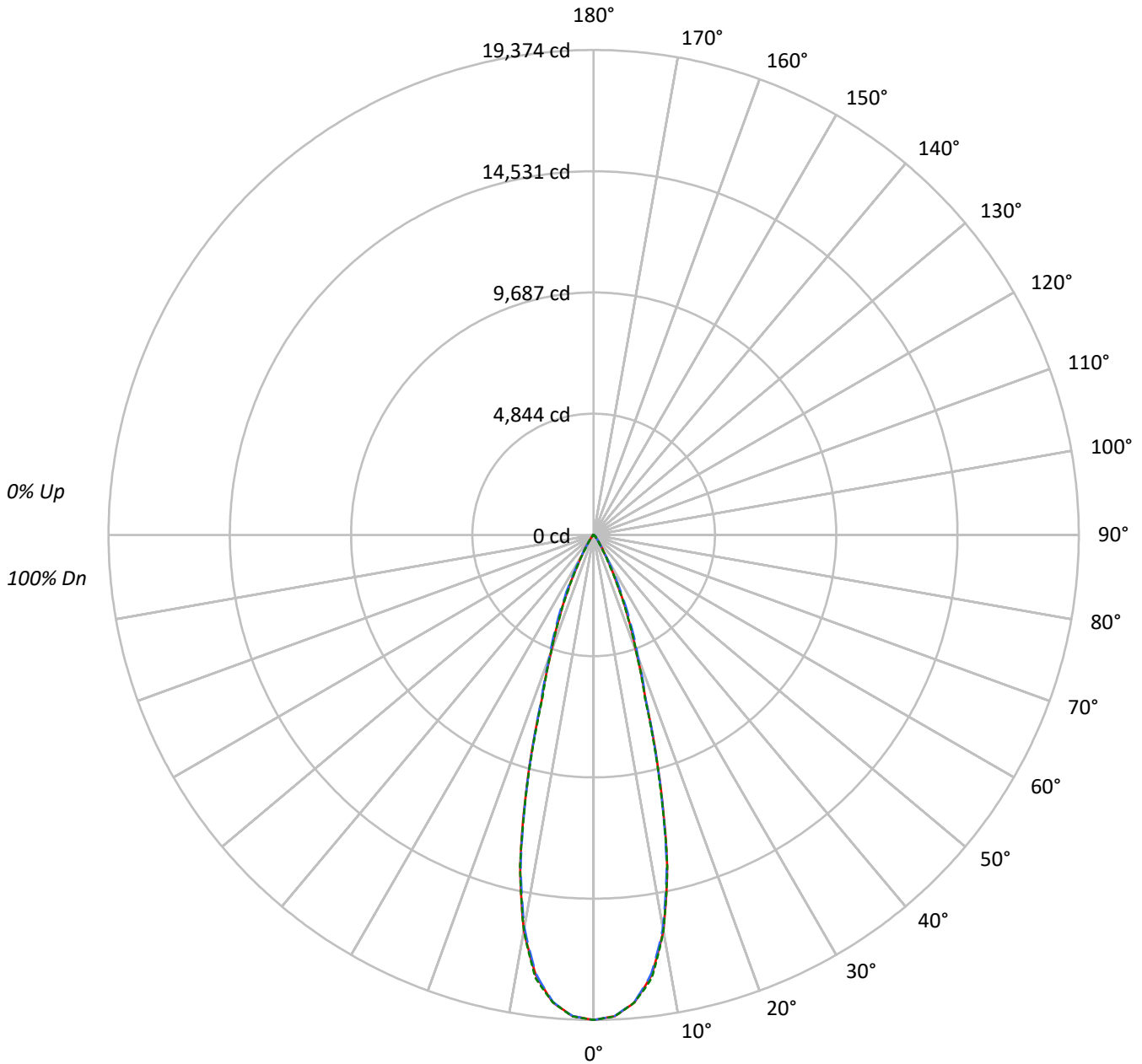
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1482936	1482936	1482936
5°	1440364	1438681	1440440
10°	1247574	1238776	1247279
15°	813982	809608	805542
20°	404754	419937	404216
25°	203886	229915	199714
30°	81632	88950	71123
35°	37863	36265	30397
40°	16347	18156	15398
45°	11528	14310	11637
50°	3965	10420	4192
55°	2282	4310	2415
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14310 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1703.6	28.3
10°-20°	2743.7	45.5
20°-30°	1185.6	19.7
30°-40°	270.2	4.5
40°-50°	92.8	1.5
50°-60°	22.7	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5633.0	93.5
0°-40°	5903.2	98.0
0°-60°	6018.7	99.9
0°-90°	6025.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6025.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19374	19374	19374	19374	19374	
5°	18746	18728	18724	18763	18747	1705
15°	10272	10148	10217	10183	10165	2750
25°	2414	2505	2722	2442	2365	1156
35°	405	414	388	385	325	275
45°	106	132	132	132	108	76
55°	17	18	32	19	18	17
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°	19373.8	19373.8	19373.8	19373.8	19373.8
2.5°	19245.4	19232.1	19239.7	19249.2	19253.0
5°	18746.0	18728.0	18724.1	18763.1	18747.0
7.5°	17738.7	17713.0	17674.0	17762.5	17845.2
10°	16051.3	16022.8	15938.1	15980.0	16047.5
12.5°	13560.1	13467.9	13466.0	13599.1	13581.1
15°	10271.9	10148.2	10216.7	10183.4	10165.4
17.5°	6907.5	6860.0	6951.3	6923.7	6804.8
20°	4969.0	4981.4	5155.4	5067.9	4962.4
22.5°	3625.9	3670.6	3877.0	3651.6	3568.9
25°	2414.1	2505.4	2722.3	2441.7	2364.7
27.5°	1484.8	1526.7	1746.4	1465.8	1423.9
30°	923.6	902.7	1006.4	863.7	804.7
32.5°	605.9	579.3	612.6	549.8	502.2
35°	405.2	413.8	388.1	385.2	325.3
37.5°	253.0	291.1	256.8	273.9	209.3
40°	163.6	211.2	181.7	200.7	154.1
42.5°	134.1	162.7	149.3	158.8	137.0
45°	106.5	132.2	132.2	132.2	107.5
47.5°	59.0	88.5	113.2	90.4	62.8
50°	33.3	44.7	87.5	46.6	35.2
52.5°	22.8	25.7	59.9	26.6	23.8
55°	17.1	18.1	32.3	19.0	18.1
57.5°	13.3	14.3	17.1	14.3	13.3
60°	10.5	10.5	12.4	11.4	10.5
62.5°	7.6	7.6	8.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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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