

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: P770315

Luminaire Tested: LD6D70BD010-EU6DR3070959035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770315  
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-EU6DR3070959035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7861.1 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

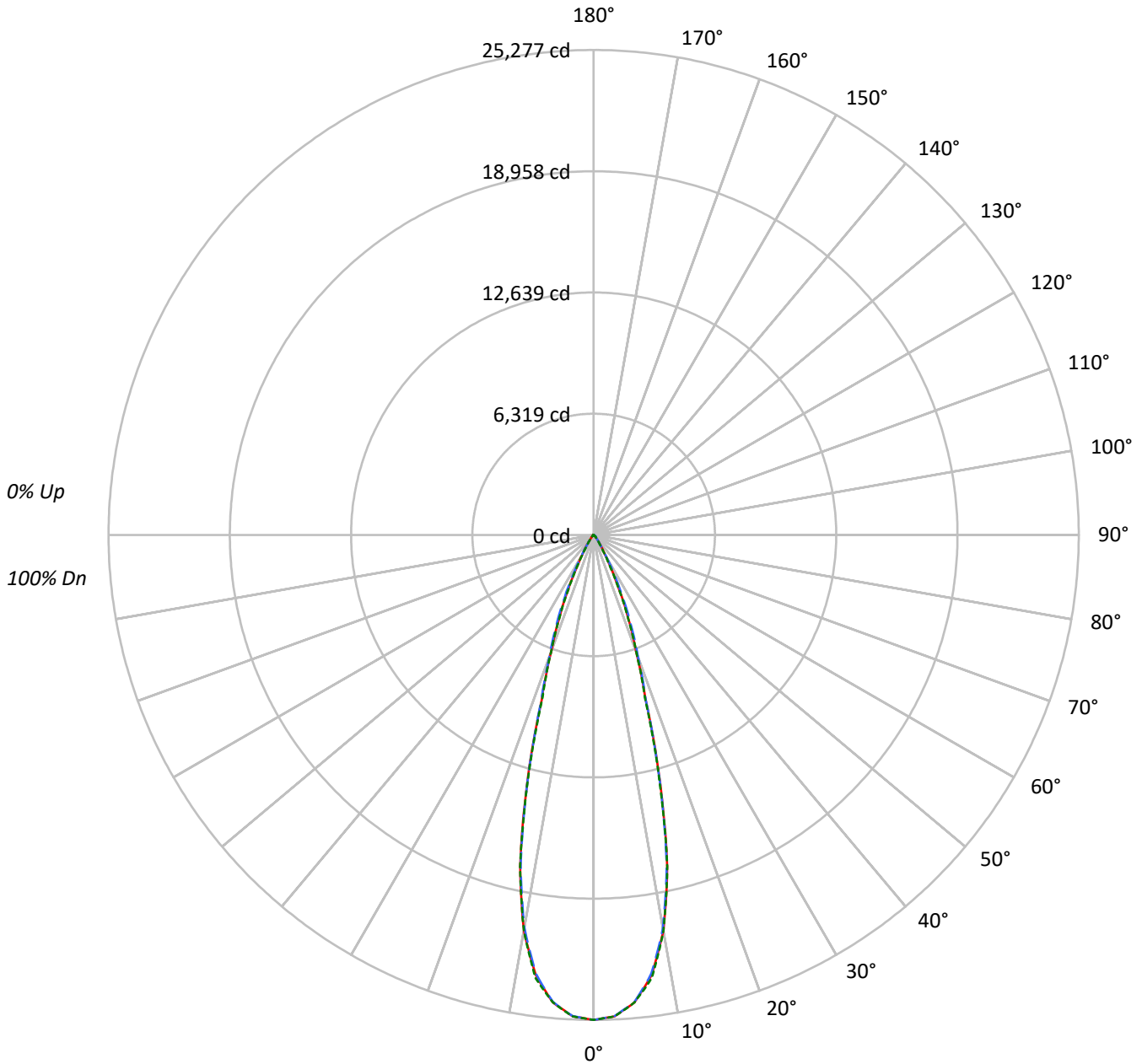
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1934818	1934818	1934818
5°	1879280	1877083	1879372
10°	1627739	1616259	1627350
15°	1062022	1056317	1051007
20°	528094	547904	527385
25°	266020	299972	260565
30°	106504	116049	92795
35°	49403	47310	39657
40°	21333	23681	20084
45°	15047	18673	15176
50°	5168	13599	5466
55°	2976	5632	3149
60°	2097	2465	2097
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 18673 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2222.8	28.3
10°-20°	3579.8	45.5
20°-30°	1546.9	19.7
30°-40°	352.6	4.5
40°-50°	121.1	1.5
50°-60°	29.6	0.4
60°-70°	7.7	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°	7349.5	93.5
0°-40°	7702.0	98.0
0°-60°	7852.7	99.9
0°-90°	7861.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7861.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25277	25277	25277	25277	25277	
5°	24458	24435	24430	24481	24460	2225
15°	13402	13241	13330	13286	13263	3589
25°	3150	3269	3552	3186	3085	1508
35°	529	540	506	503	424	359
45°	139	172	172	172	140	99
55°	22	24	42	25	24	22
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°	25277.4	25277.4	25277.4	25277.4	25277.4
2.5°	25109.9	25092.5	25102.5	25114.9	25119.8
5°	24458.4	24434.8	24429.8	24480.7	24459.6
7.5°	23144.1	23110.6	23059.7	23175.1	23283.1
10°	20942.5	20905.3	20794.8	20849.4	20937.5
12.5°	17692.2	17571.8	17569.4	17743.1	17719.5
15°	13402.0	13240.6	13330.0	13286.5	13263.0
17.5°	9012.4	8950.4	9069.5	9033.5	8878.4
20°	6483.2	6499.3	6726.4	6612.2	6474.5
22.5°	4730.8	4789.2	5058.5	4764.3	4656.4
25°	3149.8	3268.9	3551.8	3185.7	3085.2
27.5°	1937.3	1991.9	2278.5	1912.4	1857.8
30°	1205.0	1177.7	1313.0	1126.9	1049.9
32.5°	790.5	755.8	799.2	717.3	655.3
35°	528.7	539.9	506.3	502.6	424.4
37.5°	330.1	379.8	335.1	357.4	273.0
40°	213.5	275.5	237.0	261.9	201.0
42.5°	175.0	212.2	194.8	207.3	178.7
45°	139.0	172.5	172.5	172.5	140.2
47.5°	76.9	115.4	147.7	117.9	81.9
50°	43.4	58.3	114.2	60.8	45.9
52.5°	29.8	33.5	78.2	34.7	31.0
55°	22.3	23.6	42.2	24.8	23.6
57.5°	17.4	18.6	22.3	18.6	17.4
60°	13.7	13.7	16.1	14.9	13.7
62.5°	9.9	9.9	11.2	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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