

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: P770276

Luminaire Tested: LD6D70BD010-EU6DR3070959024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770276  
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-EU6DR3070959024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6665.9 lumens  
Efficiency: N/A  
Efficacy: 100.1 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

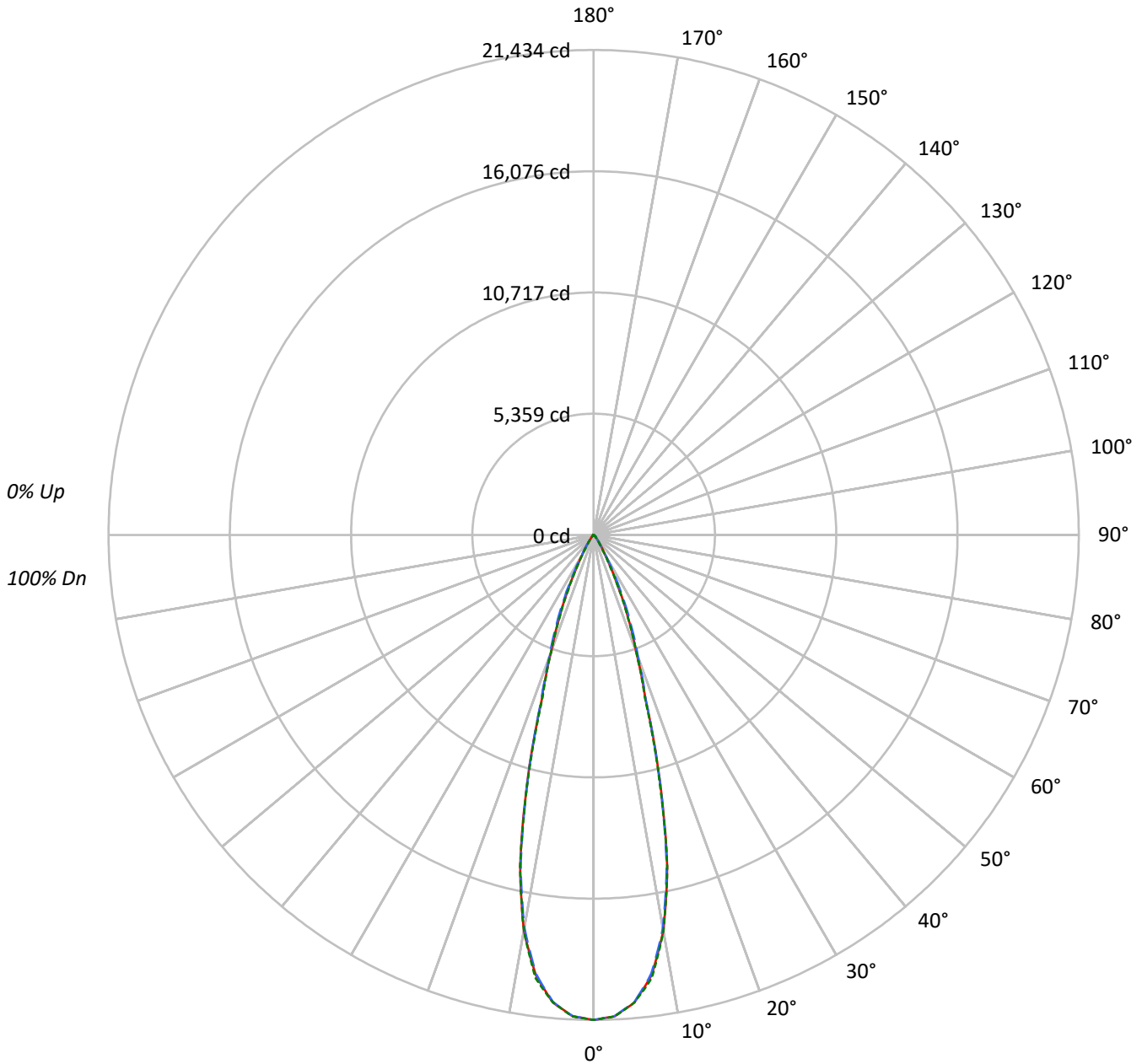
Input Watts (W): 66.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1640646	1640646	1640646
5°	1593543	1591684	1593628
10°	1380250	1370519	1379923
15°	900548	895706	891205
20°	447803	464599	447200
25°	225574	254365	220946
30°	90311	98408	78689
35°	41890	40124	33630
40°	18086	20084	17036
45°	12763	15837	12871
50°	4382	11527	4632
55°	2522	4777	2669
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15837 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1884.8	28.3
10°-20°	3035.5	45.5
20°-30°	1311.7	19.7
30°-40°	299.0	4.5
40°-50°	102.7	1.5
50°-60°	25.1	0.4
60°-70°	6.5	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°	6232.0	93.5
0°-40°	6531.0	98.0
0°-60°	6658.7	99.9
0°-90°	6665.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6665.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21434	21434	21434	21434	21434	
5°	20740	20720	20715	20759	20741	1886
15°	11364	11228	11303	11266	11246	3043
25°	2671	2772	3012	2701	2616	1278
35°	448	458	429	426	360	304
45°	118	146	146	146	119	84
55°	19	20	36	21	20	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°	21434.2	21434.2	21434.2	21434.2	21434.2
2.5°	21292.1	21277.4	21285.8	21296.3	21300.5
5°	20739.6	20719.6	20715.4	20758.6	20740.7
7.5°	19625.2	19596.8	19553.6	19651.5	19743.1
10°	17758.3	17726.8	17633.1	17679.4	17754.1
12.5°	15002.2	14900.2	14898.1	15045.4	15025.4
15°	11364.3	11227.5	11303.2	11266.4	11246.4
17.5°	7642.1	7589.5	7690.5	7660.0	7528.5
20°	5497.5	5511.1	5703.7	5606.9	5490.1
22.5°	4011.5	4061.0	4289.4	4040.0	3948.4
25°	2670.9	2771.9	3011.8	2701.4	2616.1
27.5°	1642.7	1689.0	1932.1	1621.7	1575.4
30°	1021.8	998.7	1113.4	955.5	890.3
32.5°	670.3	640.9	677.7	608.3	555.6
35°	448.3	457.8	429.4	426.2	359.9
37.5°	279.9	322.0	284.1	303.1	231.5
40°	181.0	233.6	201.0	222.0	170.5
42.5°	148.4	180.0	165.2	175.7	151.5
45°	117.9	146.3	146.3	146.3	118.9
47.5°	65.2	97.9	125.2	100.0	69.5
50°	36.8	49.5	96.8	51.6	38.9
52.5°	25.3	28.4	66.3	29.5	26.3
55°	18.9	20.0	35.8	21.0	20.0
57.5°	14.7	15.8	18.9	15.8	14.7
60°	11.6	11.6	13.7	12.6	11.6
62.5°	8.4	8.4	9.5	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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