

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: P770318

Luminaire Tested: LD6D70BD010-EU6DR3070959035-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P770318
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-EU6DR3070959035-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7969.9 lumens
Efficiency: N/A
Efficacy: 119.7 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_{in}): 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

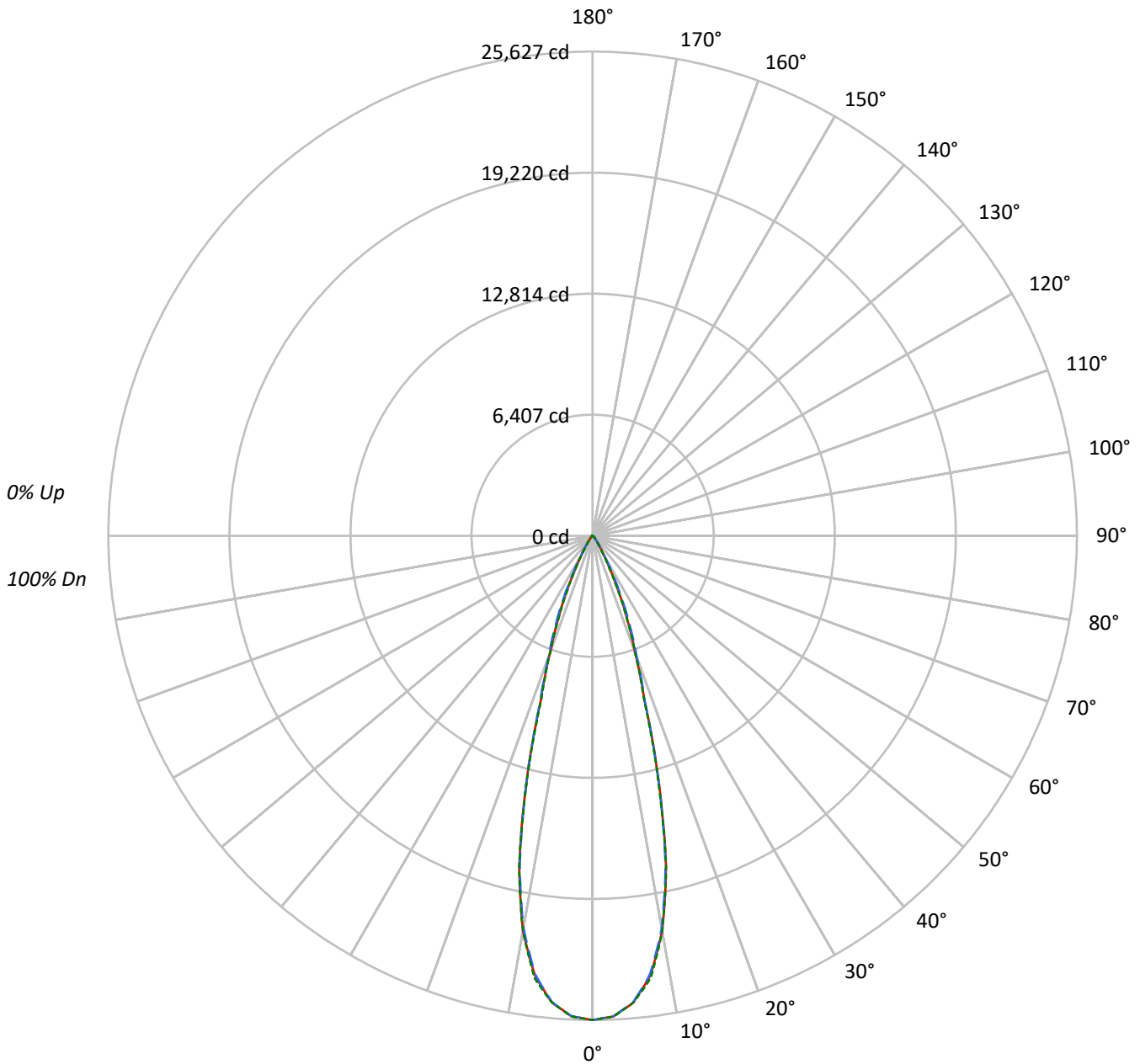


Downlight

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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°	1961593	1961593	1961593
5°	1905281	1903053	1905374
10°	1650264	1638620	1649867
15°	1076714	1070929	1065548
20°	535401	555488	534684
25°	269694	304127	264171
30°	107980	117658	94077
35°	50085	47964	40208
40°	21623	24011	20364
45°	15252	18933	15393
50°	5240	13790	5549
55°	3016	5712	3189
60°	2113	2511	2113
65°	1358	1358	1358
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2253.5	28.3
10°-20°	3629.3	45.5
20°-30°	1568.3	19.7
30°-40°	357.4	4.5
40°-50°	122.7	1.5
50°-60°	30.0	0.4
60°-70°	7.8	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°	7451.2	93.5
0°-40°	7808.6	98.0
0°-60°	7961.3	99.9
0°-90°	7969.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7969.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25627	25627	25627	25627	25627	
5°	24797	24773	24768	24819	24798	2255
15°	13587	13424	13514	13470	13446	3638
25°	3193	3314	3601	3230	3128	1529
35°	536	547	513	510	430	364
45°	141	175	175	175	142	100
55°	23	24	43	25	24	22
65°	8	8	8	8	8	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°	25627.2	25627.2	25627.2	25627.2	25627.2
2.5°	25457.3	25439.7	25449.8	25462.4	25467.4
5°	24796.8	24772.9	24767.8	24819.4	24798.0
7.5°	23464.3	23430.4	23378.8	23495.8	23605.2
10°	21232.3	21194.5	21082.5	21137.9	21227.2
12.5°	17937.0	17815.0	17812.5	17988.6	17964.7
15°	13587.4	13423.8	13514.4	13470.4	13446.5
17.5°	9137.1	9074.2	9195.0	9158.5	9001.2
20°	6572.9	6589.2	6819.5	6703.7	6564.1
22.5°	4796.3	4855.4	5128.5	4830.3	4720.8
25°	3193.3	3314.1	3601.0	3229.8	3127.9
27.5°	1964.1	2019.4	2310.1	1938.9	1883.5
30°	1221.7	1194.0	1331.2	1142.5	1064.4
32.5°	801.5	766.2	810.3	727.2	664.3
35°	536.0	547.3	513.3	509.6	430.3
37.5°	334.7	385.0	339.7	362.4	276.8
40°	216.4	279.3	240.3	265.5	203.8
42.5°	177.4	215.2	197.5	210.1	181.2
45°	140.9	174.9	174.9	174.9	142.2
47.5°	78.0	117.0	149.7	119.5	83.0
50°	44.0	59.1	115.8	61.7	46.6
52.5°	30.2	34.0	79.3	35.2	31.5
55°	22.6	23.9	42.8	25.2	23.9
57.5°	17.6	18.9	22.6	18.9	17.6
60°	13.8	13.8	16.4	15.1	13.8
62.5°	10.1	10.1	11.3	10.1	10.1
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	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

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

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