

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: P771835

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771835
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: LD6D80BD010-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: 7214.7 lumens
Efficiency: N/A
Efficacy: 91.4 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

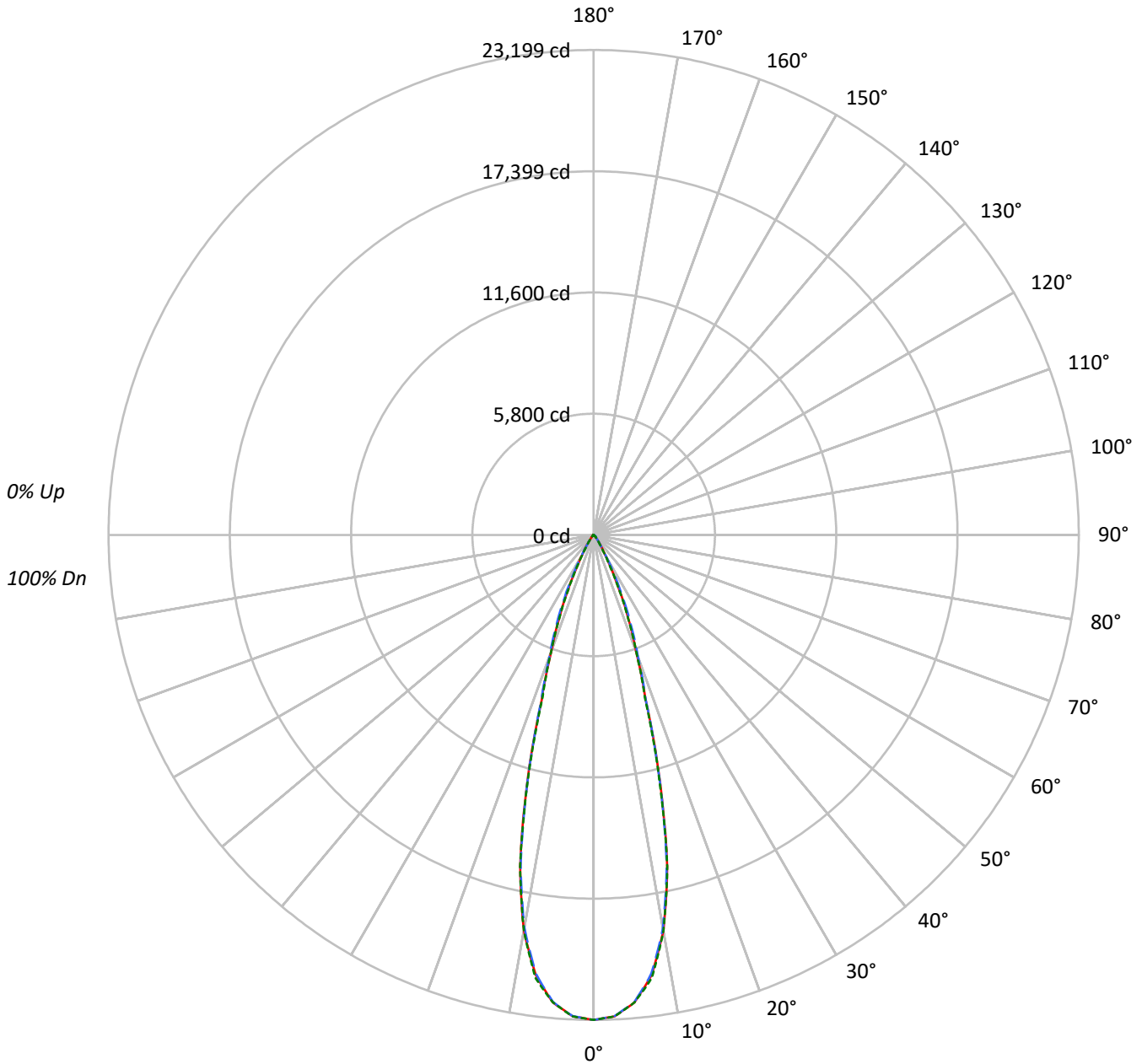
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1775715	1775715	1775715
5°	1724740	1722727	1724825
10°	1493890	1483351	1493533
15°	974688	969450	964576
20°	484670	502851	484018
25°	244138	275311	239138
30°	97753	106504	85167
35°	45338	43423	36396
40°	19574	21733	18435
45°	13813	17136	13932
50°	4751	12480	5013
55°	2736	5164	2883
60°	1914	2266	1914
65°	1232	1232	1232
70°	761	515	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: 17136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2040.0	28.3
10°-20°	3285.4	45.5
20°-30°	1419.7	19.7
30°-40°	323.6	4.5
40°-50°	111.1	1.5
50°-60°	27.1	0.4
60°-70°	7.0	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°	6745.1	93.5
0°-40°	7068.7	98.0
0°-60°	7206.9	99.9
0°-90°	7214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7214.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23199	23199	23199	23199	23199	
5°	22447	22426	22421	22468	22448	2042
15°	12300	12152	12234	12194	12172	3293
25°	2891	3000	3260	2924	2832	1384
35°	485	496	465	461	390	329
45°	128	158	158	158	129	91
55°	20	22	39	23	22	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°	23198.8	23198.8	23198.8	23198.8	23198.8
2.5°	23045.1	23029.1	23038.2	23049.6	23054.2
5°	22447.1	22425.5	22420.9	22467.6	22448.2
7.5°	21240.9	21210.2	21163.5	21269.4	21368.5
10°	19220.4	19186.2	19084.8	19134.9	19215.8
12.5°	16237.4	16126.9	16124.6	16284.1	16262.4
15°	12299.9	12151.8	12233.8	12194.0	12172.3
17.5°	8271.3	8214.4	8323.7	8290.7	8148.3
20°	5950.1	5964.9	6173.3	6068.5	5942.1
22.5°	4341.8	4395.3	4642.5	4372.6	4273.5
25°	2890.7	3000.1	3259.8	2923.8	2831.5
27.5°	1778.0	1828.1	2091.2	1755.2	1705.1
30°	1106.0	1080.9	1205.0	1034.2	963.6
32.5°	725.5	693.6	733.5	658.3	601.4
35°	485.2	495.5	464.7	461.3	389.5
37.5°	303.0	348.5	307.5	328.0	250.6
40°	195.9	252.9	217.5	240.3	184.5
42.5°	160.6	194.8	178.8	190.2	164.0
45°	127.6	158.3	158.3	158.3	128.7
47.5°	70.6	105.9	135.5	108.2	75.2
50°	39.9	53.5	104.8	55.8	42.1
52.5°	27.3	30.8	71.8	31.9	28.5
55°	20.5	21.6	38.7	22.8	21.6
57.5°	15.9	17.1	20.5	17.1	15.9
60°	12.5	12.5	14.8	13.7	12.5
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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





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

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