

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: P771839

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771839
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-EU6DR3070959024-6LBS1MW
Description: 6 INCH ROUND SHALLOW 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: 8092.5 lumens
Efficiency: N/A
Efficacy: 102.6 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

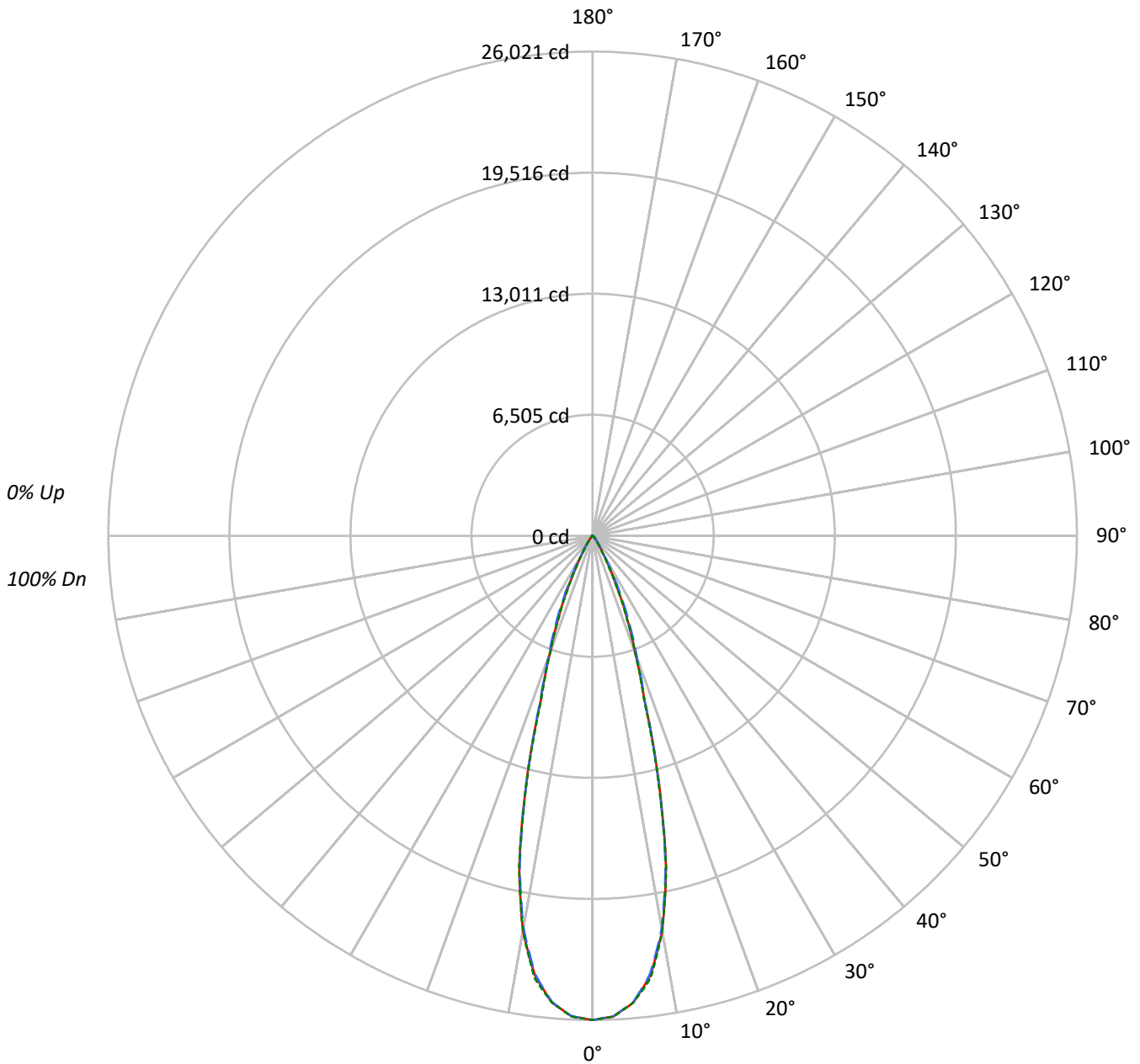


Downlight

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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°	1991743	1991743	1991743
5°	1934564	1932312	1934663
10°	1675625	1663811	1675229
15°	1093268	1087396	1081928
20°	543628	564024	542903
25°	273841	308798	268233
30°	109641	119461	95526
35°	50851	48702	40825
40°	21952	24381	20684
45°	15490	19225	15631
50°	5323	13992	5633
55°	3069	5792	3243
60°	2159	2541	2159
65°	1395	1395	1395
70°	850	582	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: 19225 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2288.2	28.3
10°-20°	3685.1	45.5
20°-30°	1592.4	19.7
30°-40°	362.9	4.5
40°-50°	124.6	1.5
50°-60°	30.5	0.4
60°-70°	7.9	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°	7565.7	93.5
0°-40°	7928.6	98.0
0°-60°	8083.7	99.9
0°-90°	8092.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8092.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26021	26021	26021	26021	26021	
5°	25178	25154	25149	25201	25179	2290
15°	13796	13630	13722	13677	13653	3694
25°	3242	3365	3656	3280	3176	1552
35°	544	556	521	517	437	369
45°	143	178	178	178	144	102
55°	23	24	43	26	24	22
65°	8	8	8	8	8	8
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°	26021.1	26021.1	26021.1	26021.1	26021.1
2.5°	25848.6	25830.8	25841.0	25853.8	25858.9
5°	25177.9	25153.7	25148.6	25200.9	25179.2
7.5°	23825.0	23790.5	23738.1	23857.0	23968.1
10°	21558.6	21520.3	21406.6	21462.8	21553.5
12.5°	18212.7	18088.8	18086.3	18265.1	18240.8
15°	13796.3	13630.2	13722.2	13677.4	13653.2
17.5°	9277.6	9213.7	9336.3	9299.3	9139.6
20°	6673.9	6690.5	6924.3	6806.8	6665.0
22.5°	4870.0	4930.1	5207.3	4904.5	4793.4
25°	3242.4	3365.1	3656.3	3279.5	3176.0
27.5°	1994.3	2050.5	2345.6	1968.7	1912.5
30°	1240.5	1212.4	1351.6	1160.0	1080.8
32.5°	813.8	778.0	822.7	738.4	674.5
35°	544.2	555.7	521.2	517.4	436.9
37.5°	339.8	390.9	344.9	367.9	281.1
40°	219.7	283.6	244.0	269.6	207.0
42.5°	180.1	218.5	200.6	213.4	184.0
45°	143.1	177.6	177.6	177.6	144.4
47.5°	79.2	118.8	152.0	121.4	84.3
50°	44.7	60.0	117.5	62.6	47.3
52.5°	30.7	34.5	80.5	35.8	31.9
55°	23.0	24.3	43.4	25.6	24.3
57.5°	17.9	19.2	23.0	19.2	17.9
60°	14.1	14.1	16.6	15.3	14.1
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	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

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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