

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: P771838

Luminaire Tested: LD6D80BD010-EU6DR3070959024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771838
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-EU6DR3070959024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8939.1 lumens
Efficiency: N/A
Efficacy: 113.3 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

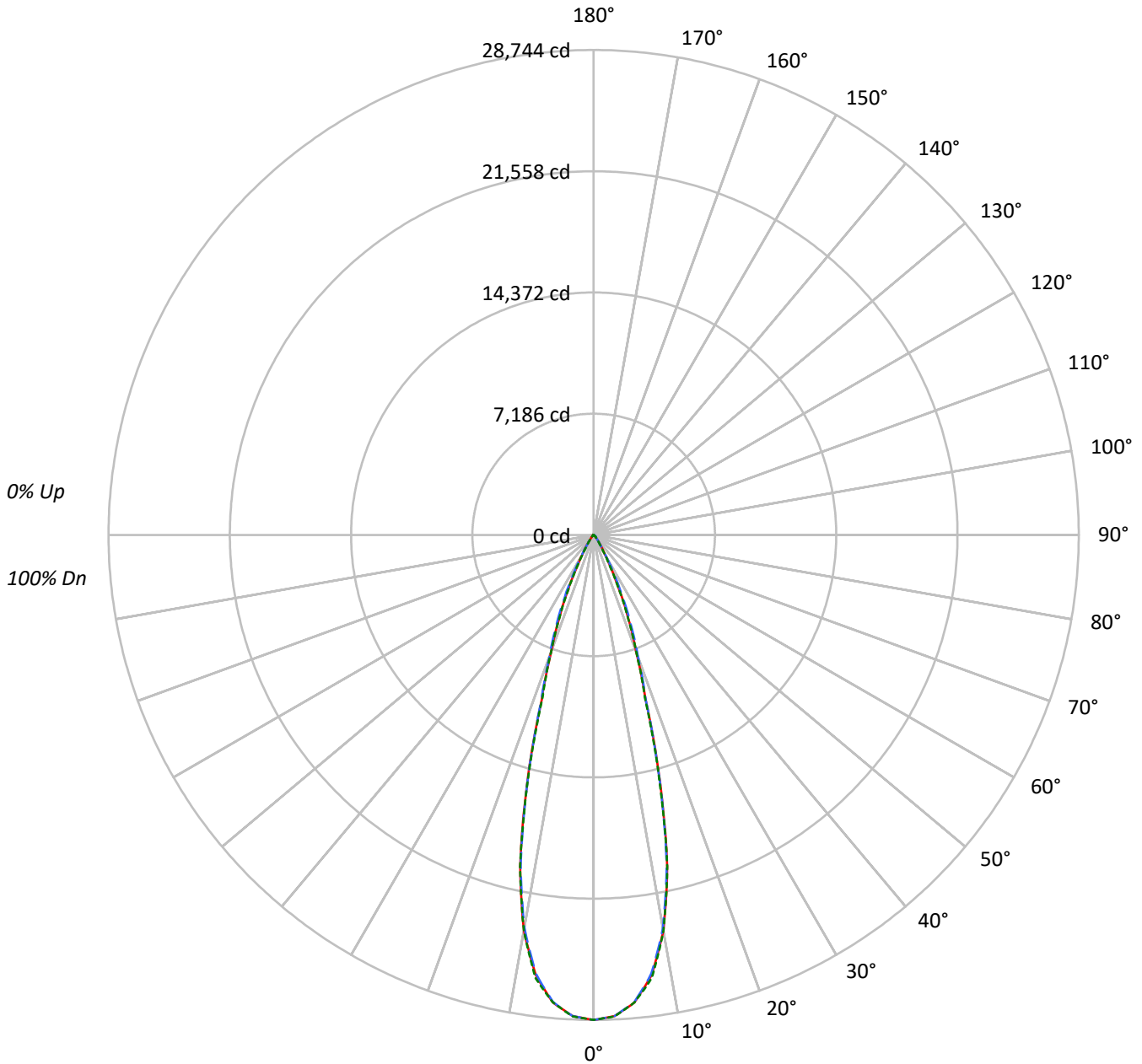
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2200125	2200125	2200125
5°	2136964	2134467	2137072
10°	1850932	1837882	1850497
15°	1207640	1201158	1195120
20°	600508	623039	599702
25°	302489	341111	296298
30°	121114	131967	105522
35°	56177	53804	45095
40°	24251	26929	22842
45°	17114	21238	17266
50°	5883	15457	6216
55°	3390	6406	3576
60°	2373	2801	2373
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2527.6	28.3
10°-20°	4070.7	45.5
20°-30°	1759.0	19.7
30°-40°	400.9	4.5
40°-50°	137.7	1.5
50°-60°	33.6	0.4
60°-70°	8.7	0.1
70°-80°	0.9	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°	8357.2	93.5
0°-40°	8758.2	98.0
0°-60°	8929.5	99.9
0°-90°	8939.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8939.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28744	28744	28744	28744	28744	
5°	27812	27785	27780	27838	27814	2530
15°	15240	15056	15158	15108	15082	4081
25°	3582	3717	4039	3623	3508	1714
35°	601	614	576	572	483	408
45°	158	196	196	196	160	112
55°	25	27	48	28	27	25
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°	28743.5	28743.5	28743.5	28743.5	28743.5
2.5°	28553.0	28533.2	28544.5	28558.6	28564.3
5°	27812.1	27785.3	27779.6	27837.5	27813.5
7.5°	26317.6	26279.5	26221.7	26352.9	26475.7
10°	23814.1	23771.8	23646.2	23708.3	23808.5
12.5°	20118.2	19981.3	19978.5	20176.0	20149.2
15°	15239.6	15056.2	15157.8	15108.4	15081.6
17.5°	10248.2	10177.6	10313.1	10272.2	10095.8
20°	7372.2	7390.5	7648.8	7518.9	7362.3
22.5°	5379.5	5445.9	5752.1	5417.6	5294.9
25°	3581.6	3717.1	4038.9	3622.6	3508.3
27.5°	2202.9	2265.0	2591.0	2174.7	2112.6
30°	1370.3	1339.2	1493.1	1281.4	1193.9
32.5°	898.9	859.4	908.8	815.7	745.1
35°	601.2	613.9	575.8	571.5	482.6
37.5°	375.4	431.8	381.0	406.4	310.5
40°	242.7	313.3	269.5	297.8	228.6
42.5°	199.0	241.3	221.6	235.7	203.2
45°	158.1	196.2	196.2	196.2	159.5
47.5°	87.5	131.2	167.9	134.1	93.1
50°	49.4	66.3	129.8	69.1	52.2
52.5°	33.9	38.1	88.9	39.5	35.3
55°	25.4	26.8	48.0	28.2	26.8
57.5°	19.8	21.2	25.4	21.2	19.8
60°	15.5	15.5	18.3	16.9	15.5
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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