

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: CORELITE

Report Number: P601141

Luminaire Tested: 22D3X-LP-80-L835

Issue Date: 10/5/2023

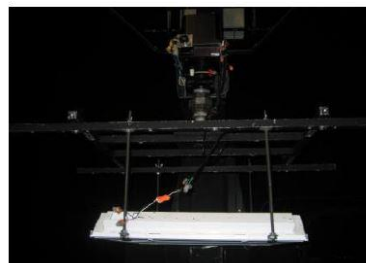
Test Information

Test Method: LM-79-2019
Report Number: P601141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-80-L835
Description: 2x2 D3X-LP AT 8000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

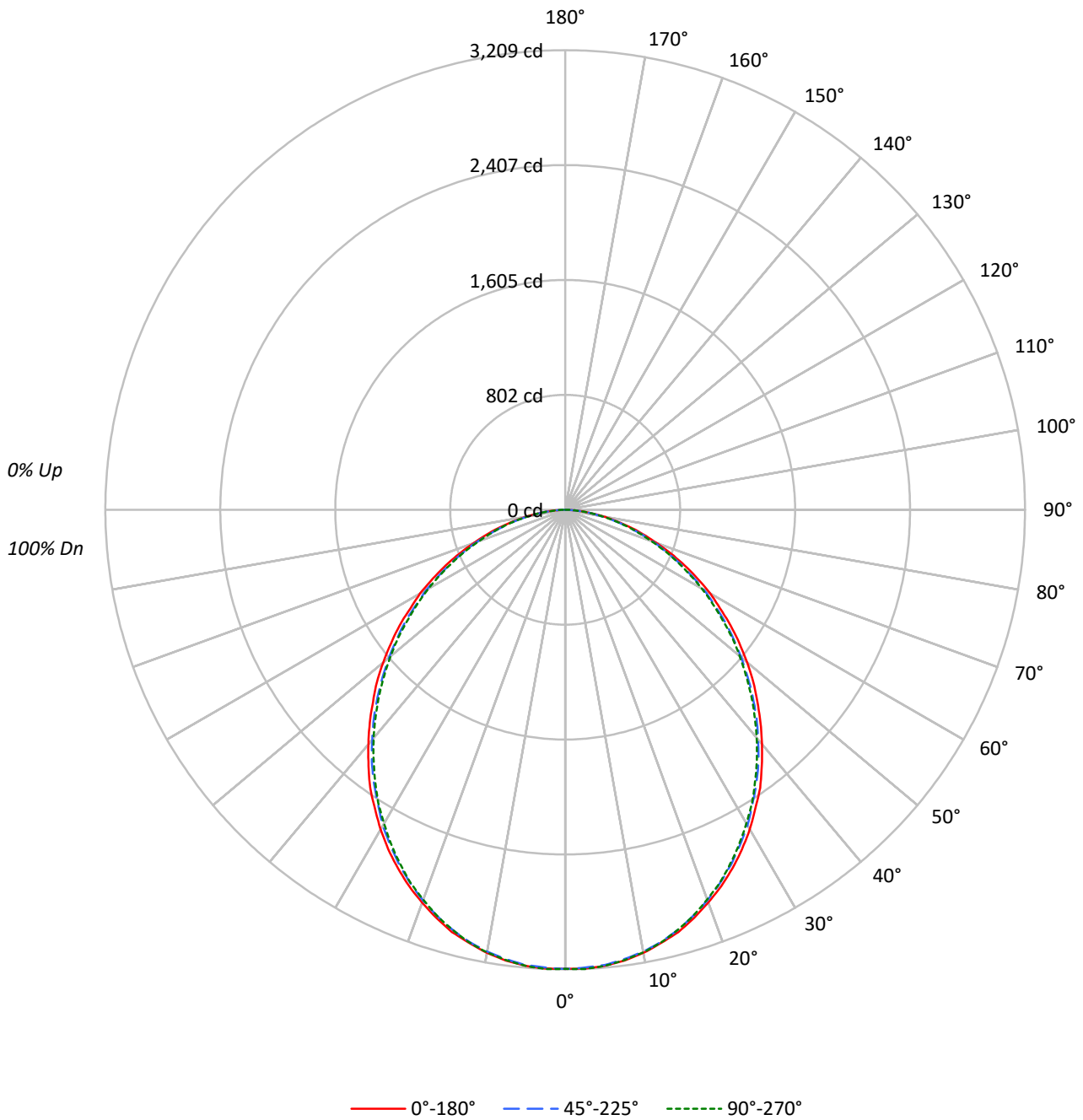
Lumens per Lamp: N/A
Luminaire Lumens: 8011.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): 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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8627	8627	8627
5°	8634	8616	8634
10°	8585	8559	8576
15°	8504	8460	8460
20°	8357	8312	8294
25°	8201	8125	8096
30°	8007	7907	7858
35°	7794	7647	7594
40°	7504	7358	7302
45°	7218	7048	6987
50°	6938	6710	6657
55°	6621	6381	6292
60°	6289	6015	5929
65°	5855	5571	5510
70°	5351	5150	5024
75°	4880	4581	4614
80°	4206	3958	4007
85°	3254	3155	2958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	3.8
10°-20°	856.3	10.7
20°-30°	1261.1	15.7
30°-40°	1458.8	18.2
40°-50°	1434.2	17.9
50°-60°	1222.3	15.3
60°-70°	875.8	10.9
70°-80°	475.6	5.9
80°-90°	124.1	1.5
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°	2420.2	30.2
0°-40°	3879.0	48.4
0°-60°	6535.5	81.6
0°-90°	8011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3206	3206	3206	3206	3206	
5°	3196	3190	3190	3190	3196	303
15°	3052	3040	3037	3033	3037	859
25°	2762	2749	2736	2730	2727	1271
35°	2372	2353	2328	2315	2312	1479
45°	1897	1884	1852	1836	1836	1465
55°	1411	1386	1360	1344	1341	1260
65°	920	900	875	865	865	911
75°	469	453	441	434	444	496
85°	105	105	102	99	96	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3205.8	3205.8	3205.8	3205.8	<i>3205.8</i>
2.5°	<i>3205.8</i>	<i>3202.6</i>	<i>3199.4</i>	<i>3202.6</i>	<i>3209.0</i>
5°	3196.2	3189.8	3189.8	3189.8	<i>3196.2</i>
7.5°	3173.9	3167.5	3164.3	3167.5	<i>3170.7</i>
10°	3141.9	3135.6	3132.4	3135.6	<i>3138.7</i>
12.5°	3097.2	3094.0	3090.9	3090.9	<i>3094.0</i>
15°	3052.5	3039.8	3036.6	3033.4	<i>3036.6</i>
17.5°	2988.7	2985.5	2972.7	2972.7	<i>2972.7</i>
20°	2918.4	2912.0	2902.5	2896.1	<i>2896.1</i>
22.5°	2845.0	2838.6	2822.6	2816.3	<i>2819.4</i>
25°	2762.0	2749.2	2736.4	2730.0	<i>2726.8</i>
27.5°	2672.6	2659.8	2640.6	2631.1	<i>2631.1</i>
30°	2576.8	2567.2	2544.8	2532.1	<i>2528.9</i>
32.5°	2471.4	2465.0	2433.1	2426.7	<i>2426.7</i>
35°	2372.4	2353.3	2327.7	2314.9	<i>2311.8</i>
37.5°	2254.3	2241.5	2216.0	2200.0	<i>2196.8</i>
40°	2136.1	2120.2	2094.6	2081.9	<i>2078.7</i>
42.5°	2018.0	2002.0	1976.5	1960.5	<i>1957.3</i>
45°	1896.7	1883.9	1852.0	1836.0	<i>1836.0</i>
47.5°	1781.7	1756.2	1727.4	1714.7	<i>1711.5</i>
50°	1657.2	1634.8	1602.9	1590.1	<i>1590.1</i>
52.5°	1532.7	1516.7	1481.6	1475.2	<i>1468.8</i>
55°	1411.3	1385.8	1360.2	1344.3	<i>1341.1</i>
57.5°	1280.4	1258.1	1232.5	1219.7	<i>1219.7</i>
60°	1168.6	1139.9	1117.6	1101.6	<i>1101.6</i>
62.5°	1040.9	1015.4	993.0	983.5	<i>980.3</i>
65°	919.6	900.4	874.9	865.3	<i>865.3</i>
67.5°	798.3	782.3	759.9	750.4	<i>753.6</i>
70°	680.1	670.5	654.6	641.8	<i>638.6</i>
72.5°	571.6	558.8	542.8	539.6	<i>539.6</i>
75°	469.4	453.4	440.6	434.3	<i>443.8</i>
77.5°	364.0	354.4	348.0	344.8	<i>348.0</i>
80°	271.4	258.6	255.4	258.6	<i>258.6</i>
82.5°	188.4	182.0	178.8	178.8	<i>178.8</i>
85°	105.4	105.4	102.2	99.0	<i>95.8</i>
87.5°	41.5	41.5	44.7	44.7	<i>47.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)