

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: P601123

Luminaire Tested: 22D3X-LP-55-L835

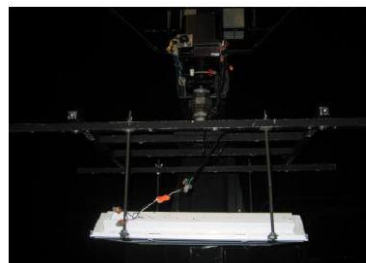
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601123  
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-55-L835  
Description: 2x2 D3X-LP AT 5500LM 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

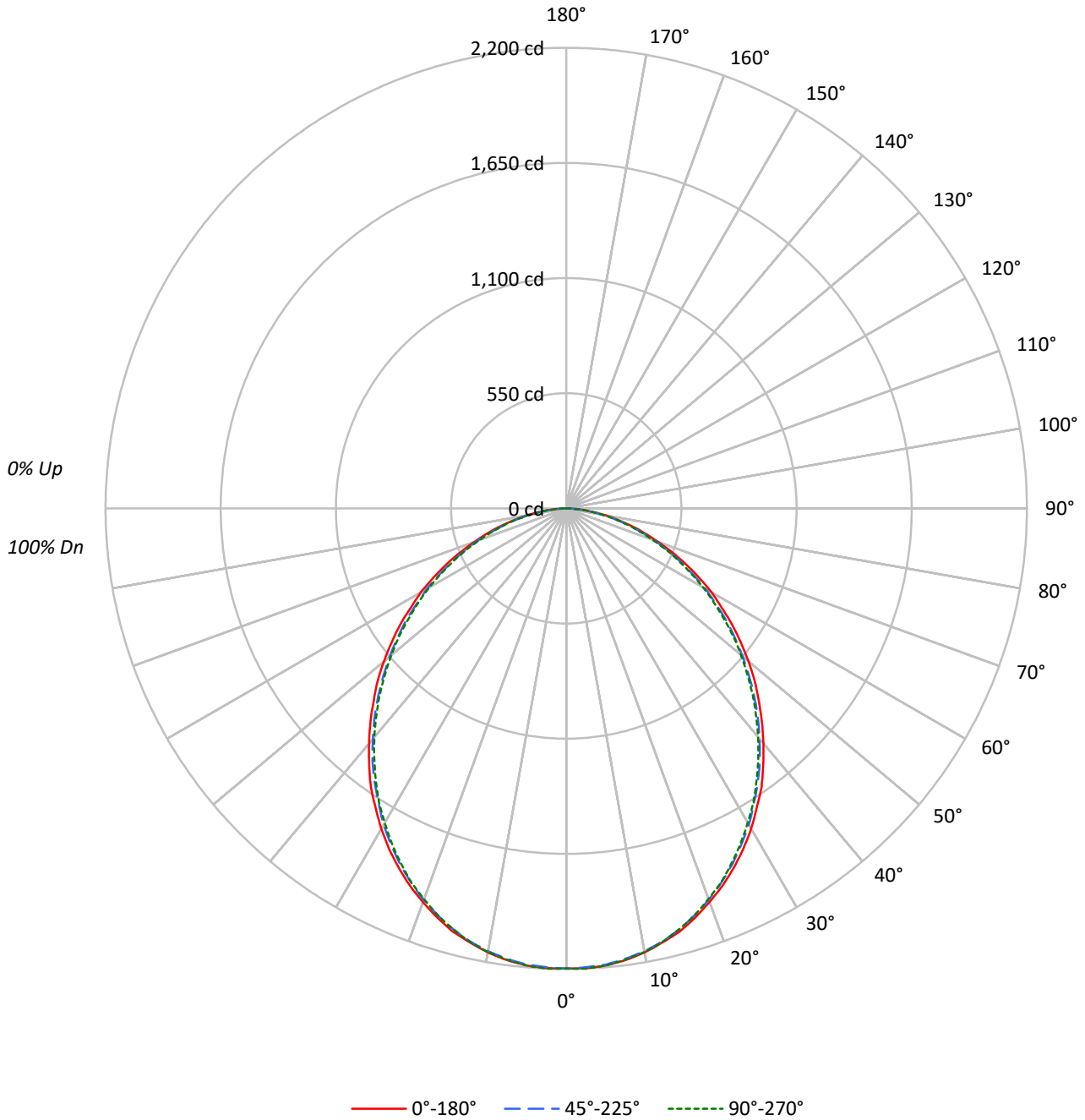
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5492.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 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): 45.4  
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°	5914	5914	5914
5°	5919	5907	5919
10°	5886	5868	5880
15°	5830	5799	5799
20°	5730	5698	5686
25°	5622	5570	5551
30°	5489	5421	5387
35°	5343	5242	5206
40°	5144	5044	5006
45°	4948	4832	4790
50°	4756	4600	4564
55°	4539	4375	4313
60°	4312	4124	4064
65°	4014	3819	3777
70°	3669	3530	3445
75°	3346	3141	3164
80°	2884	2713	2748
85°	2229	2161	2029

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4948 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	3.8
10°-20°	587.0	10.7
20°-30°	864.6	15.7
30°-40°	1000.1	18.2
40°-50°	983.2	17.9
50°-60°	837.9	15.3
60°-70°	600.4	10.9
70°-80°	326.1	5.9
80°-90°	85.1	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°	1659.2	30.2
0°-40°	2659.3	48.4
0°-60°	4480.4	81.6
0°-90°	5492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2191	2187	2187	2187	2191	208
15°	2093	2084	2082	2080	2082	589
25°	1894	1885	1876	1872	1869	872
35°	1626	1613	1596	1587	1585	1014
45°	1300	1292	1270	1259	1259	1004
55°	968	950	932	922	919	864
65°	630	617	600	593	593	624
75°	322	311	302	298	304	340
85°	72	72	70	68	66	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2197.8	2197.8	2197.8	2197.8	2197.8
2.5°	2197.8	2195.6	2193.4	2195.6	2200.0
5°	2191.2	2186.8	2186.8	2186.8	2191.2
7.5°	2175.9	2171.5	2169.3	2171.5	2173.7
10°	2154.0	2149.6	2147.4	2149.6	2151.8
12.5°	2123.3	2121.1	2119.0	2119.0	2121.1
15°	2092.7	2083.9	2081.7	2079.6	2081.7
17.5°	2048.9	2046.7	2038.0	2038.0	2038.0
20°	2000.8	1996.4	1989.8	1985.4	1985.4
22.5°	1950.4	1946.0	1935.1	1930.7	1932.9
25°	1893.5	1884.7	1876.0	1871.6	1869.4
27.5°	1832.2	1823.4	1810.3	1803.7	1803.7
30°	1766.5	1760.0	1744.6	1735.9	1733.7
32.5°	1694.3	1689.9	1668.0	1663.6	1663.6
35°	1626.4	1613.3	1595.8	1587.0	1584.8
37.5°	1545.4	1536.7	1519.2	1508.2	1506.0
40°	1464.4	1453.5	1436.0	1427.2	1425.0
42.5°	1383.5	1372.5	1355.0	1344.0	1341.9
45°	1300.3	1291.5	1269.6	1258.7	1258.7
47.5°	1221.5	1204.0	1184.3	1175.5	1173.3
50°	1136.1	1120.8	1098.9	1090.1	1090.1
52.5°	1050.7	1039.8	1015.7	1011.3	1006.9
55°	967.5	950.0	932.5	921.6	919.4
57.5°	877.8	862.5	845.0	836.2	836.2
60°	801.2	781.5	766.2	755.2	755.2
62.5°	713.6	696.1	680.8	674.2	672.0
65°	630.4	617.3	599.8	593.2	593.2
67.5°	547.3	536.3	521.0	514.4	516.6
70°	466.3	459.7	448.7	440.0	437.8
72.5°	391.8	383.1	372.1	369.9	369.9
75°	321.8	310.8	302.1	297.7	304.3
77.5°	249.5	243.0	238.6	236.4	238.6
80°	186.1	177.3	175.1	177.3	177.3
82.5°	129.2	124.8	122.6	122.6	122.6
85°	72.2	72.2	70.0	67.9	65.7
87.5°	28.5	28.5	30.6	30.6	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)