

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: P601124

Luminaire Tested: 22D3X-LP-55-L840

Issue Date: 10/5/2023

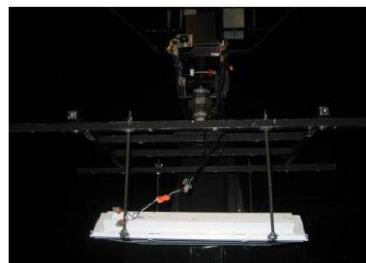
Test Information

Test Method: LM-79-2019
Report Number: P601124
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-L840
Description: 2x2 D3X-LP AT 5500LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

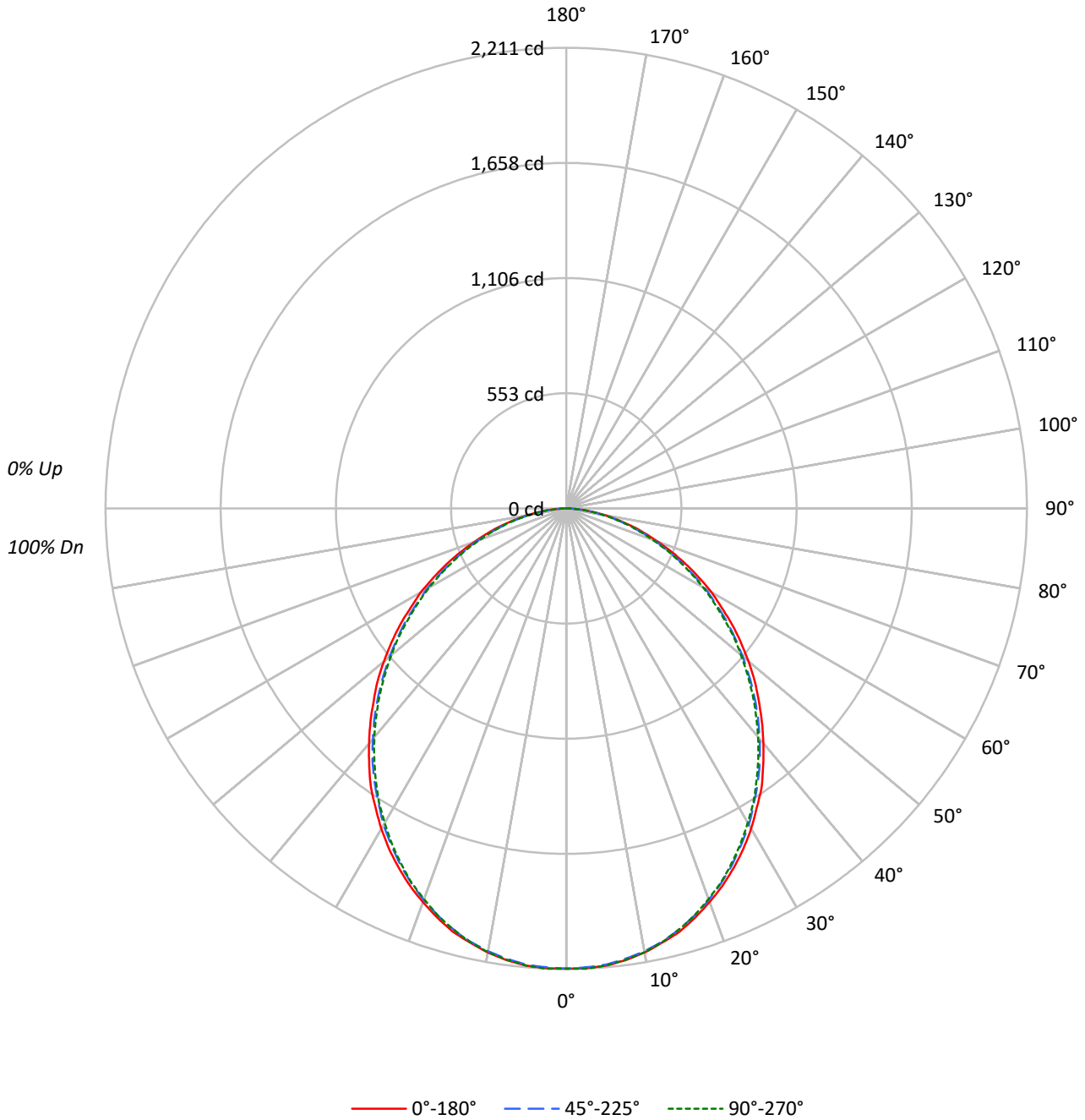
Lumens per Lamp: N/A
Luminaire Lumens: 5520.0 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	0
RW	70	50	30	10	70	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	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°	5944	5944	5944
5°	5949	5937	5949
10°	5916	5898	5910
15°	5860	5829	5829
20°	5759	5727	5715
25°	5651	5598	5579
30°	5517	5449	5414
35°	5370	5269	5233
40°	5171	5070	5031
45°	4974	4856	4814
50°	4780	4624	4587
55°	4563	4397	4335
60°	4334	4145	4085
65°	4034	3838	3796
70°	3687	3548	3462
75°	3362	3157	3179
80°	2898	2727	2762
85°	2242	2174	2038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	3.8
10°-20°	590.0	10.7
20°-30°	868.9	15.7
30°-40°	1005.2	18.2
40°-50°	988.2	17.9
50°-60°	842.2	15.3
60°-70°	603.5	10.9
70°-80°	327.7	5.9
80°-90°	85.5	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°	1667.6	30.2
0°-40°	2672.8	48.4
0°-60°	4503.3	81.6
0°-90°	5520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2202	2198	2198	2198	2202	209
15°	2103	2095	2092	2090	2092	592
25°	1903	1894	1886	1881	1879	876
35°	1635	1622	1604	1595	1593	1019
45°	1307	1298	1276	1265	1265	1010
55°	972	955	937	926	924	868
65°	634	620	603	596	596	628
75°	323	312	304	299	306	342
85°	73	73	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°	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	2209.0	2206.8	2204.6	2206.8	2211.2
5°	2202.4	2198.0	2198.0	2198.0	2202.4
7.5°	2187.0	2182.6	2180.4	2182.6	2184.8
10°	2165.0	2160.6	2158.4	2160.6	2162.8
12.5°	2134.2	2132.0	2129.8	2129.8	2132.0
15°	2103.4	2094.6	2092.4	2090.2	2092.4
17.5°	2059.4	2057.2	2048.4	2048.4	2048.4
20°	2011.0	2006.6	2000.0	1995.6	1995.6
22.5°	1960.3	1955.9	1944.9	1940.5	1942.7
25°	1903.1	1894.3	1885.5	1881.1	1878.9
27.5°	1841.5	1832.7	1819.5	1812.9	1812.9
30°	1775.5	1768.9	1753.5	1744.7	1742.5
32.5°	1702.9	1698.5	1676.5	1672.1	1672.1
35°	1634.7	1621.5	1603.9	1595.1	1592.9
37.5°	1553.3	1544.5	1526.9	1515.9	1513.7
40°	1471.9	1460.9	1443.3	1434.5	1432.3
42.5°	1390.5	1379.5	1361.9	1350.9	1348.7
45°	1306.9	1298.1	1276.1	1265.1	1265.1
47.5°	1227.7	1210.1	1190.3	1181.5	1179.3
50°	1141.9	1126.5	1104.5	1095.7	1095.7
52.5°	1056.1	1045.1	1020.9	1016.5	1012.1
55°	972.5	954.9	937.3	926.3	924.1
57.5°	882.3	866.9	849.3	840.5	840.5
60°	805.3	785.5	770.1	759.1	759.1
62.5°	717.3	699.7	684.3	677.7	675.5
65°	633.6	620.4	602.8	596.2	596.2
67.5°	550.0	539.0	523.6	517.0	519.2
70°	468.6	462.0	451.0	442.2	440.0
72.5°	393.8	385.0	374.0	371.8	371.8
75°	323.4	312.4	303.6	299.2	305.8
77.5°	250.8	244.2	239.8	237.6	239.8
80°	187.0	178.2	176.0	178.2	178.2
82.5°	129.8	125.4	123.2	123.2	123.2
85°	72.6	72.6	70.4	68.2	66.0
87.5°	28.6	28.6	30.8	30.8	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)