

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: P601117

Luminaire Tested: 22D3X-LP-50-L835

Issue Date: 10/5/2023

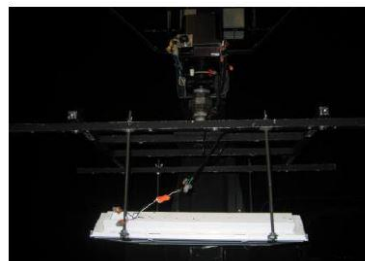
Test Information

Test Method: LM-79-2019
Report Number: P601117
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-50-L835
Description: 2x2 D3X-LP AT 5000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

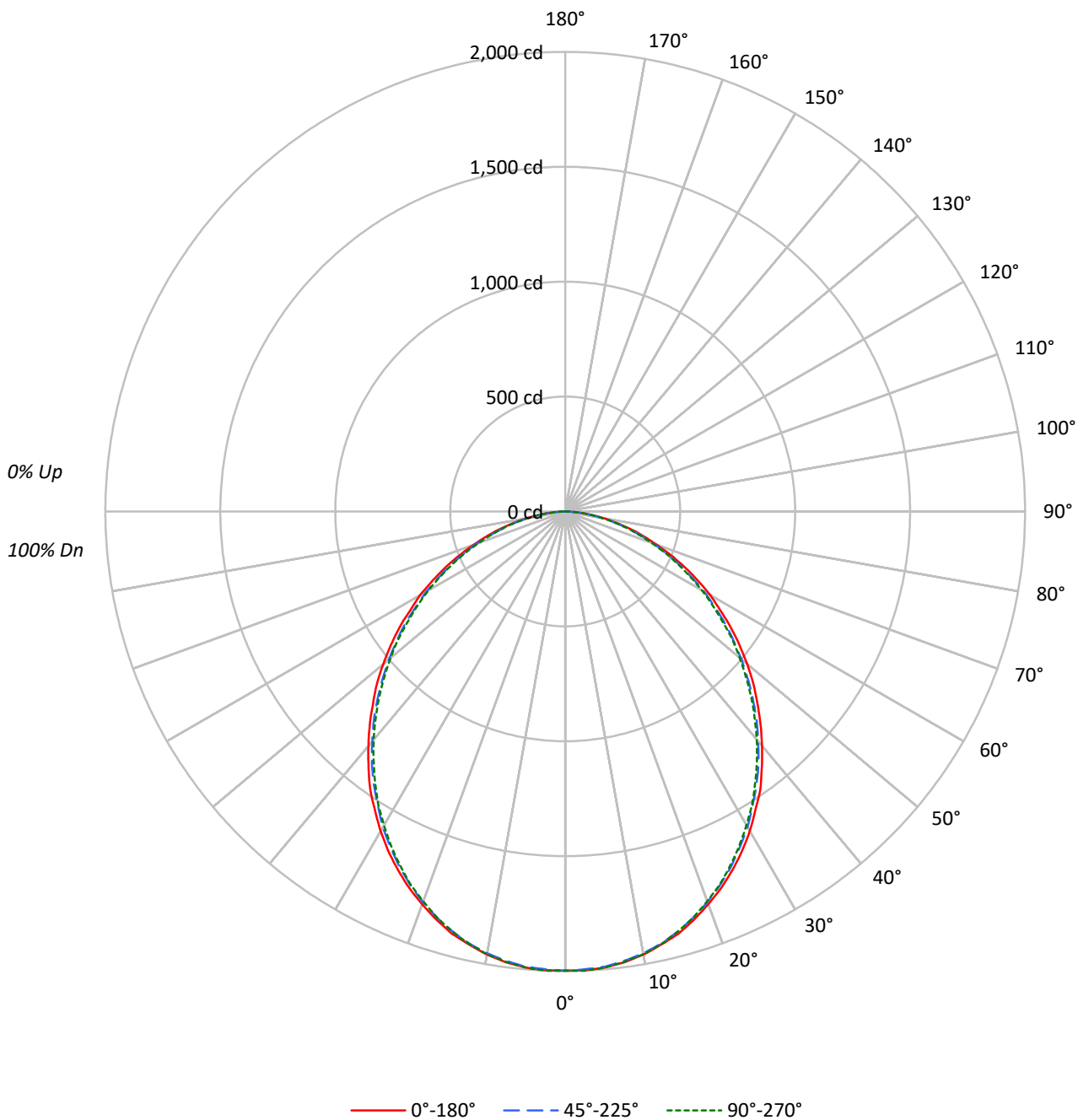
Lumens per Lamp: N/A
Luminaire Lumens: 4993.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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°	5377	5377	5377
5°	5381	5370	5381
10°	5351	5335	5346
15°	5300	5273	5273
20°	5209	5180	5169
25°	5111	5064	5046
30°	4990	4928	4898
35°	4858	4766	4733
40°	4677	4586	4551
45°	4499	4393	4355
50°	4324	4182	4149
55°	4127	3978	3921
60°	3920	3749	3695
65°	3650	3472	3434
70°	3335	3210	3131
75°	3041	2855	2876
80°	2622	2467	2498
85°	2029	1967	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	3.8
10°-20°	533.7	10.7
20°-30°	786.0	15.7
30°-40°	909.2	18.2
40°-50°	893.9	17.9
50°-60°	761.8	15.3
60°-70°	545.9	10.9
70°-80°	296.4	5.9
80°-90°	77.3	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°	1508.4	30.2
0°-40°	2417.7	48.4
0°-60°	4073.4	81.6
0°-90°	4993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	1992	1988	1988	1988	1992	189
15°	1902	1895	1893	1891	1893	535
25°	1721	1714	1706	1702	1700	792
35°	1479	1467	1451	1443	1441	922
45°	1182	1174	1154	1144	1144	913
55°	880	864	848	838	836	785
65°	573	561	545	539	539	568
75°	292	283	275	271	277	309
85°	66	66	64	62	60	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1998.1	1998.1	1998.1	1998.1	1998.1
2.5°	1998.1	1996.1	1994.1	1996.1	2000.1
5°	1992.1	1988.1	1988.1	1988.1	1992.1
7.5°	1978.2	1974.2	1972.2	1974.2	1976.2
10°	1958.3	1954.3	1952.3	1954.3	1956.3
12.5°	1930.4	1928.4	1926.4	1926.4	1928.4
15°	1902.5	1894.6	1892.6	1890.6	1892.6
17.5°	1862.7	1860.8	1852.8	1852.8	1852.8
20°	1819.0	1815.0	1809.0	1805.0	1805.0
22.5°	1773.2	1769.2	1759.3	1755.3	1757.3
25°	1721.4	1713.5	1705.5	1701.5	1699.6
27.5°	1665.7	1657.8	1645.8	1639.9	1639.9
30°	1606.0	1600.1	1586.1	1578.2	1576.2
32.5°	1540.3	1536.4	1516.5	1512.5	1512.5
35°	1478.7	1466.7	1450.8	1442.8	1440.8
37.5°	1405.0	1397.1	1381.1	1371.2	1369.2
40°	1331.4	1321.4	1305.5	1297.6	1295.6
42.5°	1257.8	1247.8	1231.9	1221.9	1219.9
45°	1182.1	1174.2	1154.3	1144.3	1144.3
47.5°	1110.5	1094.6	1076.7	1068.7	1066.7
50°	1032.9	1018.9	999.0	991.1	991.1
52.5°	955.3	945.3	923.4	919.4	915.5
55°	879.6	863.7	847.8	837.8	835.8
57.5°	798.0	784.1	768.2	760.2	760.2
60°	728.4	710.5	696.5	686.6	686.6
62.5°	648.8	632.9	618.9	613.0	611.0
65°	573.2	561.2	545.3	539.3	539.3
67.5°	497.5	487.6	473.6	467.7	469.7
70°	423.9	417.9	408.0	400.0	398.0
72.5°	356.2	348.3	338.3	336.3	336.3
75°	292.5	282.6	274.6	270.7	276.6
77.5°	226.9	220.9	216.9	214.9	216.9
80°	169.2	161.2	159.2	161.2	161.2
82.5°	117.4	113.4	111.4	111.4	111.4
85°	65.7	65.7	63.7	61.7	59.7
87.5°	25.9	25.9	27.9	27.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)