

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: P601116

Luminaire Tested: 22D3X-LP-50-L830

Issue Date: 10/5/2023

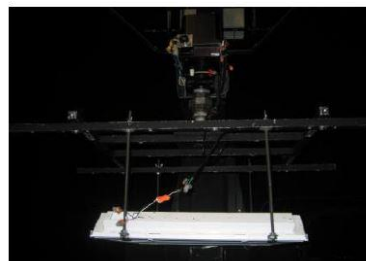
Test Information

Test Method: LM-79-2019
Report Number: P601116
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-L830
Description: 2x2 D3X-LP AT 5000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

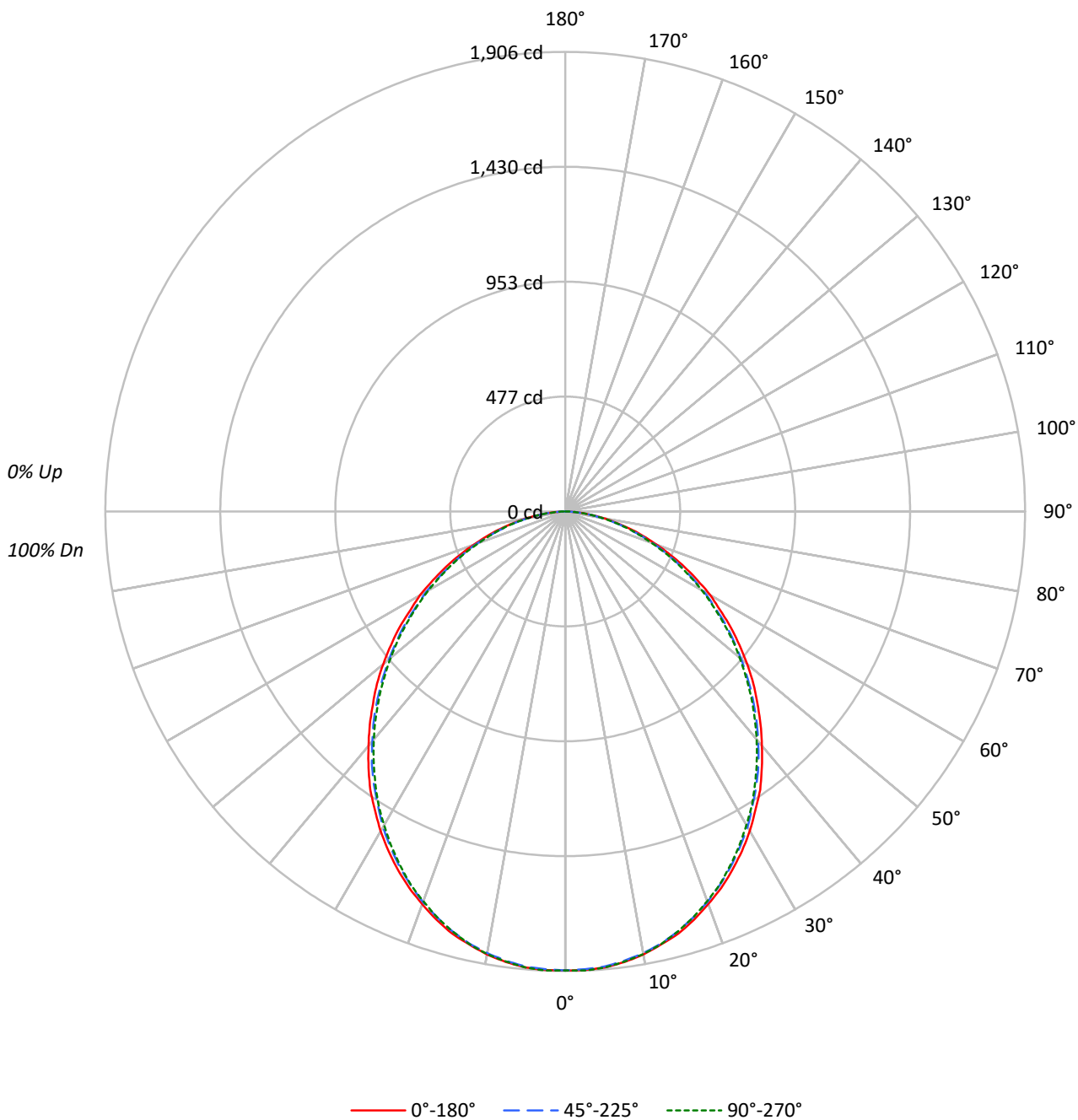
Lumens per Lamp: N/A
Luminaire Lumens: 4757.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5123	5123	5123
5°	5127	5117	5127
10°	5098	5082	5093
15°	5050	5023	5023
20°	4963	4936	4925
25°	4870	4825	4808
30°	4754	4696	4666
35°	4628	4541	4509
40°	4456	4369	4336
45°	4286	4185	4149
50°	4119	3985	3953
55°	3932	3789	3736
60°	3735	3571	3520
65°	3477	3308	3272
70°	3178	3058	2984
75°	2898	2721	2741
80°	2498	2351	2380
85°	1933	1874	1757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4286 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	3.8
10°-20°	508.4	10.7
20°-30°	748.8	15.7
30°-40°	866.3	18.2
40°-50°	851.6	17.9
50°-60°	725.8	15.3
60°-70°	520.0	10.9
70°-80°	282.5	5.9
80°-90°	73.7	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°	1437.1	30.2
0°-40°	2303.4	48.4
0°-60°	3880.8	81.6
0°-90°	4757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4757.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1898	1894	1894	1894	1898	180
15°	1813	1805	1803	1801	1803	510
25°	1640	1632	1625	1621	1619	755
35°	1409	1397	1382	1375	1373	879
45°	1126	1119	1100	1090	1090	870
55°	838	823	808	798	796	748
65°	546	535	520	514	514	541
75°	279	269	262	258	264	294
85°	63	63	61	59	57	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	1903.6	1901.7	1899.8	1901.7	1905.5
5°	1897.9	1894.2	1894.2	1894.2	1897.9
7.5°	1884.7	1880.9	1879.0	1880.9	1882.8
10°	1865.7	1861.9	1860.0	1861.9	1863.8
12.5°	1839.2	1837.3	1835.4	1835.4	1837.3
15°	1812.6	1805.0	1803.1	1801.2	1803.1
17.5°	1774.7	1772.8	1765.2	1765.2	1765.2
20°	1733.0	1729.2	1723.5	1719.7	1719.7
22.5°	1689.4	1685.6	1676.1	1672.3	1674.2
25°	1640.1	1632.5	1624.9	1621.1	1619.2
27.5°	1587.0	1579.4	1568.0	1562.3	1562.3
30°	1530.1	1524.4	1511.2	1503.6	1501.7
32.5°	1467.5	1463.7	1444.8	1441.0	1441.0
35°	1408.8	1397.4	1382.2	1374.6	1372.7
37.5°	1338.6	1331.0	1315.9	1306.4	1304.5
40°	1268.5	1259.0	1243.8	1236.2	1234.3
42.5°	1198.3	1188.8	1173.7	1164.2	1162.3
45°	1126.3	1118.7	1099.7	1090.2	1090.2
47.5°	1058.0	1042.8	1025.8	1018.2	1016.3
50°	984.0	970.8	951.8	944.2	944.2
52.5°	910.1	900.6	879.8	876.0	872.2
55°	838.1	822.9	807.7	798.2	796.3
57.5°	760.3	747.0	731.9	724.3	724.3
60°	694.0	676.9	663.6	654.1	654.1
62.5°	618.1	602.9	589.7	584.0	582.1
65°	546.1	534.7	519.5	513.8	513.8
67.5°	474.0	464.5	451.3	445.6	447.5
70°	403.9	398.2	388.7	381.1	379.2
72.5°	339.4	331.8	322.3	320.4	320.4
75°	278.7	269.2	261.7	257.9	263.6
77.5°	216.1	210.5	206.7	204.8	206.7
80°	161.2	153.6	151.7	153.6	153.6
82.5°	111.9	108.1	106.2	106.2	106.2
85°	62.6	62.6	60.7	58.8	56.9
87.5°	24.6	24.6	26.5	26.5	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)