

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: P601134

Luminaire Tested: 22D3X-LP-70-L830

Issue Date: 10/5/2023

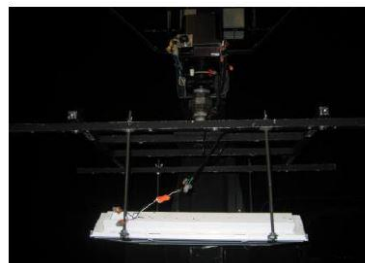
Test Information

Test Method: LM-79-2019
Report Number: P601134
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-70-L830
Description: 2x2 D3X-LP AT 7000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

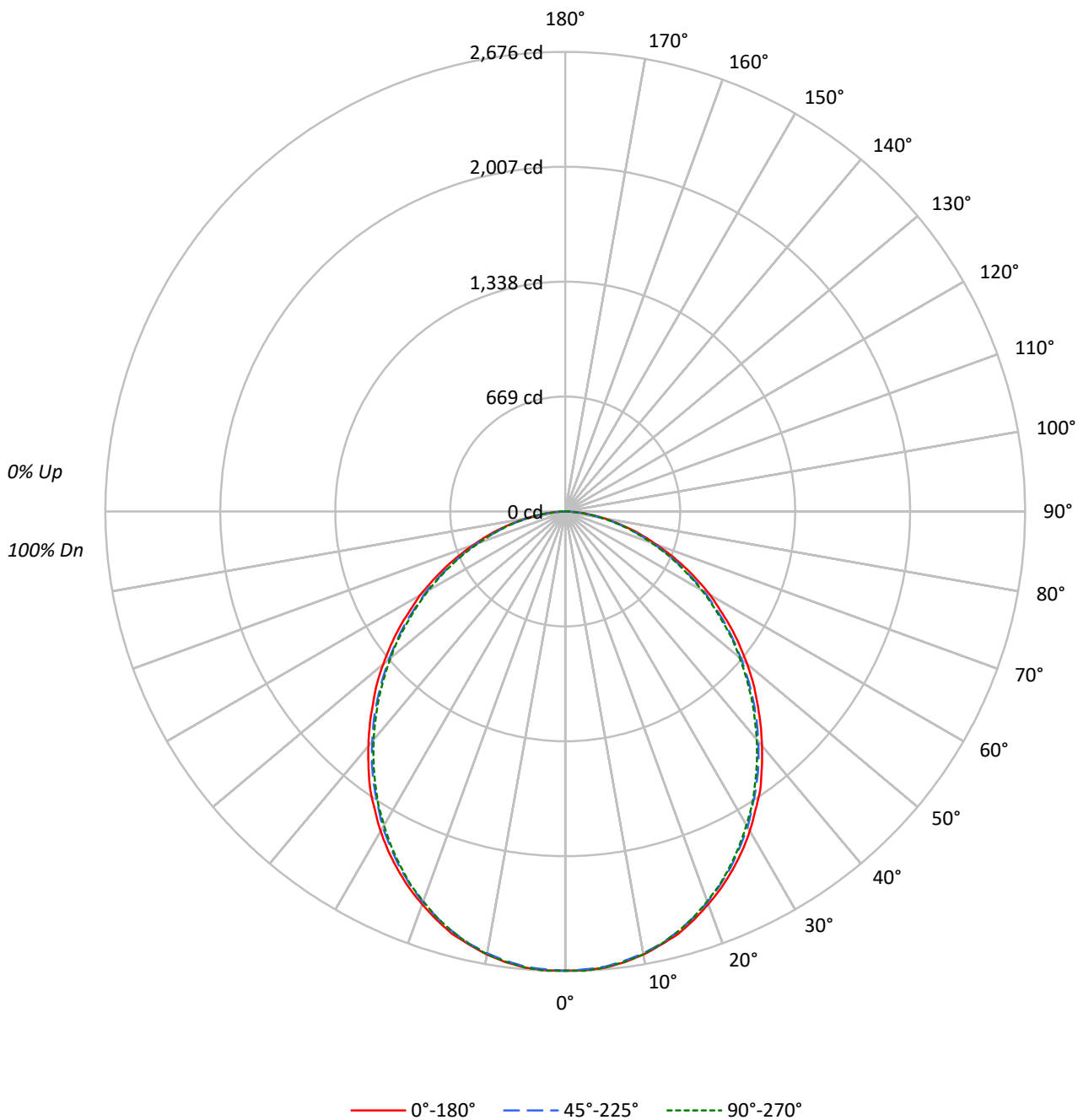
Lumens per Lamp: N/A
Luminaire Lumens: 6681.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	7195	7195	7195
5°	7200	7186	7200
10°	7160	7138	7153
15°	7092	7055	7055
20°	6970	6932	6917
25°	6839	6776	6752
30°	6678	6595	6553
35°	6500	6377	6334
40°	6258	6137	6090
45°	6020	5878	5827
50°	5786	5596	5552
55°	5522	5322	5247
60°	5245	5016	4944
65°	4883	4646	4595
70°	4463	4295	4190
75°	4069	3821	3848
80°	3507	3301	3343
85°	2714	2631	2467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6020 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	3.8
10°-20°	714.1	10.7
20°-30°	1051.7	15.7
30°-40°	1216.6	18.2
40°-50°	1196.1	17.9
50°-60°	1019.3	15.3
60°-70°	730.4	10.9
70°-80°	396.7	5.9
80°-90°	103.5	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°	2018.4	30.2
0°-40°	3235.0	48.4
0°-60°	5450.4	81.6
0°-90°	6681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2674	2674	2674	2674	2674	
5°	2666	2660	2660	2660	2666	253
15°	2546	2535	2532	2530	2532	717
25°	2303	2293	2282	2277	2274	1060
35°	1978	1963	1941	1931	1928	1234
45°	1582	1571	1544	1531	1531	1222
55°	1177	1156	1134	1121	1118	1051
65°	767	751	730	722	722	760
75°	391	378	368	362	370	413
85°	88	88	85	83	80	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2673.6	2673.6	2673.6	2673.6	2673.6
2.5°	2673.6	2670.9	2668.2	2670.9	2676.2
5°	2665.6	2660.3	2660.3	2660.3	2665.6
7.5°	2646.9	2641.6	2639.0	2641.6	2644.3
10°	2620.3	2615.0	2612.3	2615.0	2617.6
12.5°	2583.0	2580.4	2577.7	2577.7	2580.4
15°	2545.7	2535.1	2532.4	2529.8	2532.4
17.5°	2492.5	2489.8	2479.2	2479.2	2479.2
20°	2433.9	2428.6	2420.6	2415.3	2415.3
22.5°	2372.7	2367.3	2354.0	2348.7	2351.4
25°	2303.4	2292.8	2282.1	2276.8	2274.1
27.5°	2228.9	2218.2	2202.2	2194.2	2194.2
30°	2149.0	2141.0	2122.3	2111.7	2109.0
32.5°	2061.1	2055.8	2029.1	2023.8	2023.8
35°	1978.5	1962.6	1941.3	1930.6	1928.0
37.5°	1880.0	1869.4	1848.1	1834.8	1832.1
40°	1781.5	1768.2	1746.9	1736.2	1733.6
42.5°	1683.0	1669.6	1648.3	1635.0	1632.4
45°	1581.8	1571.1	1544.5	1531.2	1531.2
47.5°	1485.9	1464.6	1440.6	1430.0	1427.3
50°	1382.1	1363.4	1336.8	1326.1	1326.1
52.5°	1278.2	1264.9	1235.6	1230.3	1224.9
55°	1177.0	1155.7	1134.4	1121.1	1118.4
57.5°	1067.8	1049.2	1027.9	1017.2	1017.2
60°	974.6	950.7	932.0	918.7	918.7
62.5°	868.1	846.8	828.2	820.2	817.5
65°	766.9	750.9	729.6	721.7	721.7
67.5°	665.7	652.4	633.8	625.8	628.4
70°	567.2	559.2	545.9	535.2	532.6
72.5°	476.7	466.0	452.7	450.0	450.0
75°	391.4	378.1	367.5	362.2	370.1
77.5°	303.6	295.6	290.3	287.6	290.3
80°	226.3	215.7	213.0	215.7	215.7
82.5°	157.1	151.8	149.1	149.1	149.1
85°	87.9	87.9	85.2	82.6	79.9
87.5°	34.6	34.6	37.3	37.3	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)