

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: P601140

Luminaire Tested: 22D3X-LP-80-L830

Issue Date: 10/5/2023

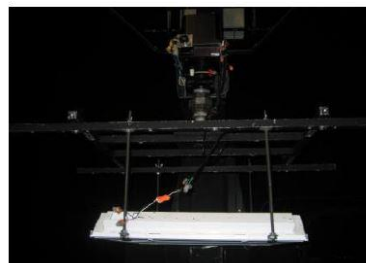
Test Information

Test Method: LM-79-2019
Report Number: P601140
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-80-L830
Description: 2x2 D3X-LP AT 8000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

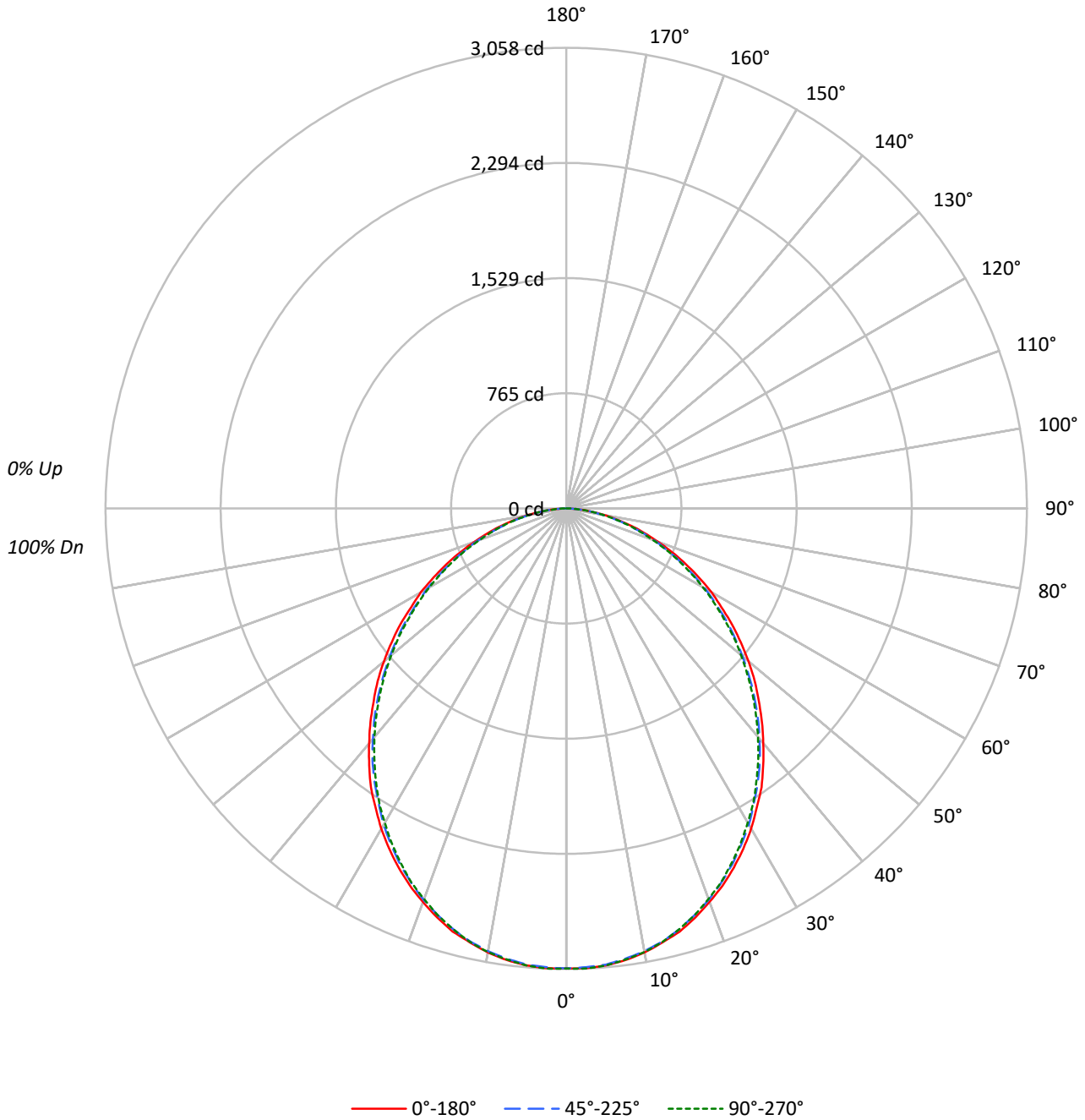
Lumens per Lamp: N/A
Luminaire Lumens: 7633.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
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°	8220	8220	8220
5°	8226	8210	8226
10°	8180	8155	8172
15°	8103	8060	8060
20°	7963	7920	7902
25°	7814	7742	7714
30°	7629	7535	7487
35°	7426	7286	7236
40°	7150	7011	6957
45°	6878	6715	6658
50°	6610	6394	6343
55°	6309	6080	5995
60°	5993	5731	5649
65°	5579	5308	5250
70°	5098	4907	4788
75°	4650	4365	4397
80°	4007	3772	3818
85°	3100	3007	2819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6878 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	3.8
10°-20°	815.8	10.7
20°-30°	1201.6	15.7
30°-40°	1390.0	18.2
40°-50°	1366.5	17.9
50°-60°	1164.6	15.3
60°-70°	834.5	10.9
70°-80°	453.2	5.9
80°-90°	118.2	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°	2306.0	30.2
0°-40°	3696.0	48.4
0°-60°	6227.1	81.6
0°-90°	7633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3054	3054	3054	3054	3054	
5°	3045	3039	3039	3039	3045	289
15°	2908	2896	2893	2890	2893	819
25°	2632	2620	2607	2601	2598	1211
35°	2260	2242	2218	2206	2203	1410
45°	1807	1795	1765	1749	1749	1396
55°	1345	1320	1296	1281	1278	1201
65°	876	858	834	824	824	868
75°	447	432	420	414	423	472
85°	100	100	97	94	91	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3054.5	3054.5	3054.5	3054.5	3054.5
2.5°	3054.5	3051.5	3048.5	3051.5	3057.6
5°	3045.4	3039.3	3039.3	3039.3	3045.4
7.5°	3024.1	3018.0	3015.0	3018.0	3021.1
10°	2993.7	2987.6	2984.6	2987.6	2990.6
12.5°	2951.1	2948.1	2945.0	2945.0	2948.1
15°	2908.5	2896.3	2893.3	2890.2	2893.3
17.5°	2847.7	2844.6	2832.4	2832.4	2832.4
20°	2780.7	2774.6	2765.5	2759.4	2759.4
22.5°	2710.7	2704.7	2689.5	2683.4	2686.4
25°	2631.6	2619.5	2607.3	2601.2	2598.2
27.5°	2546.5	2534.3	2516.0	2506.9	2506.9
30°	2455.2	2446.1	2424.8	2412.6	2409.6
32.5°	2354.8	2348.7	2318.3	2312.2	2312.2
35°	2260.5	2242.2	2217.9	2205.7	2202.7
37.5°	2147.9	2135.7	2111.4	2096.2	2093.1
40°	2035.3	2020.1	1995.8	1983.6	1980.6
42.5°	1922.8	1907.6	1883.2	1868.0	1865.0
45°	1807.2	1795.0	1764.6	1749.4	1749.4
47.5°	1697.6	1673.3	1645.9	1633.8	1630.7
50°	1579.0	1557.7	1527.3	1515.1	1515.1
52.5°	1460.3	1445.1	1411.7	1405.6	1399.5
55°	1344.7	1320.4	1296.0	1280.8	1277.8
57.5°	1220.0	1198.7	1174.4	1162.2	1162.2
60°	1113.5	1086.1	1064.8	1049.6	1049.6
62.5°	991.8	967.5	946.2	937.0	934.0
65°	876.2	857.9	833.6	824.5	824.5
67.5°	760.6	745.4	724.1	715.0	718.0
70°	648.0	638.9	623.7	611.5	608.5
72.5°	544.6	532.4	517.2	514.2	514.2
75°	447.2	432.0	419.8	413.8	422.9
77.5°	346.8	337.7	331.6	328.6	331.6
80°	258.6	246.4	243.4	246.4	246.4
82.5°	179.5	173.4	170.4	170.4	170.4
85°	100.4	100.4	97.4	94.3	91.3
87.5°	39.6	39.6	42.6	42.6	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)