

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: P601145

Luminaire Tested: 22D3X-LP-80-L940

Issue Date: 10/5/2023

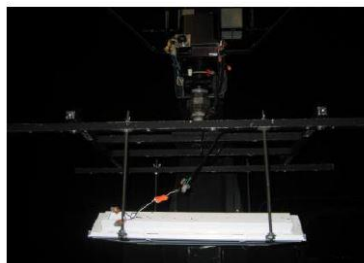
Test Information

Test Method: LM-79-2019
Report Number: P601145
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-L940
Description: 2x2 D3X-LP AT 8000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

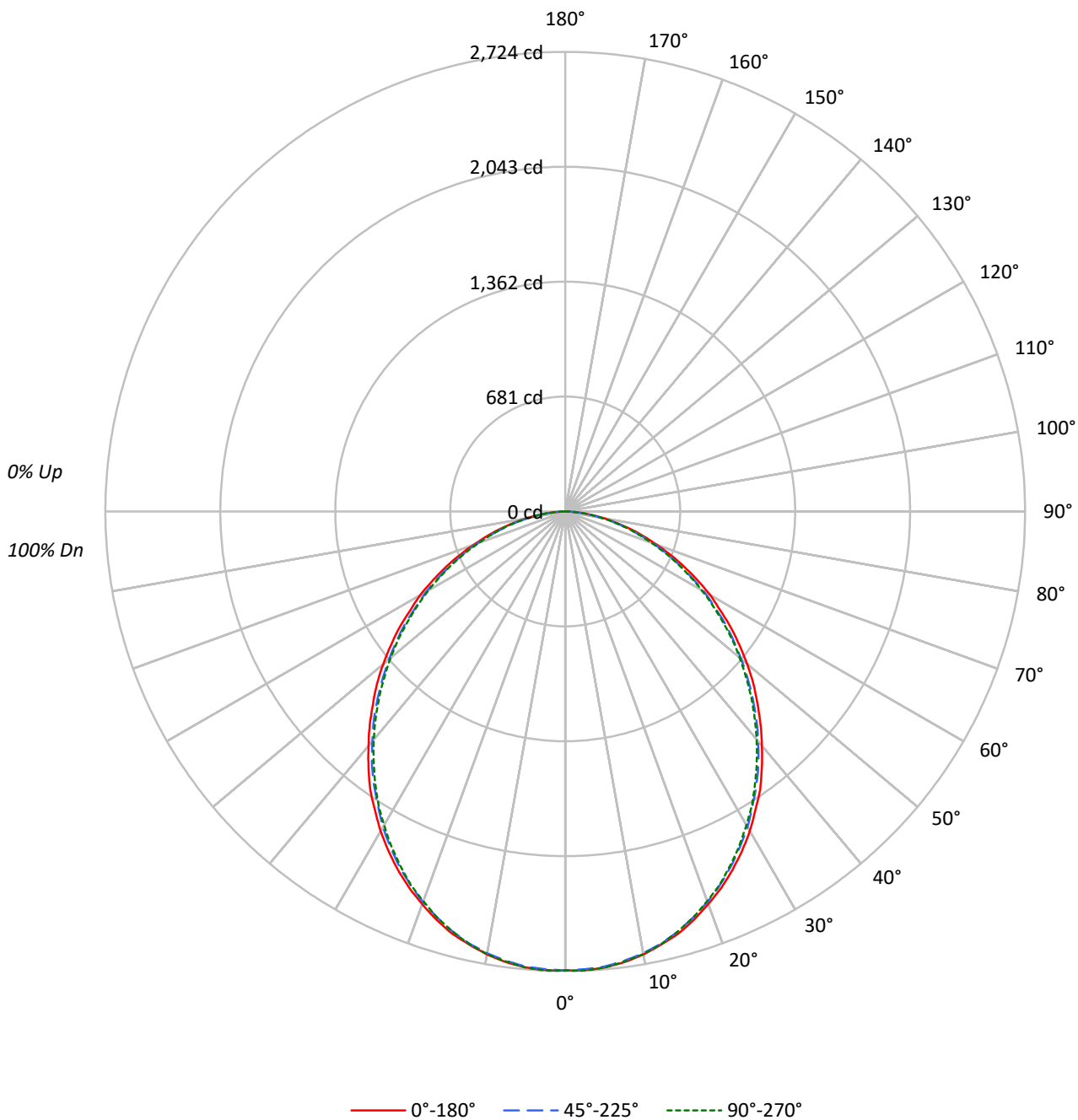
Lumens per Lamp: N/A
Luminaire Lumens: 6799.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7322	7322	7322
5°	7328	7313	7328
10°	7286	7264	7279
15°	7217	7180	7180
20°	7093	7054	7039
25°	6960	6896	6872
30°	6795	6711	6669
35°	6615	6490	6445
40°	6369	6245	6197
45°	6126	5982	5930
50°	5888	5695	5650
55°	5620	5416	5340
60°	5338	5105	5032
65°	4970	4728	4676
70°	4541	4371	4264
75°	4142	3889	3917
80°	3569	3360	3402
85°	2760	2677	2510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6126 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	3.8
10°-20°	726.7	10.7
20°-30°	1070.3	15.7
30°-40°	1238.1	18.2
40°-50°	1217.2	17.9
50°-60°	1037.3	15.3
60°-70°	743.3	10.9
70°-80°	403.7	5.9
80°-90°	105.3	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°	2054.0	30.2
0°-40°	3292.1	48.4
0°-60°	5546.7	81.6
0°-90°	6799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2713	2707	2707	2707	2713	257
15°	2591	2580	2577	2574	2577	729
25°	2344	2333	2322	2317	2314	1079
35°	2014	1997	1976	1965	1962	1256
45°	1610	1599	1572	1558	1558	1243
55°	1198	1176	1154	1141	1138	1070
65°	780	764	742	734	734	773
75°	398	385	374	369	377	421
85°	89	89	87	84	81	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2720.8	2720.8	2720.8	2720.8	2720.8
2.5°	2720.8	2718.1	2715.4	2718.1	2723.5
5°	2712.7	2707.2	2707.2	2707.2	2712.7
7.5°	2693.7	2688.3	2685.6	2688.3	2691.0
10°	2666.6	2661.2	2658.5	2661.2	2663.9
12.5°	2628.7	2625.9	2623.2	2623.2	2625.9
15°	2590.7	2579.9	2577.2	2574.5	2577.2
17.5°	2536.5	2533.8	2523.0	2523.0	2523.0
20°	2476.9	2471.5	2463.3	2457.9	2457.9
22.5°	2414.6	2409.1	2395.6	2390.2	2392.9
25°	2344.1	2333.3	2322.4	2317.0	2314.3
27.5°	2268.2	2257.4	2241.1	2233.0	2233.0
30°	2186.9	2178.8	2159.8	2149.0	2146.3
32.5°	2097.5	2092.1	2065.0	2059.6	2059.6
35°	2013.5	1997.2	1975.6	1964.7	1962.0
37.5°	1913.2	1902.4	1880.7	1867.2	1864.4
40°	1813.0	1799.4	1777.7	1766.9	1764.2
42.5°	1712.7	1699.1	1677.5	1663.9	1661.2
45°	1609.7	1598.9	1571.8	1558.2	1558.2
47.5°	1512.2	1490.5	1466.1	1455.2	1452.5
50°	1406.5	1387.5	1360.4	1349.6	1349.6
52.5°	1300.8	1287.2	1257.4	1252.0	1246.6
55°	1197.8	1176.1	1154.4	1140.9	1138.2
57.5°	1086.7	1067.7	1046.0	1035.2	1035.2
60°	991.8	967.5	948.5	934.9	934.9
62.5°	883.4	861.8	842.8	834.7	832.0
65°	780.5	764.2	742.5	734.4	734.4
67.5°	677.5	663.9	645.0	636.8	639.5
70°	577.2	569.1	555.5	544.7	542.0
72.5°	485.1	474.2	460.7	458.0	458.0
75°	398.4	384.8	374.0	368.6	376.7
77.5°	308.9	300.8	295.4	292.7	295.4
80°	230.3	219.5	216.8	219.5	219.5
82.5°	159.9	154.5	151.8	151.8	151.8
85°	89.4	89.4	86.7	84.0	81.3
87.5°	35.2	35.2	37.9	37.9	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)