

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: P601198

Luminaire Tested: 24D3X-LP-80-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-80-L935
Description: 2x4 D3X-LP AT 8000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

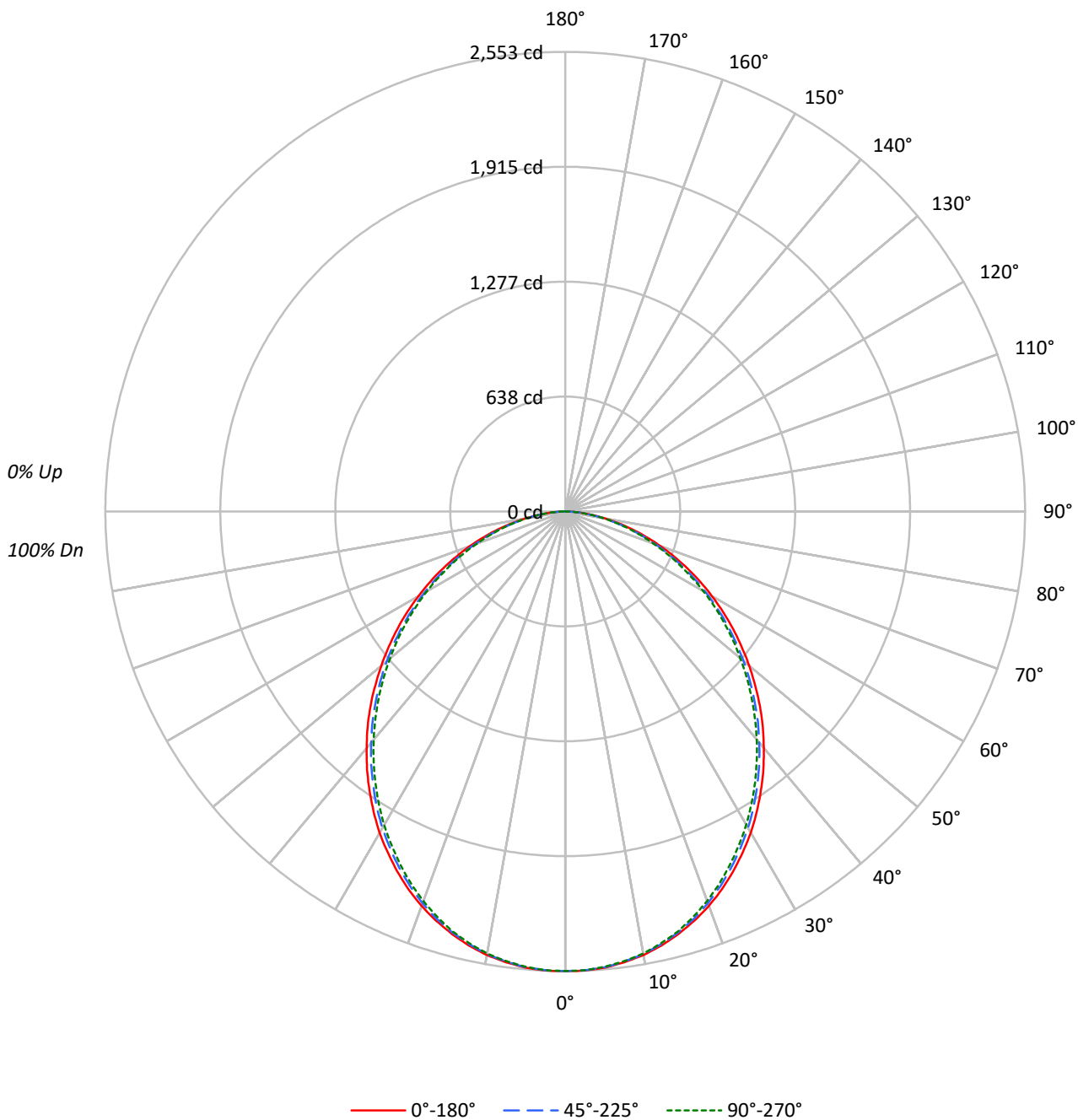
Lumens per Lamp: N/A
Luminaire Lumens: 6437.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	3435	3435	3435
5°	3435	3432	3428
10°	3418	3410	3407
15°	3384	3373	3364
20°	3339	3316	3297
25°	3275	3239	3214
30°	3202	3153	3123
35°	3111	3052	3018
40°	3013	2943	2907
45°	2910	2827	2785
50°	2791	2705	2657
55°	2668	2575	2526
60°	2531	2430	2384
65°	2382	2271	2224
70°	2216	2097	2045
75°	2011	1897	1866
80°	1742	1648	1658
85°	1437	1419	1325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	3.7
10°-20°	682.4	10.6
20°-30°	1005.6	15.6
30°-40°	1164.2	18.1
40°-50°	1149.4	17.9
50°-60°	984.5	15.3
60°-70°	711.8	11.1
70°-80°	392.4	6.1
80°-90°	105.7	1.6
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°	1929.2	30.0
0°-40°	3093.4	48.1
0°-60°	5227.2	81.2
0°-90°	6437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2553	2553	2553	2553	2553	
5°	2543	2542	2541	2538	2538	241
15°	2430	2427	2421	2418	2415	685
25°	2206	2200	2182	2171	2165	1016
35°	1894	1882	1858	1842	1837	1184
45°	1529	1508	1486	1471	1464	1178
55°	1138	1116	1098	1082	1077	1017
65°	748	731	713	702	699	742
75°	387	375	365	364	359	410
85°	93	93	92	86	86	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2552.9	2552.9	2550.5	2550.5	2550.5
5°	2543.2	2542.0	2540.8	2538.4	2538.4
7.5°	2525.1	2525.1	2521.5	2521.5	2519.1
10°	2502.1	2499.7	2496.1	2496.1	2493.7
12.5°	2469.5	2467.1	2462.3	2461.1	2457.4
15°	2429.6	2427.2	2421.2	2417.5	2415.1
17.5°	2383.7	2380.1	2372.8	2366.8	2361.9
20°	2331.7	2326.9	2316.0	2308.7	2302.7
22.5°	2272.5	2267.6	2251.9	2243.5	2237.4
25°	2206.0	2200.0	2181.8	2170.9	2164.9
27.5°	2134.7	2127.4	2106.9	2094.8	2088.8
30°	2060.9	2050.1	2029.5	2015.0	2010.2
32.5°	1978.8	1967.9	1947.3	1930.4	1925.6
35°	1894.1	1882.1	1857.9	1842.2	1837.3
37.5°	1807.1	1791.4	1769.6	1753.9	1746.7
40°	1715.2	1699.5	1675.4	1658.4	1654.8
42.5°	1623.4	1604.0	1583.5	1566.6	1559.3
45°	1529.1	1508.5	1485.6	1471.1	1463.8
47.5°	1430.0	1410.6	1390.1	1373.2	1367.1
50°	1333.3	1312.7	1292.2	1276.5	1269.2
52.5°	1234.2	1213.6	1194.3	1181.0	1173.7
55°	1137.5	1115.7	1097.6	1081.8	1077.0
57.5°	1039.5	1020.2	999.7	985.1	981.5
60°	940.4	923.5	902.9	889.7	886.0
62.5°	844.9	828.0	808.7	795.4	789.3
65°	748.2	731.3	713.2	702.3	698.7
67.5°	653.9	638.2	622.5	611.6	609.2
70°	563.3	547.6	533.1	523.4	519.8
72.5°	472.6	461.7	447.2	441.2	437.6
75°	386.8	374.7	365.0	363.8	359.0
77.5°	303.4	302.2	286.5	284.1	284.1
80°	224.8	221.2	212.7	210.3	214.0
82.5°	154.7	152.3	147.5	146.3	145.1
85°	93.1	93.1	91.9	85.8	85.8
87.5°	42.3	41.1	39.9	41.1	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)