

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: P995658

Luminaire Tested: 24D3X-LP-WD-80-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-80-L950.ies
Description: 2x4 D3X-LP AT 8000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

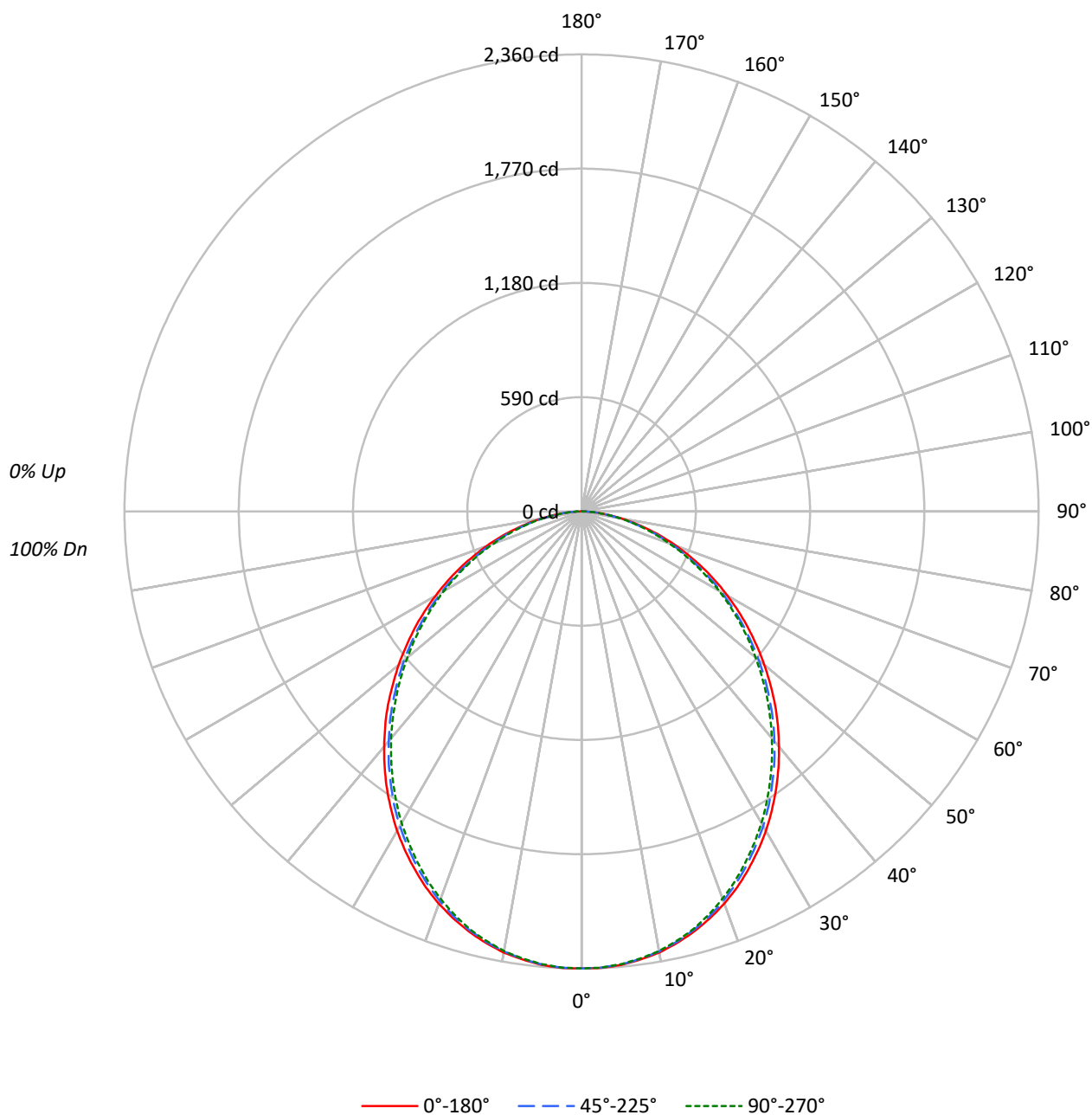
Lumens per Lamp: N/A
Luminaire Lumens: 5949.7 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3175	3175	3175
5°	3175	3172	3169
10°	3160	3152	3149
15°	3128	3117	3109
20°	3086	3065	3048
25°	3027	2994	2971
30°	2960	2914	2887
35°	2876	2821	2789
40°	2785	2720	2686
45°	2689	2613	2575
50°	2579	2500	2456
55°	2466	2380	2335
60°	2339	2246	2204
65°	2202	2099	2056
70°	2048	1938	1890
75°	1858	1754	1725
80°	1610	1523	1533
85°	1328	1311	1224

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2689 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.7
10°-20°	630.7	10.6
20°-30°	929.5	15.6
30°-40°	1076.1	18.1
40°-50°	1062.4	17.9
50°-60°	910.0	15.3
60°-70°	657.9	11.1
70°-80°	362.7	6.1
80°-90°	97.7	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°	1783.1	30.0
0°-40°	2859.2	48.1
0°-60°	4831.5	81.2
0°-90°	5949.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5949.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2360	2360	2360	2360	2360	
5°	2351	2350	2348	2346	2346	223
15°	2246	2244	2238	2234	2232	633
25°	2039	2033	2017	2007	2001	939
35°	1751	1740	1717	1703	1698	1095
45°	1413	1394	1373	1360	1353	1089
55°	1051	1031	1014	1000	996	940
65°	692	676	659	649	646	686
75°	358	346	337	336	332	379
85°	86	86	85	79	79	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2359.7	2359.7	2359.7	2359.7	2359.7
2.5°	2359.7	2359.7	2357.4	2357.4	2357.4
5°	2350.7	2349.6	2348.5	2346.3	2346.3
7.5°	2334.0	2334.0	2330.6	2330.6	2328.4
10°	2312.7	2310.5	2307.1	2307.1	2304.9
12.5°	2282.6	2280.3	2275.9	2274.7	2271.4
15°	2245.7	2243.5	2237.9	2234.5	2232.3
17.5°	2203.2	2199.9	2193.2	2187.6	2183.1
20°	2155.2	2150.7	2140.7	2134.0	2128.4
22.5°	2100.5	2096.0	2081.5	2073.6	2068.1
25°	2039.0	2033.4	2016.7	2006.6	2001.0
27.5°	1973.1	1966.4	1947.4	1936.2	1930.6
30°	1904.9	1894.9	1875.9	1862.5	1858.0
32.5°	1829.0	1818.9	1799.9	1784.3	1779.8
35°	1750.8	1739.6	1717.2	1702.7	1698.2
37.5°	1670.3	1655.8	1635.7	1621.1	1614.4
40°	1585.4	1570.9	1548.5	1532.9	1529.5
42.5°	1500.5	1482.6	1463.6	1448.0	1441.3
45°	1413.3	1394.3	1373.1	1359.7	1353.0
47.5°	1321.7	1303.8	1284.9	1269.2	1263.6
50°	1232.3	1213.3	1194.4	1179.8	1173.1
52.5°	1140.7	1121.7	1103.9	1091.6	1084.9
55°	1051.3	1031.2	1014.5	1000.0	995.5
57.5°	960.8	943.0	924.0	910.6	907.2
60°	869.2	853.6	834.6	822.3	819.0
62.5°	781.0	765.3	747.4	735.2	729.6
65°	691.6	675.9	659.2	649.1	645.8
67.5°	604.4	589.9	575.4	565.3	563.1
70°	520.6	506.1	492.7	483.8	480.4
72.5°	436.9	426.8	413.4	407.8	404.4
75°	357.5	346.4	337.4	336.3	331.8
77.5°	280.4	279.3	264.8	262.6	262.6
80°	207.8	204.5	196.6	194.4	197.8
82.5°	143.0	140.8	136.3	135.2	134.1
85°	86.0	86.0	84.9	79.3	79.3
87.5°	39.1	38.0	36.9	38.0	41.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)