

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: P995657

Luminaire Tested: 24D3X-LP-WD-80-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995657
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-L940.ies
Description: 2x4 D3X-LP AT 8000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

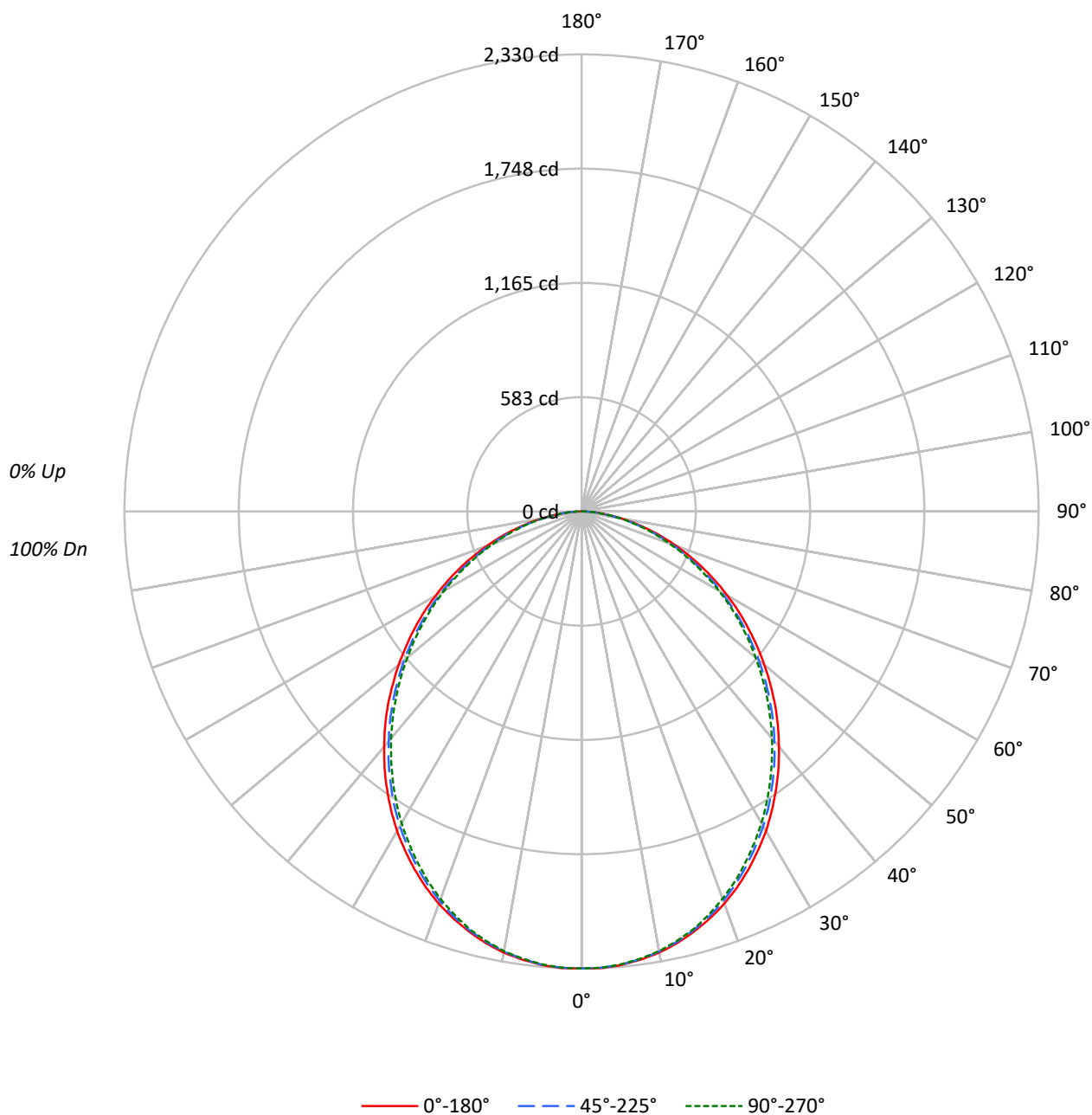
Lumens per Lamp: N/A
Luminaire Lumens: 5875.2 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3135	3135	3135
5°	3135	3132	3129
10°	3120	3113	3110
15°	3089	3078	3070
20°	3047	3027	3009
25°	2989	2956	2934
30°	2923	2878	2850
35°	2840	2785	2755
40°	2750	2686	2653
45°	2656	2580	2542
50°	2547	2469	2425
55°	2435	2350	2306
60°	2310	2218	2176
65°	2174	2072	2030
70°	2022	1914	1866
75°	1835	1732	1704
80°	1590	1505	1513
85°	1312	1294	1209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.7
10°-20°	622.8	10.6
20°-30°	917.9	15.6
30°-40°	1062.6	18.1
40°-50°	1049.1	17.9
50°-60°	898.6	15.3
60°-70°	649.6	11.1
70°-80°	358.1	6.1
80°-90°	96.4	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°	1760.8	30.0
0°-40°	2823.4	48.1
0°-60°	4771.0	81.2
0°-90°	5875.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2321	2320	2319	2317	2317	220
15°	2218	2215	2210	2206	2204	625
25°	2014	2008	1991	1982	1976	927
35°	1729	1718	1696	1681	1677	1081
45°	1396	1377	1356	1343	1336	1075
55°	1038	1018	1002	987	983	928
65°	683	668	651	641	638	677
75°	353	342	333	332	328	375
85°	85	85	84	78	78	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2330.1	2330.1	2330.1	2330.1	2330.1
2.5°	2330.1	2330.1	2327.9	2327.9	2327.9
5°	2321.3	2320.2	2319.1	2316.9	2316.9
7.5°	2304.7	2304.7	2301.4	2301.4	2299.2
10°	2283.8	2281.6	2278.3	2278.3	2276.0
12.5°	2254.0	2251.8	2247.4	2246.3	2242.9
15°	2217.6	2215.4	2209.9	2206.5	2204.3
17.5°	2175.6	2172.3	2165.7	2160.2	2155.8
20°	2128.2	2123.8	2113.9	2107.2	2101.7
22.5°	2074.1	2069.7	2055.4	2047.7	2042.2
25°	2013.5	2008.0	1991.4	1981.5	1976.0
27.5°	1948.4	1941.8	1923.0	1912.0	1906.5
30°	1881.1	1871.1	1852.4	1839.2	1834.7
32.5°	1806.1	1796.1	1777.4	1761.9	1757.5
35°	1728.8	1717.8	1695.7	1681.4	1677.0
37.5°	1649.4	1635.0	1615.2	1600.8	1594.2
40°	1565.5	1551.2	1529.1	1513.7	1510.4
42.5°	1481.7	1464.0	1445.3	1429.8	1423.2
45°	1395.6	1376.9	1355.9	1342.7	1336.1
47.5°	1305.2	1287.5	1268.8	1253.3	1247.8
50°	1216.9	1198.2	1179.4	1165.1	1158.4
52.5°	1126.4	1107.7	1090.0	1077.9	1071.3
55°	1038.2	1018.3	1001.8	987.4	983.0
57.5°	948.8	931.2	912.4	899.2	895.9
60°	858.3	842.9	824.1	812.0	808.7
62.5°	771.2	755.7	738.1	726.0	720.4
65°	682.9	667.5	650.9	641.0	637.7
67.5°	596.9	582.5	568.2	558.3	556.0
70°	514.1	499.8	486.5	477.7	474.4
72.5°	431.4	421.4	408.2	402.7	399.4
75°	353.0	342.0	333.2	332.1	327.7
77.5°	276.9	275.8	261.5	259.3	259.3
80°	205.2	201.9	194.2	192.0	195.3
82.5°	141.2	139.0	134.6	133.5	132.4
85°	85.0	85.0	83.8	78.3	78.3
87.5°	38.6	37.5	36.4	37.5	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)