

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: P995663

Luminaire Tested: 24D3X-LP-WD-90-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995663
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-90-L927.ies
Description: 2x4 D3X-LP AT 9000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

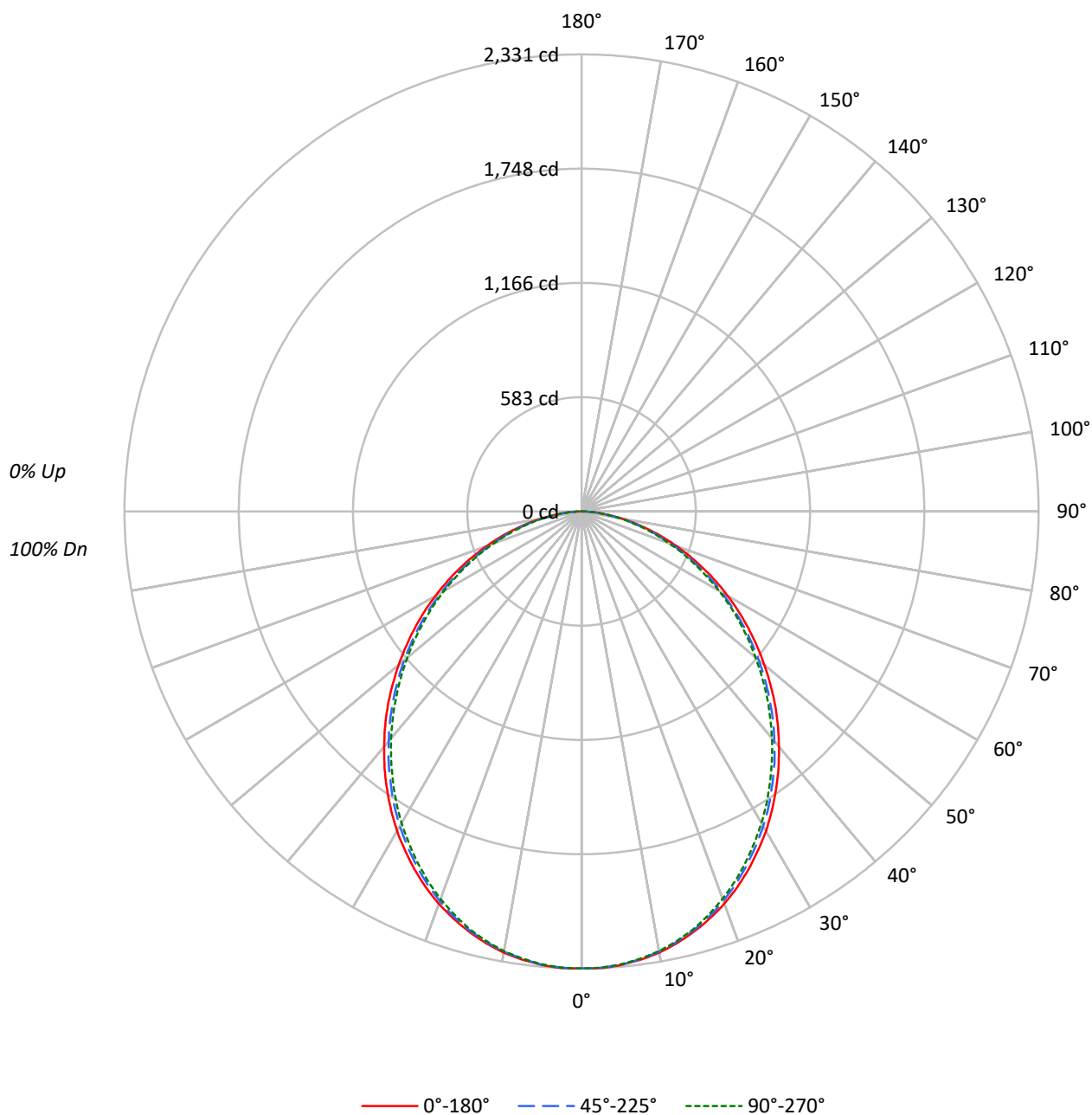
Lumens per Lamp: N/A
Luminaire Lumens: 5878.3 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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		
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°	3137	3137	3137
5°	3137	3134	3131
10°	3122	3114	3111
15°	3091	3080	3072
20°	3049	3028	3011
25°	2991	2958	2935
30°	2924	2880	2852
35°	2841	2787	2756
40°	2751	2687	2654
45°	2657	2581	2544
50°	2548	2470	2426
55°	2437	2351	2307
60°	2311	2219	2177
65°	2175	2074	2031
70°	2024	1915	1867
75°	1836	1733	1704
80°	1591	1506	1514
85°	1312	1295	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2657 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	3.7
10°-20°	623.2	10.6
20°-30°	918.4	15.6
30°-40°	1063.1	18.1
40°-50°	1049.6	17.9
50°-60°	899.0	15.3
60°-70°	650.0	11.1
70°-80°	358.3	6.1
80°-90°	96.5	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°	1761.7	30.0
0°-40°	2824.9	48.1
0°-60°	4773.5	81.2
0°-90°	5878.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5878.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2322	2321	2320	2318	2318	220
15°	2219	2216	2211	2208	2206	625
25°	2014	2009	1992	1982	1977	928
35°	1730	1719	1697	1682	1678	1082
45°	1396	1378	1357	1343	1337	1076
55°	1039	1019	1002	988	984	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°	2331.3	2331.3	2331.3	2331.3	2331.3
2.5°	2331.3	2331.3	2329.1	2329.1	2329.1
5°	2322.5	2321.4	2320.3	2318.1	2318.1
7.5°	2305.9	2305.9	2302.6	2302.6	2300.4
10°	2285.0	2282.7	2279.4	2279.4	2277.2
12.5°	2255.1	2252.9	2248.5	2247.4	2244.1
15°	2218.7	2216.5	2211.0	2207.7	2205.5
17.5°	2176.8	2173.5	2166.8	2161.3	2156.9
20°	2129.3	2124.9	2115.0	2108.3	2102.8
22.5°	2075.2	2070.8	2056.5	2048.7	2043.2
25°	2014.5	2009.0	1992.4	1982.5	1977.0
27.5°	1949.4	1942.8	1924.0	1913.0	1907.4
30°	1882.1	1872.1	1853.4	1840.1	1835.7
32.5°	1807.0	1797.1	1778.3	1762.8	1758.4
35°	1729.7	1718.7	1696.6	1682.3	1677.8
37.5°	1650.2	1635.9	1616.0	1601.7	1595.1
40°	1566.4	1552.0	1529.9	1514.5	1511.2
42.5°	1482.5	1464.8	1446.0	1430.6	1424.0
45°	1396.4	1377.6	1356.6	1343.4	1336.8
47.5°	1305.8	1288.2	1269.4	1254.0	1248.4
50°	1217.5	1198.8	1180.0	1165.7	1159.0
52.5°	1127.0	1108.3	1090.6	1078.5	1071.8
55°	1038.7	1018.8	1002.3	987.9	983.5
57.5°	949.3	931.6	912.9	899.6	896.3
60°	858.8	843.3	824.6	812.4	809.1
62.5°	771.6	756.1	738.5	726.3	720.8
65°	683.3	667.8	651.3	641.3	638.0
67.5°	597.2	582.8	568.5	558.5	556.3
70°	514.4	500.0	486.8	478.0	474.7
72.5°	431.6	421.7	408.4	402.9	399.6
75°	353.2	342.2	333.4	332.3	327.8
77.5°	277.1	276.0	261.6	259.4	259.4
80°	205.3	202.0	194.3	192.1	195.4
82.5°	141.3	139.1	134.7	133.6	132.5
85°	85.0	85.0	83.9	78.4	78.4
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)