

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: P601192

Luminaire Tested: 24D3X-LP-70-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601192
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-70-L935
Description: 2x4 D3X-LP AT 7000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

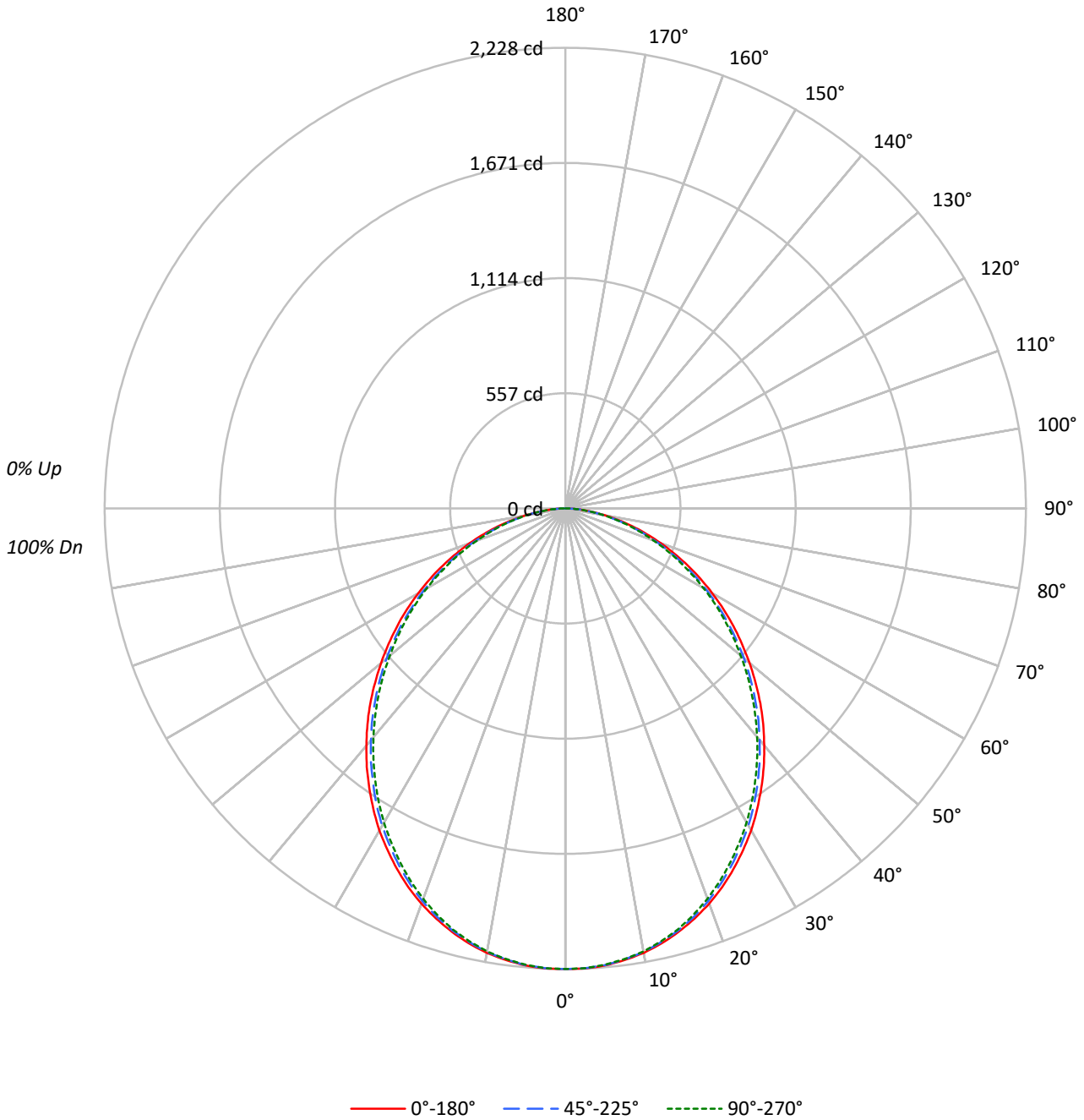
Lumens per Lamp: N/A
Luminaire Lumens: 5617.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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°	2997	2997	2997
5°	2997	2995	2992
10°	2983	2976	2973
15°	2953	2943	2936
20°	2913	2894	2877
25°	2858	2826	2805
30°	2794	2751	2725
35°	2715	2663	2633
40°	2629	2568	2536
45°	2539	2467	2430
50°	2435	2360	2318
55°	2328	2247	2205
60°	2208	2120	2081
65°	2079	1981	1941
70°	1934	1830	1784
75°	1755	1656	1629
80°	1520	1438	1447
85°	1254	1238	1156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	3.7
10°-20°	595.5	10.6
20°-30°	877.5	15.6
30°-40°	1015.9	18.1
40°-50°	1003.0	17.9
50°-60°	859.1	15.3
60°-70°	621.1	11.1
70°-80°	342.4	6.1
80°-90°	92.2	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°	1683.4	30.0
0°-40°	2699.3	48.1
0°-60°	4561.3	81.2
0°-90°	5617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2219	2218	2217	2215	2215	211
15°	2120	2118	2113	2110	2108	598
25°	1925	1920	1904	1894	1889	886
35°	1653	1642	1621	1608	1603	1033
45°	1334	1316	1296	1284	1277	1028
55°	993	974	958	944	940	887
65°	653	638	622	613	610	647
75°	338	327	318	318	313	358
85°	81	81	80	75	75	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2227.7	2227.7	2225.6	2225.6	2225.6
5°	2219.3	2218.2	2217.2	2215.0	2215.0
7.5°	2203.4	2203.4	2200.3	2200.3	2198.2
10°	2183.4	2181.3	2178.1	2178.1	2176.0
12.5°	2154.9	2152.8	2148.6	2147.5	2144.4
15°	2120.1	2118.0	2112.7	2109.6	2107.5
17.5°	2080.0	2076.9	2070.5	2065.3	2061.0
20°	2034.7	2030.5	2021.0	2014.6	2009.4
22.5°	1983.0	1978.8	1965.1	1957.7	1952.4
25°	1925.0	1919.7	1903.9	1894.4	1889.1
27.5°	1862.7	1856.4	1838.5	1827.9	1822.7
30°	1798.4	1788.9	1771.0	1758.3	1754.1
32.5°	1726.7	1717.2	1699.3	1684.5	1680.3
35°	1652.8	1642.3	1621.2	1607.5	1603.3
37.5°	1576.9	1563.2	1544.2	1530.5	1524.2
40°	1496.7	1483.0	1461.9	1447.2	1444.0
42.5°	1416.6	1399.7	1381.8	1367.0	1360.7
45°	1334.3	1316.4	1296.3	1283.7	1277.3
47.5°	1247.8	1230.9	1213.0	1198.2	1193.0
50°	1163.4	1145.5	1127.6	1113.9	1107.5
52.5°	1076.9	1059.0	1042.1	1030.5	1024.2
55°	992.6	973.6	957.7	944.0	939.8
57.5°	907.1	890.2	872.3	859.6	856.5
60°	820.6	805.9	787.9	776.3	773.2
62.5°	737.3	722.5	705.7	694.0	688.8
65°	652.9	638.1	622.3	612.8	609.7
67.5°	570.6	556.9	543.2	533.7	531.6
70°	491.5	477.8	465.2	456.7	453.6
72.5°	412.4	402.9	390.3	385.0	381.8
75°	337.5	327.0	318.5	317.5	313.3
77.5°	264.8	263.7	250.0	247.9	247.9
80°	196.2	193.0	185.6	183.5	186.7
82.5°	135.0	132.9	128.7	127.6	126.6
85°	81.2	81.2	80.2	74.9	74.9
87.5°	36.9	35.9	34.8	35.9	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)