

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: P995644

Luminaire Tested: 24D3X-LP-WD-70-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995644
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-70-L850.ies
Description: 2x4 D3X-LP AT 7000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

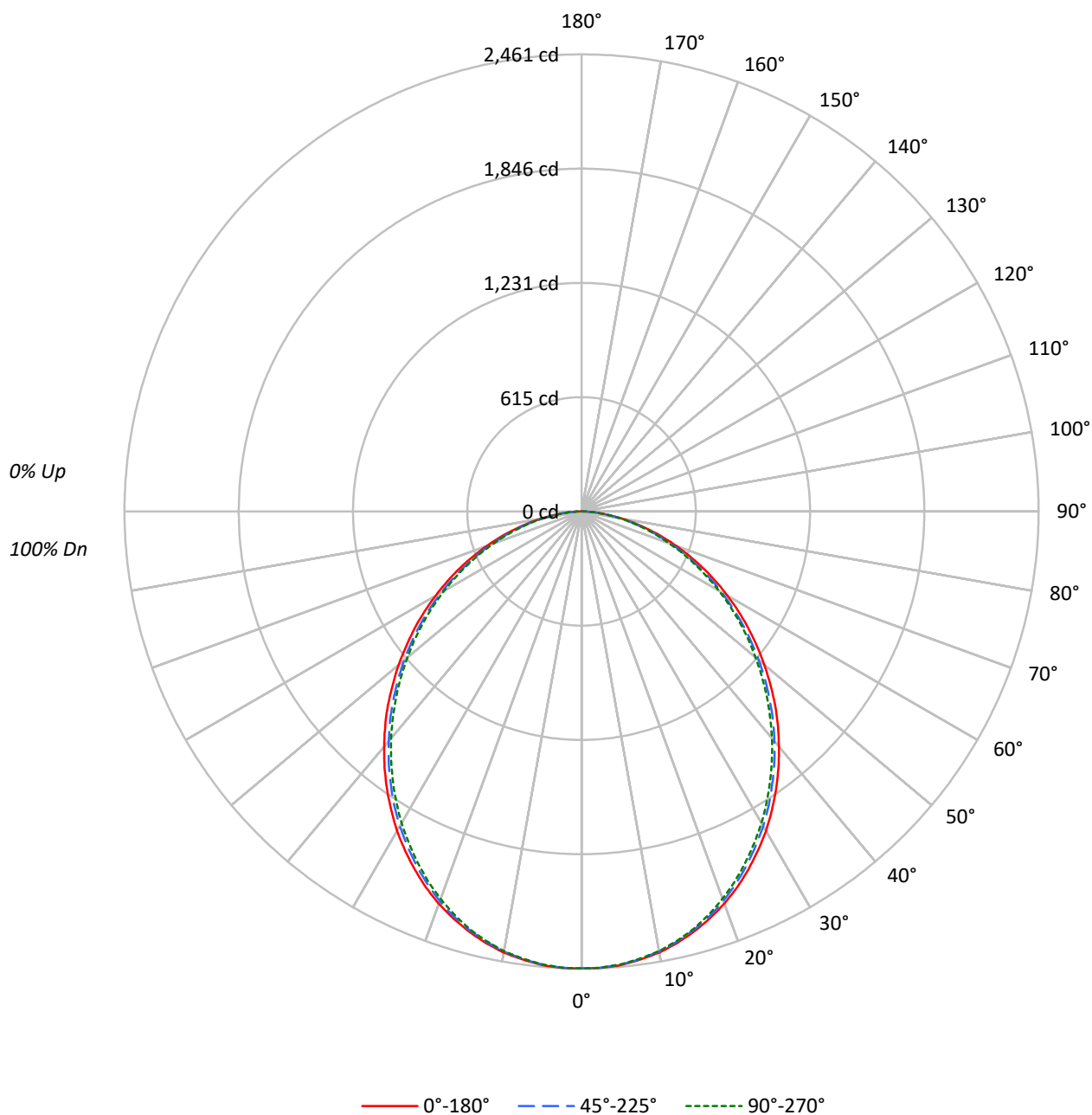
Lumens per Lamp: N/A
Luminaire Lumens: 6204.8 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3311	3311	3311
5°	3311	3308	3305
10°	3295	3287	3284
15°	3262	3251	3243
20°	3218	3197	3178
25°	3157	3122	3098
30°	3086	3039	3010
35°	2999	2942	2909
40°	2904	2836	2802
45°	2805	2725	2685
50°	2690	2607	2561
55°	2572	2482	2435
60°	2439	2342	2298
65°	2296	2188	2144
70°	2136	2021	1971
75°	1939	1829	1799
80°	1679	1589	1598
85°	1385	1368	1277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2805 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.7
10°-20°	657.8	10.6
20°-30°	969.4	15.6
30°-40°	1122.2	18.1
40°-50°	1107.9	17.9
50°-60°	949.0	15.3
60°-70°	686.1	11.1
70°-80°	378.2	6.1
80°-90°	101.8	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°	1859.6	30.0
0°-40°	2981.8	48.1
0°-60°	5038.7	81.2
0°-90°	6204.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6204.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2452	2450	2449	2447	2447	233
15°	2342	2340	2334	2330	2328	660
25°	2126	2121	2103	2093	2087	979
35°	1826	1814	1791	1776	1771	1142
45°	1474	1454	1432	1418	1411	1136
55°	1096	1076	1058	1043	1038	980
65°	721	705	687	677	674	715
75°	373	361	352	351	346	396
85°	90	90	89	83	83	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2460.8	2460.8	2460.8	2460.8	2460.8
2.5°	2460.8	2460.8	2458.5	2458.5	2458.5
5°	2451.5	2450.4	2449.2	2446.9	2446.9
7.5°	2434.0	2434.0	2430.5	2430.5	2428.2
10°	2411.9	2409.6	2406.1	2406.1	2403.7
12.5°	2380.4	2378.1	2373.4	2372.3	2368.8
15°	2342.0	2339.7	2333.8	2330.3	2328.0
17.5°	2297.7	2294.2	2287.2	2281.4	2276.7
20°	2247.6	2242.9	2232.5	2225.5	2219.6
22.5°	2190.5	2185.9	2170.7	2162.6	2156.7
25°	2126.4	2120.6	2103.1	2092.6	2086.8
27.5°	2057.7	2050.7	2030.9	2019.2	2013.4
30°	1986.6	1976.1	1956.3	1942.3	1937.7
32.5°	1907.4	1896.9	1877.1	1860.8	1856.1
35°	1825.8	1814.2	1790.9	1775.7	1771.1
37.5°	1741.9	1726.8	1705.8	1690.7	1683.7
40°	1653.4	1638.2	1614.9	1598.6	1595.1
42.5°	1564.8	1546.2	1526.4	1510.1	1503.1
45°	1473.9	1454.1	1432.0	1418.0	1411.0
47.5°	1378.4	1359.8	1339.9	1323.6	1317.8
50°	1285.2	1265.4	1245.6	1230.4	1223.4
52.5°	1189.6	1169.8	1151.2	1138.4	1131.4
55°	1096.4	1075.5	1058.0	1042.8	1038.2
57.5°	1002.0	983.4	963.6	949.6	946.1
60°	906.5	890.2	870.4	857.6	854.1
62.5°	814.5	798.1	779.5	766.7	760.9
65°	721.2	704.9	687.4	677.0	673.5
67.5°	630.4	615.2	600.1	589.6	587.2
70°	543.0	527.8	513.8	504.5	501.0
72.5°	455.6	445.1	431.1	425.3	421.8
75°	372.9	361.2	351.9	350.7	346.1
77.5°	292.5	291.3	276.1	273.8	273.8
80°	216.7	213.2	205.1	202.7	206.2
82.5°	149.1	146.8	142.2	141.0	139.8
85°	89.7	89.7	88.6	82.7	82.7
87.5°	40.8	39.6	38.5	39.6	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)