

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: P995662

Luminaire Tested: 24D3X-LP-WD-90-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995662
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-L850.ies
Description: 2x4 D3X-LP AT 9000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

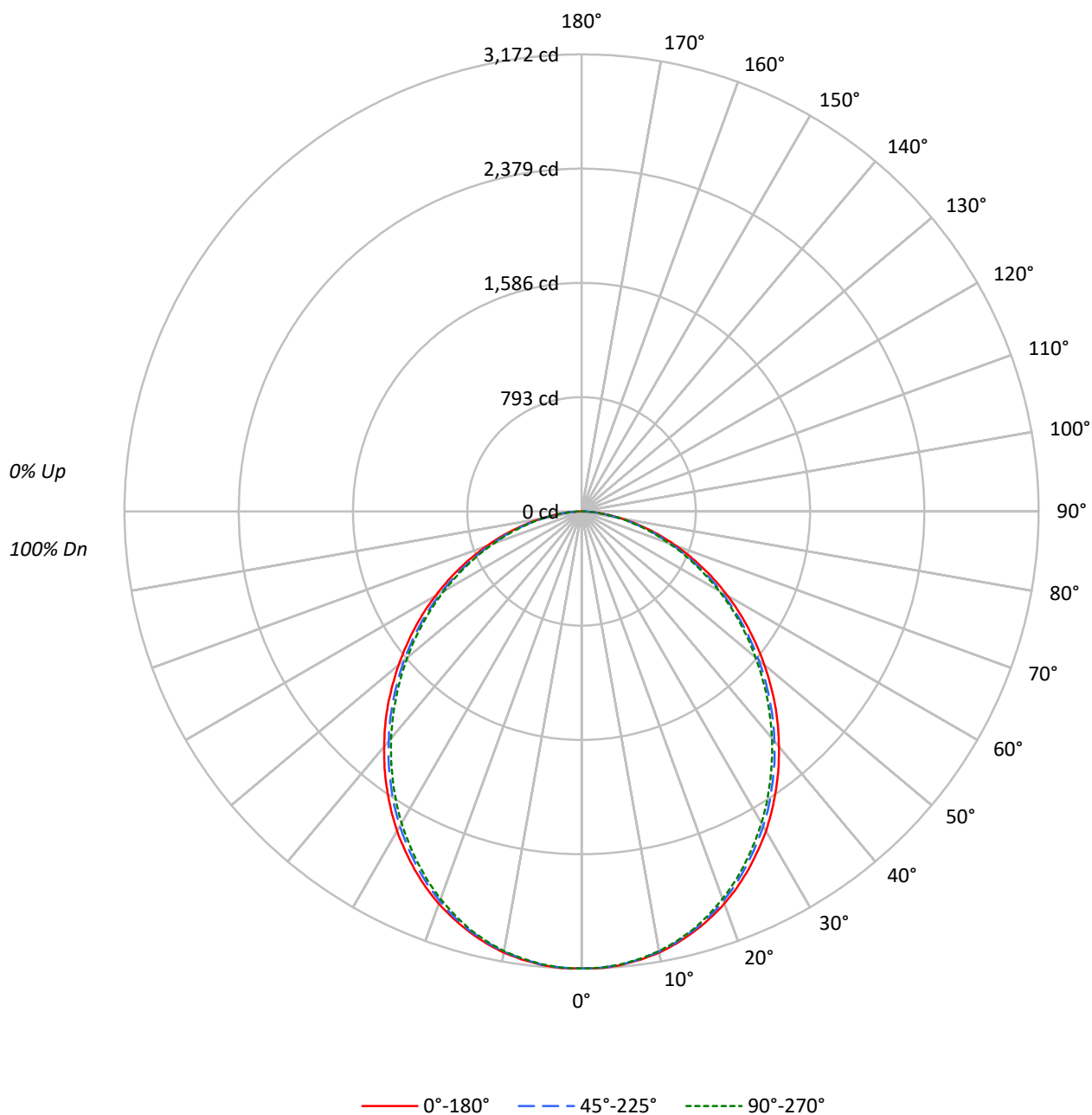
Lumens per Lamp: N/A
Luminaire Lumens: 7998.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4268	4268	4268
5°	4268	4264	4260
10°	4248	4238	4234
15°	4206	4191	4180
20°	4149	4121	4097
25°	4070	4025	3994
30°	3979	3918	3881
35°	3866	3792	3750
40°	3744	3657	3612
45°	3616	3513	3461
50°	3468	3361	3301
55°	3316	3199	3139
60°	3145	3019	2963
65°	2960	2821	2764
70°	2754	2606	2541
75°	2499	2358	2319
80°	2165	2049	2060
85°	1786	1763	1646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3616 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	3.7
10°-20°	848.0	10.6
20°-30°	1249.7	15.6
30°-40°	1446.7	18.1
40°-50°	1428.3	17.9
50°-60°	1223.3	15.3
60°-70°	884.5	11.1
70°-80°	487.6	6.1
80°-90°	131.3	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°	2397.3	30.0
0°-40°	3843.9	48.1
0°-60°	6495.5	81.2
0°-90°	7998.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7998.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3172	3172	3172	3172	3172	
5°	3160	3159	3157	3154	3154	300
15°	3019	3016	3009	3004	3001	851
25°	2741	2734	2711	2698	2690	1262
35°	2354	2339	2309	2289	2283	1472
45°	1900	1875	1846	1828	1819	1464
55°	1413	1386	1364	1344	1338	1263
65°	930	909	886	873	868	922
75°	481	466	454	452	446	510
85°	116	116	114	107	107	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3172.4	3172.4	3172.4	3172.4	3172.4
2.5°	3172.4	3172.4	3169.4	3169.4	3169.4
5°	3160.3	3158.8	3157.3	3154.3	3154.3
7.5°	3137.8	3137.8	3133.3	3133.3	3130.3
10°	3109.3	3106.3	3101.8	3101.8	3098.8
12.5°	3068.7	3065.7	3059.7	3058.2	3053.7
15°	3019.2	3016.1	3008.6	3004.1	3001.1
17.5°	2962.1	2957.6	2948.6	2941.0	2935.0
20°	2897.5	2891.5	2878.0	2868.9	2861.4
22.5°	2823.9	2817.9	2798.3	2787.8	2780.3
25°	2741.3	2733.8	2711.2	2697.7	2690.2
27.5°	2652.6	2643.6	2618.1	2603.1	2595.6
30°	2561.0	2547.5	2522.0	2503.9	2497.9
32.5°	2458.9	2445.4	2419.8	2398.8	2392.8
35°	2353.7	2338.7	2308.7	2289.1	2283.1
37.5°	2245.6	2226.1	2199.0	2179.5	2170.5
40°	2131.4	2111.9	2081.9	2060.8	2056.3
42.5°	2017.3	1993.2	1967.7	1946.7	1937.7
45°	1900.1	1874.6	1846.0	1828.0	1819.0
47.5°	1776.9	1752.9	1727.4	1706.3	1698.8
50°	1656.8	1631.2	1605.7	1586.2	1577.2
52.5°	1533.6	1508.1	1484.0	1467.5	1458.5
55°	1413.4	1386.4	1363.9	1344.3	1338.3
57.5°	1291.8	1267.7	1242.2	1224.2	1219.7
60°	1168.6	1147.6	1122.0	1105.5	1101.0
62.5°	1049.9	1028.9	1004.9	988.4	980.8
65°	929.8	908.8	886.2	872.7	868.2
67.5°	812.6	793.1	773.6	760.0	757.0
70°	700.0	680.4	662.4	650.4	645.9
72.5°	587.3	573.8	555.8	548.3	543.7
75°	480.7	465.6	453.6	452.1	446.1
77.5°	377.0	375.5	356.0	353.0	353.0
80°	279.4	274.9	264.4	261.4	265.9
82.5°	192.3	189.3	183.3	181.8	180.2
85°	115.7	115.7	114.2	106.6	106.6
87.5°	52.6	51.1	49.6	51.1	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)