

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: P601203

Luminaire Tested: 24D3X-LP-90-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601203
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-90-L930
Description: 2x4 D3X-LP AT 9000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

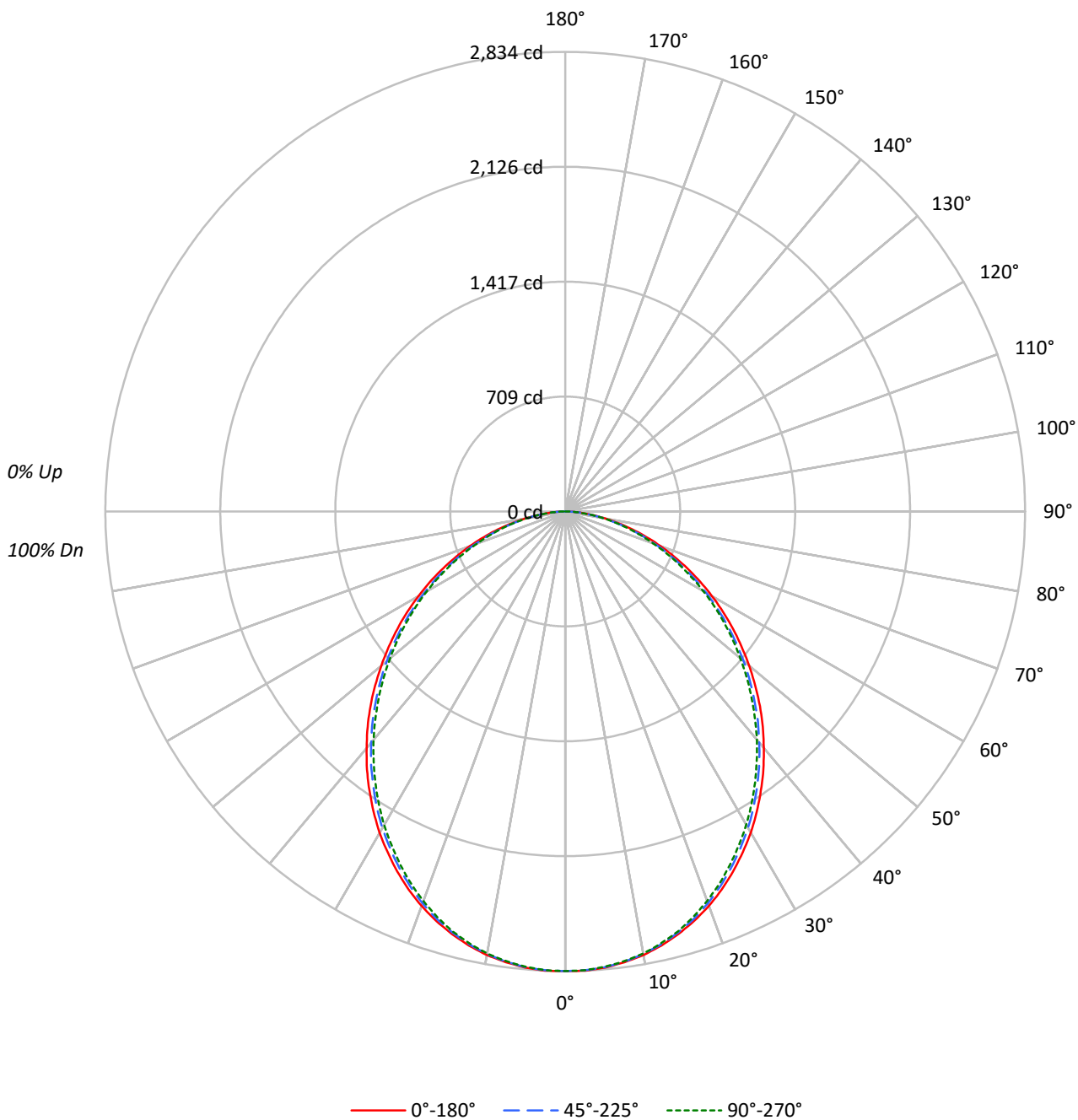
Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3813	3813	3813
5°	3813	3810	3806
10°	3795	3786	3782
15°	3757	3744	3735
20°	3706	3681	3660
25°	3636	3596	3568
30°	3555	3501	3467
35°	3454	3388	3350
40°	3345	3267	3227
45°	3230	3138	3092
50°	3098	3003	2949
55°	2962	2858	2805
60°	2809	2697	2647
65°	2644	2521	2469
70°	2460	2328	2270
75°	2232	2107	2072
80°	1934	1830	1840
85°	1595	1575	1471

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	3.7
10°-20°	757.6	10.6
20°-30°	1116.4	15.6
30°-40°	1292.4	18.1
40°-50°	1276.0	17.9
50°-60°	1092.9	15.3
60°-70°	790.2	11.1
70°-80°	435.6	6.1
80°-90°	117.3	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°	2141.7	30.0
0°-40°	3434.1	48.1
0°-60°	5803.0	81.2
0°-90°	7146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2834	2834	2834	2834	2834	
5°	2823	2822	2821	2818	2818	268
15°	2697	2694	2688	2684	2681	760
25°	2449	2442	2422	2410	2403	1128
35°	2103	2089	2062	2045	2040	1315
45°	1698	1675	1649	1633	1625	1308
55°	1263	1239	1218	1201	1196	1129
65°	831	812	792	780	776	824
75°	429	416	405	404	398	456
85°	103	103	102	95	95	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2834.1	2834.1	2834.1	2834.1	2834.1
2.5°	2834.1	2834.1	2831.4	2831.4	2831.4
5°	2823.4	2822.0	2820.7	2818.0	2818.0
7.5°	2803.2	2803.2	2799.2	2799.2	2796.5
10°	2777.7	2775.1	2771.0	2771.0	2768.4
12.5°	2741.5	2738.8	2733.5	2732.1	2728.1
15°	2697.2	2694.5	2687.8	2683.8	2681.1
17.5°	2646.2	2642.2	2634.2	2627.5	2622.1
20°	2588.5	2583.2	2571.1	2563.0	2556.3
22.5°	2522.8	2517.4	2500.0	2490.6	2483.9
25°	2449.0	2442.3	2422.1	2410.1	2403.4
27.5°	2369.8	2361.8	2338.9	2325.5	2318.8
30°	2288.0	2275.9	2253.1	2237.0	2231.6
32.5°	2196.7	2184.6	2161.8	2143.0	2137.7
35°	2102.8	2089.3	2062.5	2045.1	2039.7
37.5°	2006.2	1988.7	1964.6	1947.1	1939.1
40°	1904.2	1886.7	1859.9	1841.1	1837.1
42.5°	1802.2	1780.7	1757.9	1739.1	1731.1
45°	1697.5	1674.7	1649.2	1633.1	1625.0
47.5°	1587.5	1566.0	1543.2	1524.4	1517.7
50°	1480.1	1457.3	1434.5	1417.1	1409.0
52.5°	1370.1	1347.3	1325.8	1311.0	1303.0
55°	1262.7	1238.6	1218.5	1201.0	1195.6
57.5°	1154.0	1132.6	1109.8	1093.7	1089.6
60°	1044.0	1025.2	1002.4	987.6	983.6
62.5°	938.0	919.2	897.7	883.0	876.3
65°	830.6	811.9	791.7	779.6	775.6
67.5°	726.0	708.5	691.1	679.0	676.3
70°	625.3	607.9	591.8	581.0	577.0
72.5°	524.7	512.6	496.5	489.8	485.8
75°	429.4	416.0	405.3	403.9	398.5
77.5°	336.8	335.5	318.0	315.3	315.3
80°	249.6	245.6	236.2	233.5	237.5
82.5°	171.8	169.1	163.7	162.4	161.0
85°	103.3	103.3	102.0	95.3	95.3
87.5°	47.0	45.6	44.3	45.6	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)