

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: P601204

Luminaire Tested: 24D3X-LP-90-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601204
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-L935
Description: 2x4 D3X-LP AT 9000LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

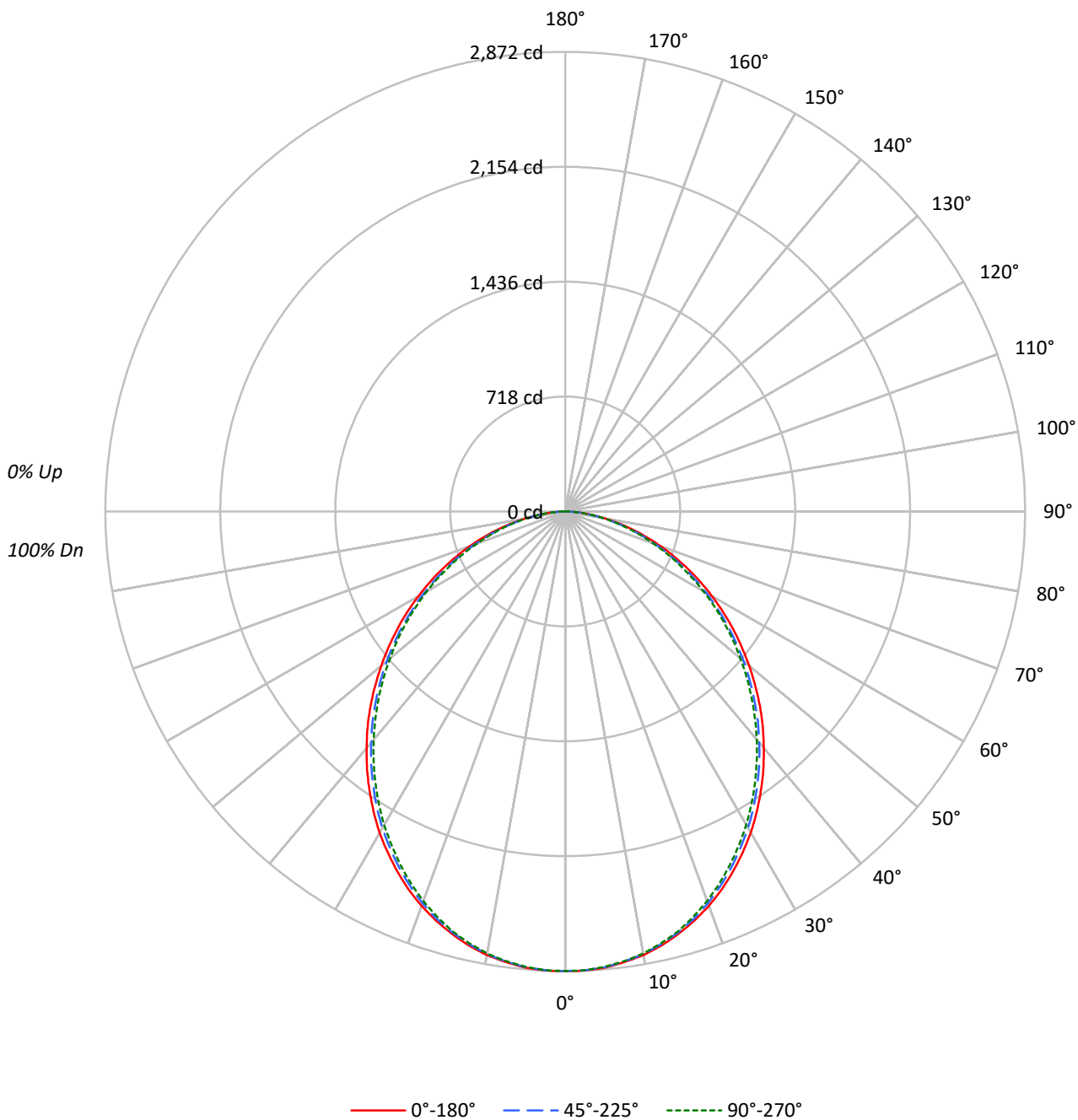
Lumens per Lamp: N/A
Luminaire Lumens: 7241.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	31	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°	3864	3864	3864
5°	3864	3860	3857
10°	3846	3836	3833
15°	3807	3794	3784
20°	3756	3730	3709
25°	3684	3644	3615
30°	3602	3547	3513
35°	3500	3433	3395
40°	3389	3310	3270
45°	3273	3180	3133
50°	3139	3043	2988
55°	3001	2896	2842
60°	2847	2733	2682
65°	2680	2554	2502
70°	2493	2359	2300
75°	2262	2135	2099
80°	1960	1854	1865
85°	1616	1595	1490

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	3.7
10°-20°	767.6	10.6
20°-30°	1131.3	15.6
30°-40°	1309.6	18.1
40°-50°	1292.9	17.9
50°-60°	1107.4	15.3
60°-70°	800.7	11.1
70°-80°	441.4	6.1
80°-90°	118.8	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°	2170.1	30.0
0°-40°	3479.7	48.1
0°-60°	5880.1	81.2
0°-90°	7241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2861	2860	2858	2856	2856	272
15°	2733	2730	2724	2720	2717	770
25°	2482	2475	2454	2442	2435	1143
35°	2131	2117	2090	2072	2067	1332
45°	1720	1697	1671	1655	1647	1325
55°	1280	1255	1235	1217	1212	1144
65°	842	823	802	790	786	834
75°	435	422	411	409	404	462
85°	105	105	103	96	96	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2871.8	2871.8	2871.8	2871.8	2871.8
2.5°	2871.8	2871.8	2869.1	2869.1	2869.1
5°	2860.9	2859.5	2858.2	2855.5	2855.5
7.5°	2840.5	2840.5	2836.4	2836.4	2833.7
10°	2814.7	2812.0	2807.9	2807.9	2805.2
12.5°	2778.0	2775.2	2769.8	2768.4	2764.4
15°	2733.1	2730.4	2723.6	2719.5	2716.8
17.5°	2681.4	2677.3	2669.2	2662.4	2656.9
20°	2623.0	2617.5	2605.3	2597.1	2590.3
22.5°	2556.3	2550.9	2533.2	2523.7	2516.9
25°	2481.5	2474.7	2454.3	2442.1	2435.3
27.5°	2401.3	2393.2	2370.0	2356.4	2349.6
30°	2318.4	2306.1	2283.0	2266.7	2261.3
32.5°	2225.9	2213.7	2190.6	2171.5	2166.1
35°	2130.7	2117.1	2089.9	2072.3	2066.8
37.5°	2032.8	2015.1	1990.7	1973.0	1964.8
40°	1929.5	1911.8	1884.6	1865.6	1861.5
42.5°	1826.1	1804.4	1781.3	1762.2	1754.1
45°	1720.1	1697.0	1671.1	1654.8	1646.7
47.5°	1608.6	1586.8	1563.7	1544.7	1537.9
50°	1499.8	1476.7	1453.6	1435.9	1427.7
52.5°	1388.3	1365.2	1343.4	1328.5	1320.3
55°	1279.5	1255.0	1234.6	1217.0	1211.5
57.5°	1169.4	1147.6	1124.5	1108.2	1104.1
60°	1057.9	1038.8	1015.7	1000.8	996.7
62.5°	950.5	931.4	909.7	894.7	887.9
65°	841.7	822.6	802.3	790.0	785.9
67.5°	735.6	717.9	700.3	688.0	685.3
70°	633.6	616.0	599.6	588.8	584.7
72.5°	531.7	519.4	503.1	496.3	492.2
75°	435.1	421.5	410.6	409.3	403.8
77.5°	341.3	339.9	322.3	319.5	319.5
80°	252.9	248.8	239.3	236.6	240.7
82.5°	174.0	171.3	165.9	164.5	163.2
85°	104.7	104.7	103.3	96.5	96.5
87.5°	47.6	46.2	44.9	46.2	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)