

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: P601200

Luminaire Tested: 24D3X-LP-90-L830

Issue Date: 10/6/2023

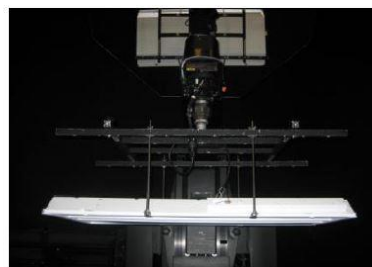
Test Information

Test Method: LM-79-2019
Report Number: P601200
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-L830
Description: 2x4 D3X-LP AT 9000LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

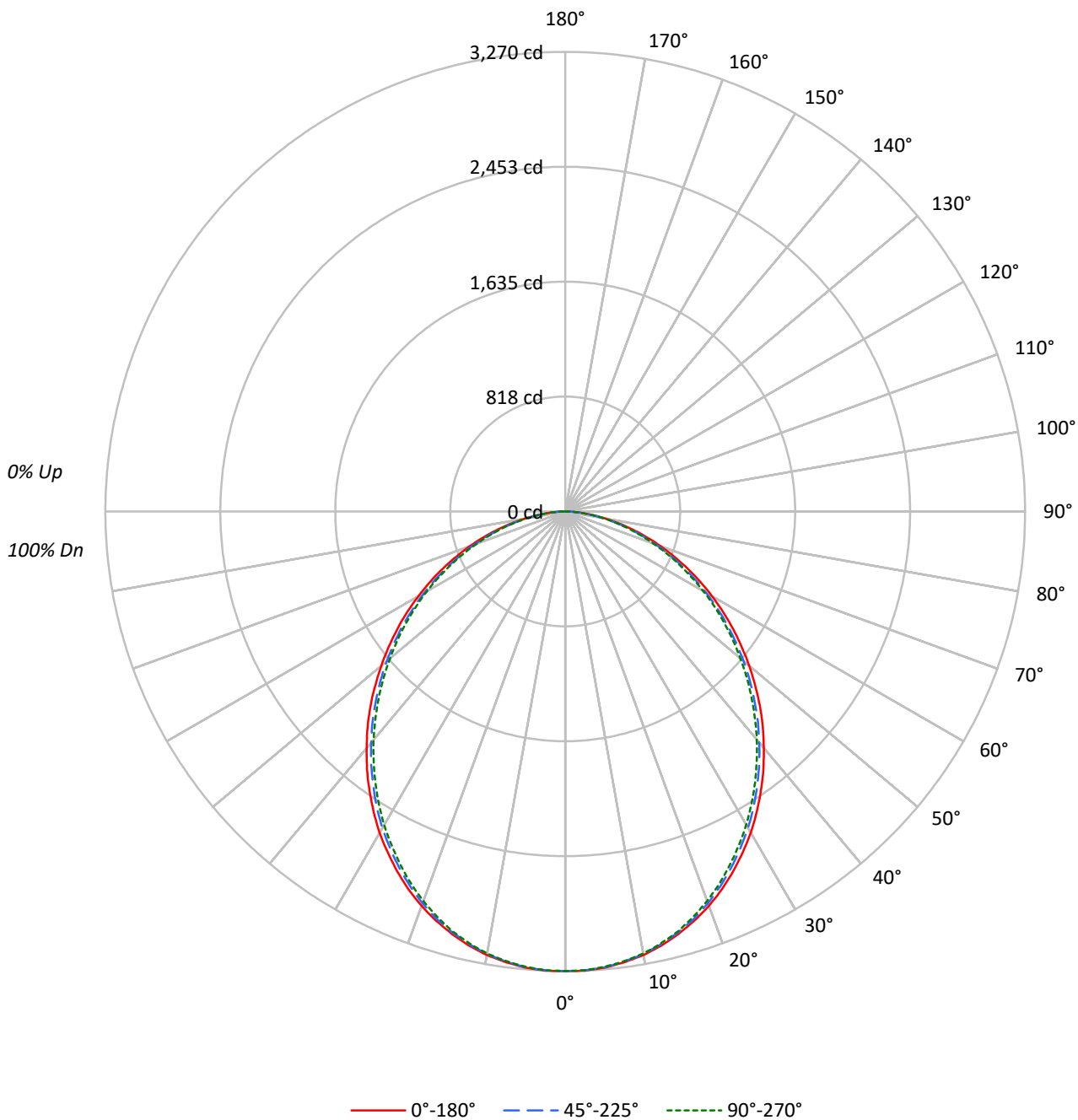
Lumens per Lamp: N/A
Luminaire Lumens: 8245.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4400	4400	4400
5°	4400	4396	4391
10°	4379	4368	4364
15°	4335	4320	4309
20°	4276	4248	4223
25°	4195	4149	4117
30°	4101	4039	4000
35°	3985	3909	3866
40°	3859	3769	3723
45°	3727	3621	3568
50°	3575	3464	3403
55°	3418	3298	3236
60°	3242	3112	3054
65°	3051	2908	2849
70°	2838	2686	2619
75°	2576	2431	2390
80°	2232	2111	2123
85°	1840	1817	1697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	3.7
10°-20°	874.1	10.6
20°-30°	1288.1	15.6
30°-40°	1491.2	18.1
40°-50°	1472.2	17.9
50°-60°	1261.0	15.3
60°-70°	911.7	11.1
70°-80°	502.6	6.1
80°-90°	135.3	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°	2471.0	30.0
0°-40°	3962.2	48.1
0°-60°	6695.4	81.2
0°-90°	8245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3270	3270	3270	3270	3270	
5°	3258	3256	3254	3251	3251	309
15°	3112	3109	3101	3097	3094	877
25°	2826	2818	2795	2781	2773	1301
35°	2426	2411	2380	2360	2353	1517
45°	1959	1932	1903	1884	1875	1509
55°	1457	1429	1406	1386	1380	1302
65°	958	937	914	900	895	950
75°	496	480	468	466	460	526
85°	119	119	118	110	110	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3270.0	3270.0	3270.0	3270.0	3270.0
2.5°	3270.0	3270.0	3266.9	3266.9	3266.9
5°	3257.6	3256.0	3254.5	3251.4	3251.4
7.5°	3234.4	3234.4	3229.7	3229.7	3226.6
10°	3204.9	3201.8	3197.2	3197.2	3194.1
12.5°	3163.1	3160.0	3153.8	3152.3	3147.7
15°	3112.0	3108.9	3101.2	3096.6	3093.5
17.5°	3053.2	3048.6	3039.3	3031.5	3025.3
20°	2986.6	2980.4	2966.5	2957.2	2949.5
22.5°	2910.8	2904.6	2884.4	2873.6	2865.9
25°	2825.6	2817.9	2794.6	2780.7	2773.0
27.5°	2734.3	2725.0	2698.7	2683.2	2675.4
30°	2639.8	2625.9	2599.6	2581.0	2574.8
32.5°	2534.5	2520.6	2494.3	2472.6	2466.4
35°	2426.2	2410.7	2379.7	2359.6	2353.4
37.5°	2314.7	2294.6	2266.7	2246.6	2237.3
40°	2197.0	2176.9	2145.9	2124.2	2119.6
42.5°	2079.3	2054.6	2028.2	2006.6	1997.3
45°	1958.6	1932.3	1902.8	1884.3	1875.0
47.5°	1831.6	1806.8	1780.5	1758.8	1751.1
50°	1707.8	1681.4	1655.1	1635.0	1625.7
52.5°	1580.8	1554.5	1529.7	1512.7	1503.4
55°	1456.9	1429.1	1405.8	1385.7	1379.5
57.5°	1331.5	1306.7	1280.4	1261.8	1257.2
60°	1204.6	1182.9	1156.6	1139.5	1134.9
62.5°	1082.2	1060.6	1035.8	1018.8	1011.0
65°	958.4	936.7	913.5	899.6	894.9
67.5°	837.6	817.5	797.4	783.4	780.3
70°	721.5	701.4	682.8	670.4	665.8
72.5°	605.4	591.4	572.9	565.1	560.5
75°	495.5	480.0	467.6	466.0	459.8
77.5°	388.6	387.1	366.9	363.8	363.8
80°	288.0	283.3	272.5	269.4	274.0
82.5°	198.2	195.1	188.9	187.3	185.8
85°	119.2	119.2	117.7	109.9	109.9
87.5°	54.2	52.6	51.1	52.6	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)