

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: P601201

Luminaire Tested: 24D3X-LP-90-L835

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601201
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-L835
Description: 2x4 D3X-LP AT 9000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

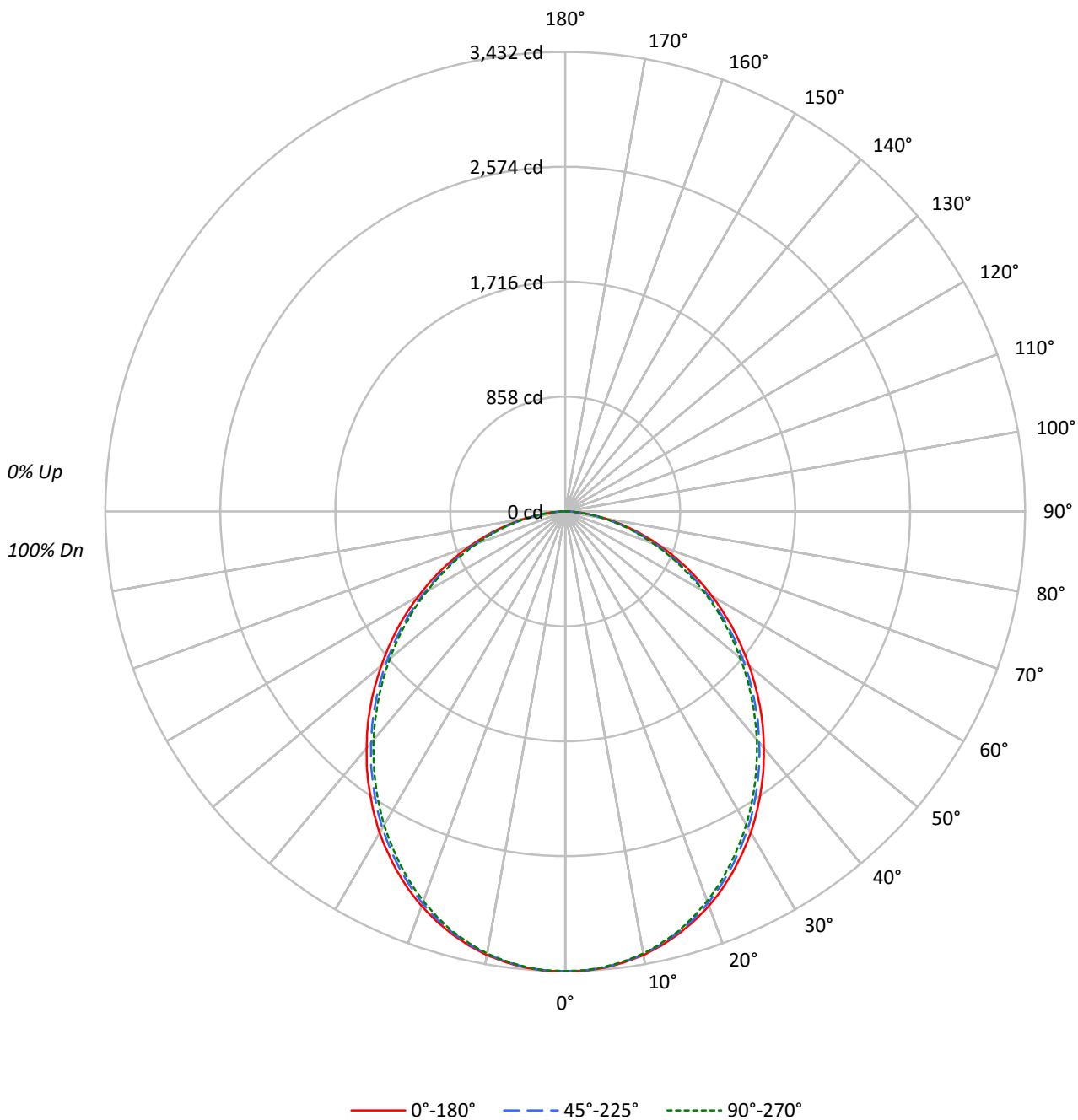
Lumens per Lamp: N/A
Luminaire Lumens: 8654.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4618	4618	4618
5°	4618	4614	4609
10°	4596	4585	4580
15°	4550	4534	4523
20°	4489	4458	4433
25°	4403	4355	4321
30°	4305	4239	4199
35°	4183	4103	4057
40°	4050	3956	3907
45°	3912	3800	3745
50°	3752	3636	3572
55°	3587	3461	3397
60°	3402	3267	3205
65°	3202	3053	2990
70°	2979	2819	2749
75°	2703	2551	2509
80°	2342	2216	2228
85°	1931	1907	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3912 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	3.7
10°-20°	917.4	10.6
20°-30°	1352.0	15.6
30°-40°	1565.2	18.1
40°-50°	1545.2	17.9
50°-60°	1323.6	15.3
60°-70°	956.9	11.1
70°-80°	527.5	6.1
80°-90°	142.0	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°	2593.6	30.0
0°-40°	4158.8	48.1
0°-60°	7027.6	81.2
0°-90°	8654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3432	3432	3432	3432	3432	
5°	3419	3418	3416	3413	3413	325
15°	3266	3263	3255	3250	3247	921
25°	2966	2958	2933	2919	2910	1366
35°	2546	2530	2498	2477	2470	1592
45°	2056	2028	1997	1978	1968	1584
55°	1529	1500	1476	1454	1448	1367
65°	1006	983	959	944	939	997
75°	520	504	491	489	483	552
85°	125	125	124	115	115	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3432.2	3432.2	3432.2	3432.2	3432.2
2.5°	3432.2	3432.2	3428.9	3428.9	3428.9
5°	3419.2	3417.6	3415.9	3412.7	3412.7
7.5°	3394.8	3394.8	3389.9	3389.9	3386.7
10°	3363.9	3360.7	3355.8	3355.8	3352.6
12.5°	3320.0	3316.8	3310.3	3308.7	3303.8
15°	3266.4	3263.2	3255.0	3250.2	3246.9
17.5°	3204.7	3199.8	3190.0	3181.9	3175.4
20°	3134.8	3128.3	3113.7	3103.9	3095.8
22.5°	3055.2	3048.7	3027.5	3016.2	3008.0
25°	2965.8	2957.7	2933.3	2918.7	2910.5
27.5°	2869.9	2860.1	2832.5	2816.3	2808.1
30°	2770.8	2756.1	2728.5	2709.0	2702.5
32.5°	2660.3	2645.6	2618.0	2595.3	2588.8
35°	2546.5	2530.3	2497.8	2476.6	2470.1
37.5°	2429.5	2408.4	2379.1	2358.0	2348.2
40°	2306.0	2284.9	2252.4	2229.6	2224.7
42.5°	2182.5	2156.5	2128.9	2106.1	2096.4
45°	2055.7	2028.1	1997.2	1977.7	1968.0
47.5°	1922.5	1896.5	1868.8	1846.1	1838.0
50°	1792.5	1764.8	1737.2	1716.1	1706.3
52.5°	1659.2	1631.6	1605.6	1587.7	1578.0
55°	1529.2	1500.0	1475.6	1454.5	1448.0
57.5°	1397.6	1371.6	1343.9	1324.4	1319.6
60°	1264.3	1241.6	1213.9	1196.1	1191.2
62.5°	1135.9	1113.2	1087.2	1069.3	1061.2
65°	1005.9	983.2	958.8	944.2	939.3
67.5°	879.2	858.0	836.9	822.3	819.0
70°	757.3	736.2	716.7	703.7	698.8
72.5°	635.4	620.8	601.3	593.2	588.3
75°	520.0	503.8	490.8	489.2	482.7
77.5°	407.9	406.3	385.1	381.9	381.9
80°	302.3	297.4	286.0	282.8	287.6
82.5°	208.0	204.8	198.3	196.6	195.0
85°	125.1	125.1	123.5	115.4	115.4
87.5°	56.9	55.3	53.6	55.3	60.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)