

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: P995571

Luminaire Tested: 22D3X-LP-WD-80-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-80-L840.ies
Description: 2x2 D3X-LP AT 8000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

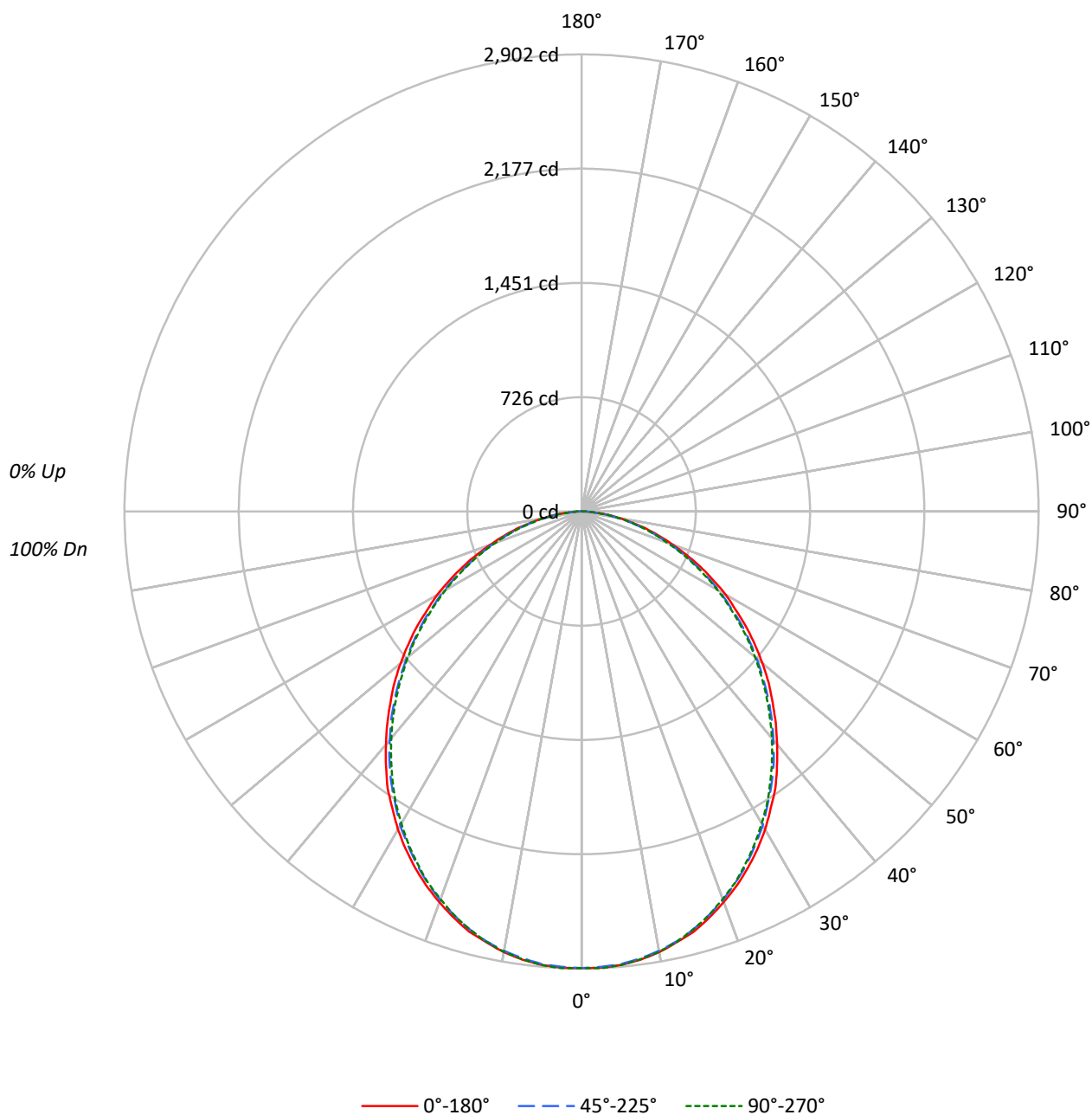
Lumens per Lamp: N/A
Luminaire Lumens: 7245.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
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	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	7803	7803	7803
5°	7809	7794	7809
10°	7765	7742	7758
15°	7692	7652	7652
20°	7559	7518	7501
25°	7418	7349	7323
30°	7242	7152	7108
35°	7049	6916	6869
40°	6787	6655	6604
45°	6529	6375	6320
50°	6275	6069	6021
55°	5989	5772	5691
60°	5689	5440	5363
65°	5296	5039	4984
70°	4840	4659	4544
75°	4414	4144	4173
80°	3804	3580	3625
85°	2942	2853	2674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	3.8
10°-20°	774.5	10.7
20°-30°	1140.7	15.7
30°-40°	1319.5	18.2
40°-50°	1297.2	17.9
50°-60°	1105.5	15.3
60°-70°	792.1	10.9
70°-80°	430.2	5.9
80°-90°	112.2	1.5
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°	2189.0	30.2
0°-40°	3508.5	48.4
0°-60°	5911.3	81.6
0°-90°	7245.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7245.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2900	2900	2900	2900	2900	
5°	2891	2885	2885	2885	2891	274
15°	2761	2749	2747	2744	2747	777
25°	2498	2487	2475	2469	2466	1150
35°	2146	2128	2105	2094	2091	1338
45°	1716	1704	1675	1661	1661	1325
55°	1276	1253	1230	1216	1213	1140
65°	832	814	791	783	783	824
75°	424	410	399	393	401	448
85°	95	95	92	90	87	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2899.6	2899.6	2899.6	2899.6	2899.6
2.5°	2899.6	2896.7	2893.9	2896.7	2902.5
5°	2891.0	2885.2	2885.2	2885.2	2891.0
7.5°	2870.7	2865.0	2862.1	2865.0	2867.9
10°	2841.9	2836.1	2833.2	2836.1	2839.0
12.5°	2801.4	2798.5	2795.7	2795.7	2798.5
15°	2761.0	2749.4	2746.6	2743.7	2746.6
17.5°	2703.2	2700.4	2688.8	2688.8	2688.8
20°	2639.7	2633.9	2625.3	2619.5	2619.5
22.5°	2573.3	2567.5	2553.1	2547.3	2550.2
25°	2498.2	2486.6	2475.1	2469.3	2466.4
27.5°	2417.3	2405.8	2388.4	2379.8	2379.8
30°	2330.7	2322.0	2301.8	2290.2	2287.4
32.5°	2235.4	2229.6	2200.7	2194.9	2194.9
35°	2145.8	2128.5	2105.4	2093.9	2091.0
37.5°	2039.0	2027.4	2004.3	1989.9	1987.0
40°	1932.1	1917.7	1894.6	1883.0	1880.1
42.5°	1825.3	1810.8	1787.7	1773.3	1770.4
45°	1715.5	1704.0	1675.1	1660.6	1660.6
47.5°	1611.5	1588.4	1562.4	1550.9	1548.0
50°	1498.9	1478.7	1449.8	1438.3	1438.3
52.5°	1386.3	1371.8	1340.1	1334.3	1328.5
55°	1276.5	1253.4	1230.3	1215.9	1213.0
57.5°	1158.1	1137.9	1114.8	1103.2	1103.2
60°	1057.0	1031.0	1010.8	996.4	996.4
62.5°	941.5	918.4	898.2	889.5	886.6
65°	831.8	814.4	791.3	782.7	782.7
67.5°	722.0	707.6	687.4	678.7	681.6
70°	615.2	606.5	592.1	580.5	577.6
72.5°	517.0	505.4	491.0	488.1	488.1
75°	424.5	410.1	398.6	392.8	401.4
77.5°	329.2	320.6	314.8	311.9	314.8
80°	245.5	233.9	231.0	233.9	233.9
82.5°	170.4	164.6	161.7	161.7	161.7
85°	95.3	95.3	92.4	89.5	86.6
87.5°	37.5	37.5	40.4	40.4	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)