

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: P601135

Luminaire Tested: 22D3X-LP-70-L835

Issue Date: 10/5/2023

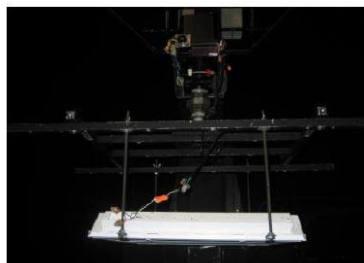
Test Information

Test Method: LM-79-2019
Report Number: P601135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-70-L835
Description: 2x2 D3X-LP AT 7000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

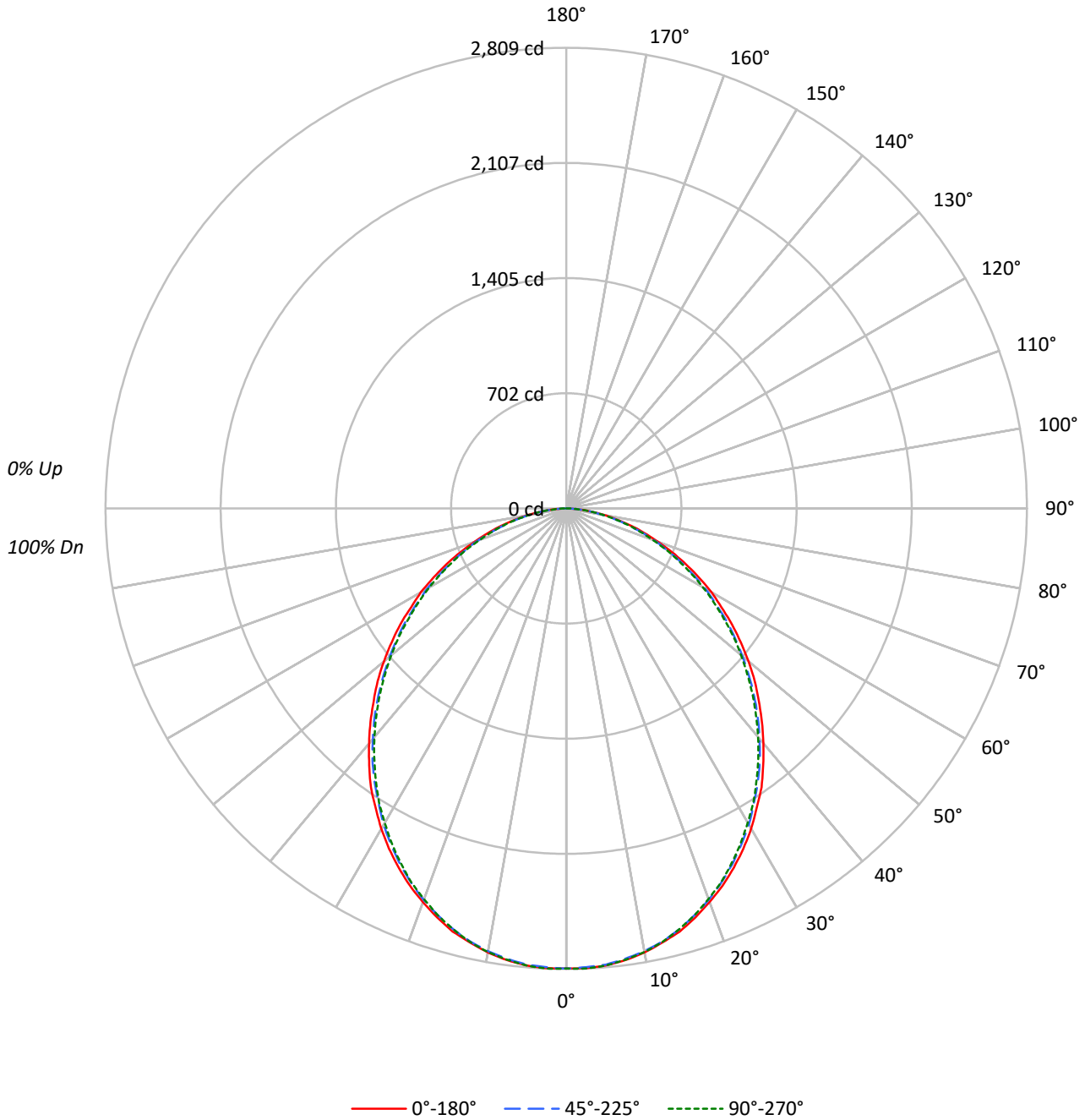
Lumens per Lamp: N/A
Luminaire Lumens: 7012.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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	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°	7551	7551	7551
5°	7557	7542	7557
10°	7515	7492	7507
15°	7444	7405	7405
20°	7315	7275	7259
25°	7178	7112	7087
30°	7008	6921	6878
35°	6822	6693	6647
40°	6568	6440	6391
45°	6318	6169	6116
50°	6072	5874	5827
55°	5796	5586	5507
60°	5505	5265	5189
65°	5125	4876	4823
70°	4684	4508	4398
75°	4271	4010	4039
80°	3682	3465	3508
85°	2847	2760	2587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	3.8
10°-20°	749.5	10.7
20°-30°	1103.8	15.7
30°-40°	1276.9	18.2
40°-50°	1255.3	17.9
50°-60°	1069.8	15.3
60°-70°	766.6	10.9
70°-80°	416.3	5.9
80°-90°	108.6	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°	2118.4	30.2
0°-40°	3395.3	48.4
0°-60°	5720.5	81.6
0°-90°	7012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2798	2792	2792	2792	2798	265
15°	2672	2661	2658	2655	2658	752
25°	2418	2406	2395	2390	2387	1113
35°	2077	2060	2037	2026	2024	1295
45°	1660	1649	1621	1607	1607	1282
55°	1235	1213	1191	1177	1174	1103
65°	805	788	766	757	757	797
75°	411	397	386	380	388	434
85°	92	92	89	87	84	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2806.0	2806.0	2806.0	2806.0	2806.0
2.5°	2806.0	2803.2	2800.4	2803.2	2808.8
5°	2797.6	2792.1	2792.1	2792.1	2797.6
7.5°	2778.1	2772.5	2769.7	2772.5	2775.3
10°	2750.1	2744.5	2741.7	2744.5	2747.3
12.5°	2711.0	2708.2	2705.4	2705.4	2708.2
15°	2671.9	2660.7	2657.9	2655.1	2657.9
17.5°	2616.0	2613.2	2602.0	2602.0	2602.0
20°	2554.5	2548.9	2540.5	2534.9	2534.9
22.5°	2490.2	2484.6	2470.6	2465.1	2467.9
25°	2417.5	2406.4	2395.2	2389.6	2386.8
27.5°	2339.3	2328.1	2311.3	2303.0	2303.0
30°	2255.4	2247.1	2227.5	2216.3	2213.5
32.5°	2163.2	2157.6	2129.7	2124.1	2124.1
35°	2076.6	2059.8	2037.4	2026.3	2023.5
37.5°	1973.2	1962.0	1939.6	1925.7	1922.9
40°	1869.8	1855.8	1833.4	1822.2	1819.4
42.5°	1766.3	1752.4	1730.0	1716.0	1713.2
45°	1660.1	1649.0	1621.0	1607.0	1607.0
47.5°	1559.5	1537.2	1512.0	1500.8	1498.0
50°	1450.5	1431.0	1403.0	1391.8	1391.8
52.5°	1341.5	1327.6	1296.8	1291.2	1285.6
55°	1235.3	1213.0	1190.6	1176.6	1173.8
57.5°	1120.7	1101.2	1078.8	1067.6	1067.6
60°	1022.9	997.8	978.2	964.2	964.2
62.5°	911.1	888.8	869.2	860.8	858.0
65°	804.9	788.1	765.8	757.4	757.4
67.5°	698.7	684.7	665.2	656.8	659.6
70°	595.3	586.9	572.9	561.8	559.0
72.5°	500.3	489.1	475.1	472.3	472.3
75°	410.8	396.9	385.7	380.1	388.5
77.5°	318.6	310.2	304.6	301.8	304.6
80°	237.6	226.4	223.6	226.4	226.4
82.5°	164.9	159.3	156.5	156.5	156.5
85°	92.2	92.2	89.4	86.6	83.8
87.5°	36.3	36.3	39.1	39.1	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)