

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: P995562

Luminaire Tested: 22D3X-LP-WD-70-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995562
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-70-L840.ies
Description: 2x2 D3X-LP AT 7000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

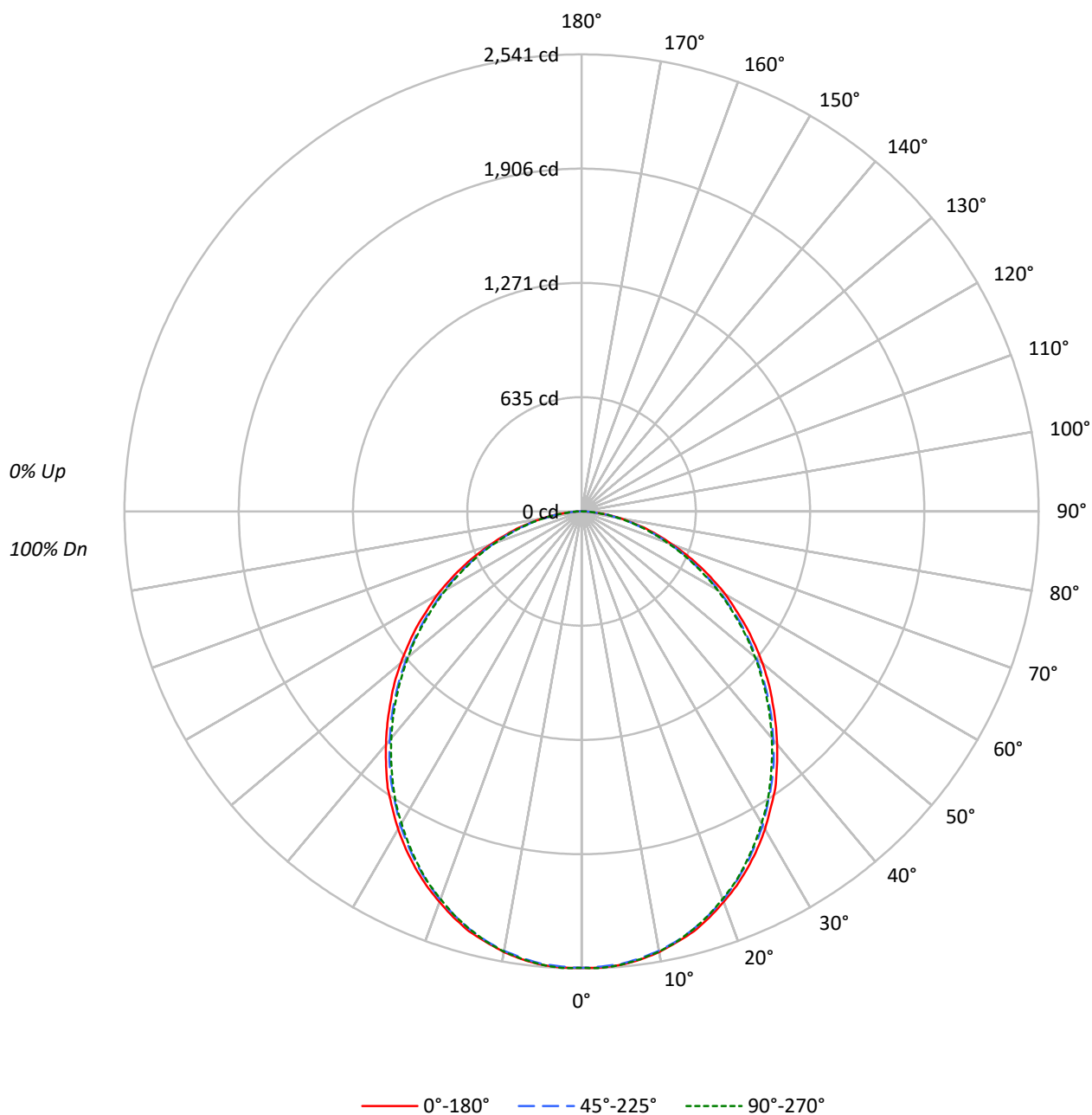
Lumens per Lamp: N/A
Luminaire Lumens: 6342.3 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P995562

CATALOG NUMBER: 22D3X-LP-WD-70-L840.ies

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°	6830	6830	6830
5°	6835	6822	6835
10°	6797	6776	6790
15°	6733	6698	6698
20°	6617	6580	6566
25°	6492	6432	6410
30°	6339	6261	6221
35°	6170	6054	6012
40°	5941	5825	5781
45°	5715	5580	5532
50°	5493	5313	5270
55°	5242	5052	4981
60°	4979	4762	4694
65°	4635	4410	4362
70°	4236	4077	3978
75°	3864	3628	3654
80°	3330	3133	3174
85°	2575	2498	2340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5715 cd/sqm

TEST NUMBER: P995562

CATALOG NUMBER: 22D3X-LP-WD-70-L840.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	3.8
10°-20°	677.9	10.7
20°-30°	998.4	15.7
30°-40°	1155.0	18.2
40°-50°	1135.5	17.9
50°-60°	967.7	15.3
60°-70°	693.4	10.9
70°-80°	376.6	5.9
80°-90°	98.2	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°	1916.0	30.2
0°-40°	3071.0	48.4
0°-60°	5174.1	81.6
0°-90°	6342.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6342.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2538	2538	2538	2538	2538	
5°	2530	2525	2525	2525	2530	240
15°	2417	2407	2404	2402	2404	680
25°	2187	2176	2166	2161	2159	1007
35°	1878	1863	1843	1833	1830	1171
45°	1502	1492	1466	1454	1454	1160
55°	1117	1097	1077	1064	1062	998
65°	728	713	693	685	685	721
75°	372	359	349	344	351	393
85°	83	83	81	78	76	101
90°	0	0	0	0	0	

TEST NUMBER: P995562

CATALOG NUMBER: 22D3X-LP-WD-70-L840.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2538.0	2538.0	2538.0	2538.0	2538.0
2.5°	2538.0	2535.5	2533.0	2535.5	2540.6
5°	2530.4	2525.4	2525.4	2525.4	2530.4
7.5°	2512.8	2507.7	2505.2	2507.7	2510.2
10°	2487.5	2482.4	2479.9	2482.4	2484.9
12.5°	2452.1	2449.6	2447.0	2447.0	2449.6
15°	2416.7	2406.6	2404.1	2401.5	2404.1
17.5°	2366.1	2363.6	2353.5	2353.5	2353.5
20°	2310.5	2305.5	2297.9	2292.8	2292.8
22.5°	2252.4	2247.3	2234.7	2229.6	2232.2
25°	2186.6	2176.5	2166.4	2161.4	2158.8
27.5°	2115.9	2105.8	2090.6	2083.0	2083.0
30°	2040.0	2032.4	2014.8	2004.6	2002.1
32.5°	1956.6	1951.6	1926.3	1921.2	1921.2
35°	1878.2	1863.1	1842.9	1832.7	1830.2
37.5°	1784.7	1774.6	1754.4	1741.7	1739.2
40°	1691.2	1678.5	1658.3	1648.2	1645.7
42.5°	1597.6	1585.0	1564.8	1552.1	1549.6
45°	1501.6	1491.5	1466.2	1453.6	1453.6
47.5°	1410.6	1390.4	1367.6	1357.5	1355.0
50°	1312.0	1294.3	1269.0	1258.9	1258.9
52.5°	1213.4	1200.8	1173.0	1167.9	1162.8
55°	1117.3	1097.1	1076.9	1064.3	1061.7
57.5°	1013.7	996.0	975.8	965.7	965.7
60°	925.2	902.5	884.8	872.1	872.1
62.5°	824.1	803.9	786.2	778.6	776.1
65°	728.0	712.9	692.6	685.1	685.1
67.5°	632.0	619.3	601.6	594.1	596.6
70°	538.4	530.9	518.2	508.1	505.6
72.5°	452.5	442.4	429.7	427.2	427.2
75°	371.6	359.0	348.9	343.8	351.4
77.5°	288.2	280.6	275.5	273.0	275.5
80°	214.9	204.8	202.2	204.8	204.8
82.5°	149.1	144.1	141.6	141.6	141.6
85°	83.4	83.4	80.9	78.4	75.8
87.5°	32.9	32.9	35.4	35.4	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)