

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: P995542

Luminaire Tested: 22D3X-LP-WD-55-L830.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995542
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-55-L830.ies
Description: 2x2 D3X-LP AT 5500LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

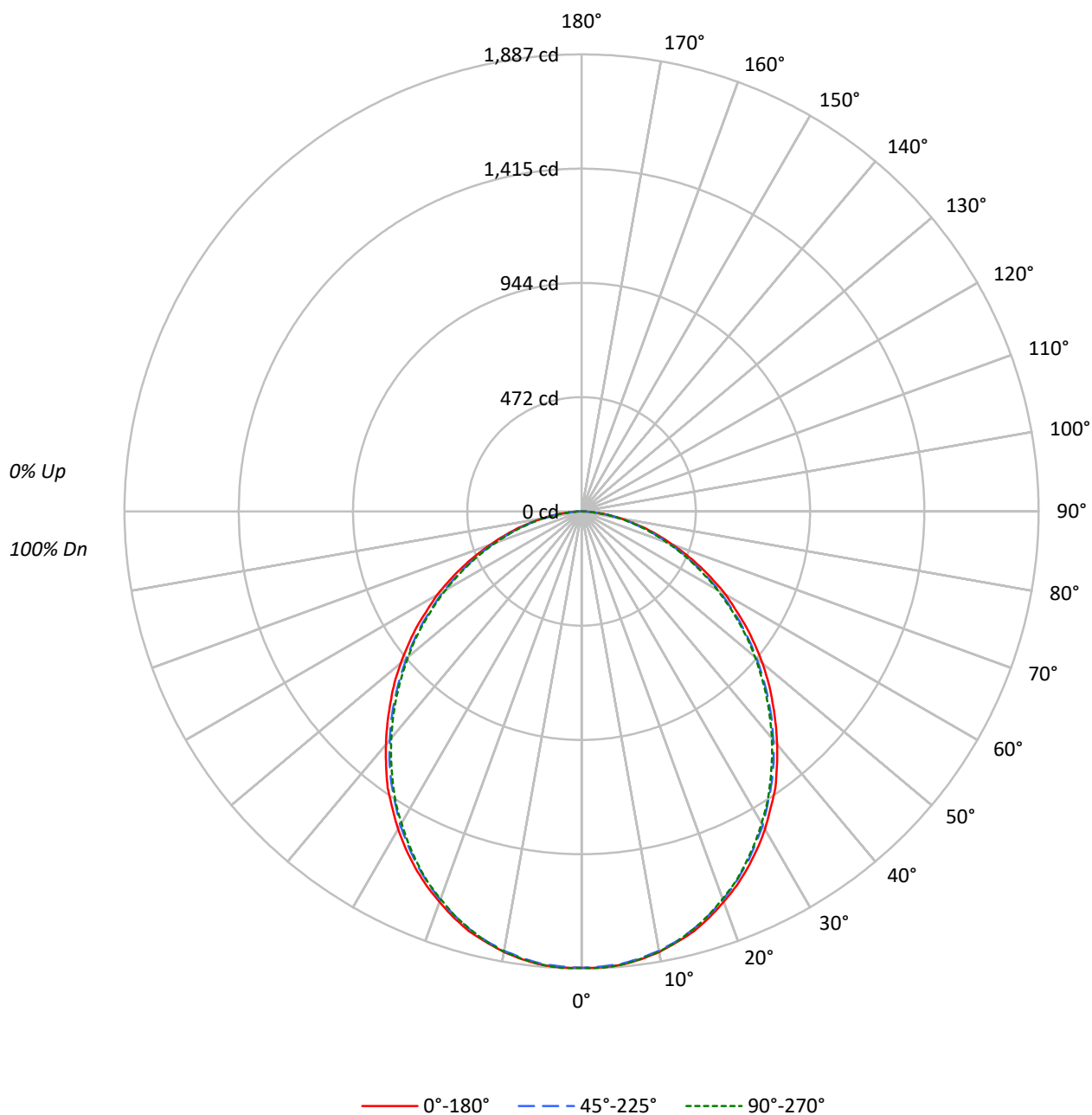
Lumens per Lamp: N/A
Luminaire Lumens: 4709.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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

TEST NUMBER: P995542

CATALOG NUMBER: 22D3X-LP-WD-55-L830.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995542

CATALOG NUMBER: 22D3X-LP-WD-55-L830.ies

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		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5072	5072	5072
5°	5076	5066	5076
10°	5047	5032	5042
15°	5000	4973	4973
20°	4914	4887	4876
25°	4821	4777	4760
30°	4707	4649	4620
35°	4582	4496	4465
40°	4411	4326	4293
45°	4244	4144	4108
50°	4079	3945	3913
55°	3893	3752	3699
60°	3698	3536	3485
65°	3442	3275	3239
70°	3146	3028	2954
75°	2869	2694	2713
80°	2473	2328	2357
85°	1911	1856	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4244 cd/sqm

TEST NUMBER: P995542

CATALOG NUMBER: 22D3X-LP-WD-55-L830.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	3.8
10°-20°	503.4	10.7
20°-30°	741.4	15.7
30°-40°	857.7	18.2
40°-50°	843.2	17.9
50°-60°	718.6	15.3
60°-70°	514.9	10.9
70°-80°	279.6	5.9
80°-90°	73.0	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°	1422.8	30.2
0°-40°	2280.5	48.4
0°-60°	3842.3	81.6
0°-90°	4709.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4709.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1879	1875	1875	1875	1879	178
15°	1795	1787	1785	1783	1785	505
25°	1624	1616	1609	1605	1603	747
35°	1395	1384	1368	1361	1359	870
45°	1115	1108	1089	1079	1079	861
55°	830	815	800	790	788	741
65°	541	529	514	509	509	536
75°	276	267	259	255	261	291
85°	62	62	60	58	56	75
90°	0	0	0	0	0	

TEST NUMBER: P995542

CATALOG NUMBER: 22D3X-LP-WD-55-L830.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1884.7	1882.8	1881.0	1882.8	1886.6
5°	1879.1	1875.3	1875.3	1875.3	1879.1
7.5°	1865.9	1862.2	1860.3	1862.2	1864.1
10°	1847.2	1843.4	1841.5	1843.4	1845.3
12.5°	1820.9	1819.0	1817.1	1817.1	1819.0
15°	1794.6	1787.1	1785.2	1783.3	1785.2
17.5°	1757.1	1755.2	1747.7	1747.7	1747.7
20°	1715.8	1712.0	1706.4	1702.6	1702.6
22.5°	1672.6	1668.8	1659.4	1655.7	1657.6
25°	1623.8	1616.3	1608.8	1605.0	1603.1
27.5°	1571.2	1563.7	1552.4	1546.8	1546.8
30°	1514.9	1509.3	1496.1	1488.6	1486.7
32.5°	1452.9	1449.2	1430.4	1426.7	1426.7
35°	1394.8	1383.5	1368.5	1361.0	1359.1
37.5°	1325.3	1317.8	1302.8	1293.4	1291.5
40°	1255.8	1246.5	1231.4	1223.9	1222.1
42.5°	1186.4	1177.0	1162.0	1152.6	1150.7
45°	1115.1	1107.5	1088.8	1079.4	1079.4
47.5°	1047.5	1032.5	1015.6	1008.1	1006.2
50°	974.3	961.1	942.4	934.8	934.8
52.5°	901.1	891.7	871.0	867.3	863.5
55°	829.7	814.7	799.7	790.3	788.4
57.5°	752.8	739.6	724.6	717.1	717.1
60°	687.1	670.2	657.0	647.6	647.6
62.5°	612.0	596.9	583.8	578.2	576.3
65°	540.6	529.4	514.4	508.7	508.7
67.5°	469.3	459.9	446.8	441.1	443.0
70°	399.8	394.2	384.8	377.3	375.4
72.5°	336.0	328.5	319.1	317.2	317.2
75°	275.9	266.6	259.1	255.3	260.9
77.5°	214.0	208.4	204.6	202.7	204.6
80°	159.6	152.1	150.2	152.1	152.1
82.5°	110.8	107.0	105.1	105.1	105.1
85°	61.9	61.9	60.1	58.2	56.3
87.5°	24.4	24.4	26.3	26.3	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)