

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: P995624

Luminaire Tested: 24D3X-LP-WD-55-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-55-L835.ies
Description: 2x4 D3X-LP AT 5500LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

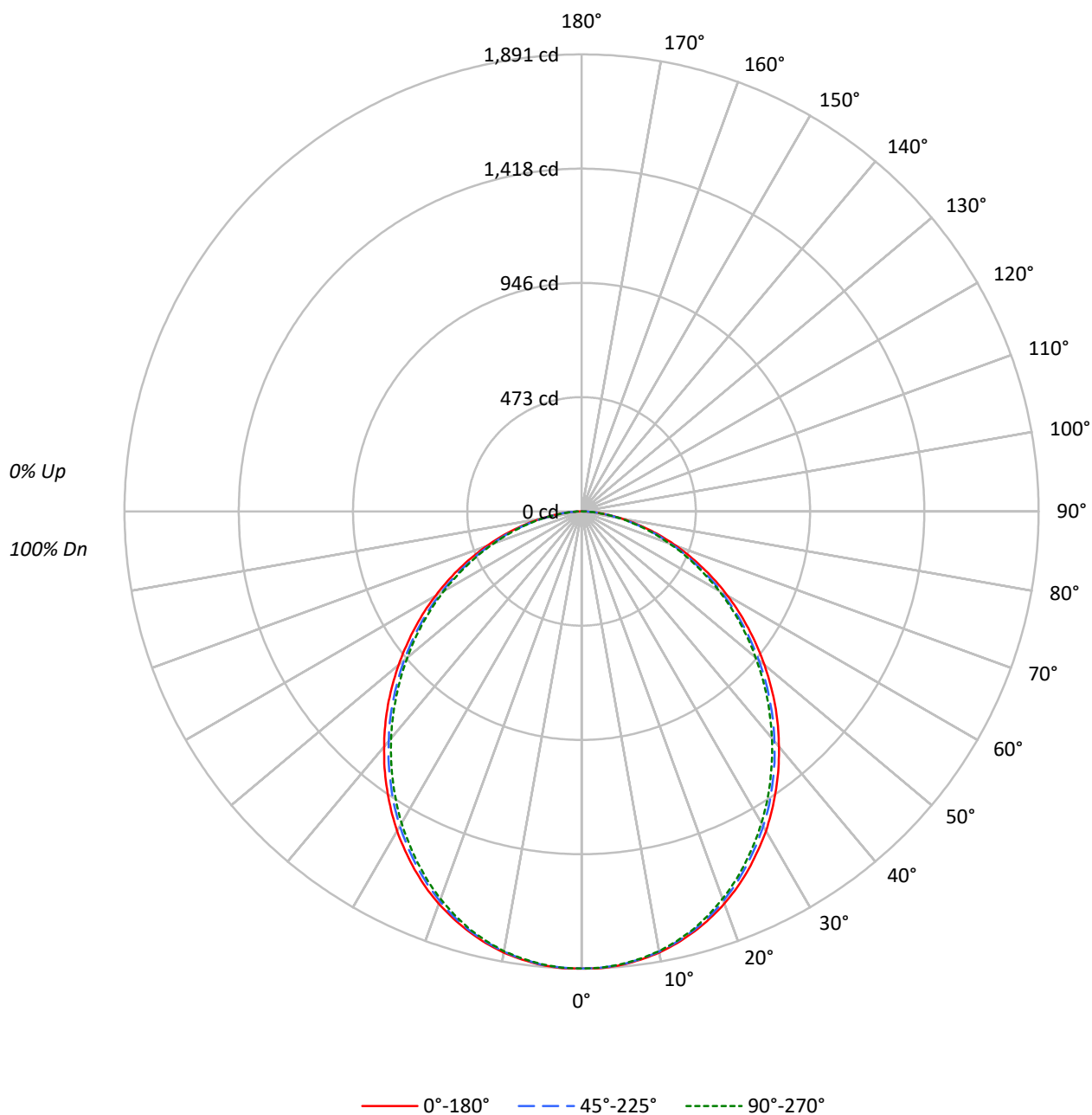
Lumens per Lamp: N/A
Luminaire Lumens: 4769.1 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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: P995624

CATALOG NUMBER: 24D3X-LP-WD-55-L835.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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2545	2545	2545
5°	2545	2543	2540
10°	2533	2527	2524
15°	2507	2499	2492
20°	2474	2457	2443
25°	2426	2400	2381
30°	2372	2336	2314
35°	2305	2261	2236
40°	2232	2180	2153
45°	2156	2094	2064
50°	2068	2004	1968
55°	1977	1908	1872
60°	1875	1800	1766
65°	1765	1682	1648
70°	1642	1554	1515
75°	1490	1406	1383
80°	1291	1221	1228
85°	1065	1051	982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2156 cd/sqm

TEST NUMBER: P995624

CATALOG NUMBER: 24D3X-LP-WD-55-L835.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.7
10°-20°	505.6	10.6
20°-30°	745.1	15.6
30°-40°	862.5	18.1
40°-50°	851.6	17.9
50°-60°	729.4	15.3
60°-70°	527.3	11.1
70°-80°	290.7	6.1
80°-90°	78.3	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°	1429.3	30.0
0°-40°	2291.8	48.1
0°-60°	3872.8	81.2
0°-90°	4769.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4769.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1884	1883	1882	1881	1881	179
15°	1800	1798	1794	1791	1789	507
25°	1634	1630	1616	1608	1604	753
35°	1403	1394	1376	1365	1361	877
45°	1133	1118	1101	1090	1084	873
55°	843	827	813	802	798	753
65°	554	542	528	520	518	550
75°	287	278	270	270	266	304
85°	69	69	68	64	64	81
90°	0	0	0	0	0	

TEST NUMBER: P995624

CATALOG NUMBER: 24D3X-LP-WD-55-L835.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1891.4	1891.4	1891.4	1891.4	1891.4
2.5°	1891.4	1891.4	1889.6	1889.6	1889.6
5°	1884.3	1883.4	1882.5	1880.7	1880.7
7.5°	1870.8	1870.8	1868.1	1868.1	1866.4
10°	1853.8	1852.0	1849.3	1849.3	1847.5
12.5°	1829.6	1827.8	1824.3	1823.4	1820.7
15°	1800.1	1798.3	1793.8	1791.1	1789.3
17.5°	1766.0	1763.4	1758.0	1753.5	1749.9
20°	1727.5	1724.0	1715.9	1710.5	1706.0
22.5°	1683.7	1680.1	1668.4	1662.2	1657.7
25°	1634.4	1629.9	1616.5	1608.4	1604.0
27.5°	1581.6	1576.2	1561.0	1552.0	1547.5
30°	1526.9	1518.9	1503.6	1492.9	1489.3
32.5°	1466.0	1458.0	1442.8	1430.2	1426.6
35°	1403.3	1394.4	1376.5	1364.8	1361.3
37.5°	1338.9	1327.2	1311.1	1299.5	1294.1
40°	1270.8	1259.2	1241.2	1228.7	1226.0
42.5°	1202.7	1188.4	1173.2	1160.6	1155.3
45°	1132.9	1117.7	1100.6	1089.9	1084.5
47.5°	1059.4	1045.1	1029.9	1017.4	1012.9
50°	987.8	972.6	957.4	945.7	940.3
52.5°	914.4	899.1	884.8	875.0	869.6
55°	842.7	826.6	813.2	801.5	797.9
57.5°	770.2	755.9	740.6	729.9	727.2
60°	696.7	684.2	669.0	659.1	656.4
62.5°	626.0	613.5	599.1	589.3	584.8
65°	554.4	541.8	528.4	520.3	517.6
67.5°	484.5	472.9	461.2	453.2	451.4
70°	417.3	405.7	394.9	387.8	385.1
72.5°	350.2	342.1	331.4	326.9	324.2
75°	286.6	277.6	270.5	269.6	266.0
77.5°	224.8	223.9	212.2	210.5	210.5
80°	166.6	163.9	157.6	155.8	158.5
82.5°	114.6	112.8	109.3	108.4	107.5
85°	69.0	69.0	68.1	63.6	63.6
87.5°	31.3	30.4	29.6	30.4	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)