

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: P995625

Luminaire Tested: 24D3X-LP-WD-55-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995625
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-L840.ies
Description: 2x4 D3X-LP AT 5500LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

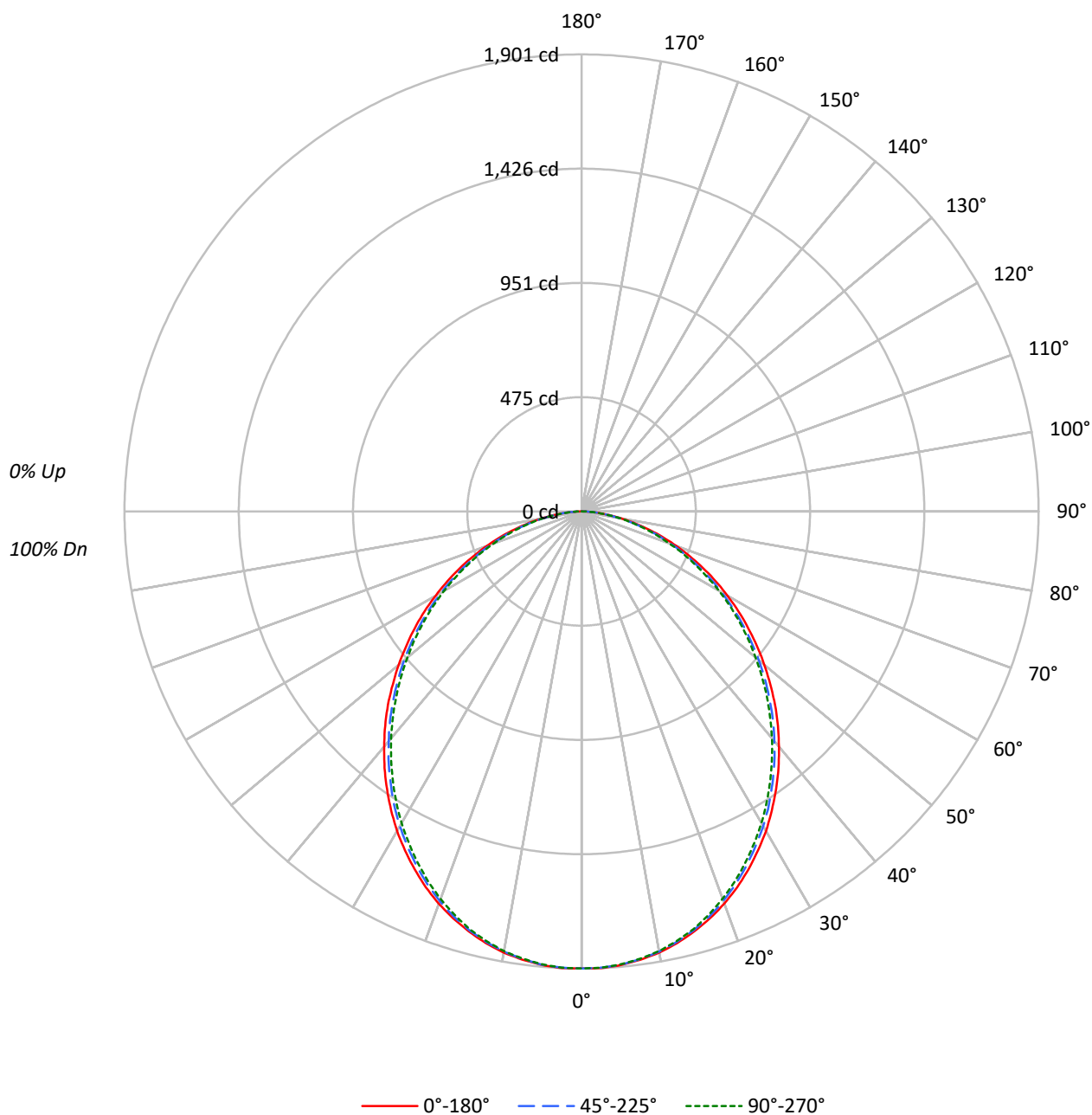
Lumens per Lamp: N/A
Luminaire Lumens: 4793.4 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	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°	2558	2558	2558
5°	2558	2556	2553
10°	2546	2540	2537
15°	2520	2511	2505
20°	2486	2469	2455
25°	2439	2412	2393
30°	2384	2348	2326
35°	2317	2272	2247
40°	2243	2191	2164
45°	2167	2105	2074
50°	2078	2014	1978
55°	1987	1917	1881
60°	1884	1809	1776
65°	1774	1691	1656
70°	1650	1562	1523
75°	1497	1413	1390
80°	1297	1227	1234
85°	1070	1056	986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.6	3.7
10°-20°	508.2	10.6
20°-30°	748.9	15.6
30°-40°	866.9	18.1
40°-50°	855.9	17.9
50°-60°	733.1	15.3
60°-70°	530.1	11.1
70°-80°	292.1	6.1
80°-90°	78.7	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°	1436.6	30.0
0°-40°	2303.5	48.1
0°-60°	3892.5	81.2
0°-90°	4793.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4793.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1894	1893	1892	1890	1890	180
15°	1809	1808	1803	1800	1798	510
25°	1643	1638	1625	1617	1612	756
35°	1410	1402	1384	1372	1368	882
45°	1139	1123	1106	1096	1090	877
55°	847	831	817	806	802	757
65°	557	545	531	523	520	552
75°	288	279	272	271	267	306
85°	69	69	68	64	64	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.1	1901.1	1901.1	1901.1	1901.1
2.5°	1901.1	1901.1	1899.3	1899.3	1899.3
5°	1893.9	1893.0	1892.1	1890.3	1890.3
7.5°	1880.4	1880.4	1877.7	1877.7	1875.9
10°	1863.3	1861.5	1858.8	1858.8	1857.0
12.5°	1839.0	1837.2	1833.6	1832.7	1830.0
15°	1809.3	1807.5	1803.0	1800.3	1798.5
17.5°	1775.0	1772.3	1766.9	1762.4	1758.8
20°	1736.3	1732.7	1724.6	1719.2	1714.7
22.5°	1692.2	1688.6	1676.9	1670.6	1666.1
25°	1642.7	1638.2	1624.7	1616.6	1612.1
27.5°	1589.6	1584.2	1568.9	1559.9	1555.4
30°	1534.7	1526.6	1511.3	1500.5	1496.9
32.5°	1473.5	1465.4	1450.1	1437.5	1433.9
35°	1410.5	1401.5	1383.5	1371.8	1368.2
37.5°	1345.7	1334.0	1317.8	1306.1	1300.7
40°	1277.3	1265.6	1247.6	1235.0	1232.3
42.5°	1208.9	1194.5	1179.2	1166.6	1161.2
45°	1138.7	1123.4	1106.3	1095.5	1090.1
47.5°	1064.8	1050.4	1035.1	1022.5	1018.0
50°	992.8	977.5	962.2	950.5	945.1
52.5°	919.0	903.7	889.3	879.4	874.0
55°	847.0	830.8	817.3	805.6	802.0
57.5°	774.1	759.7	744.4	733.6	730.9
60°	700.3	687.7	672.4	662.5	659.8
62.5°	629.2	616.6	602.2	592.3	587.8
65°	557.2	544.6	531.1	523.0	520.3
67.5°	487.0	475.3	463.6	455.5	453.7
70°	419.5	407.8	397.0	389.8	387.1
72.5°	351.9	343.8	333.0	328.5	325.8
75°	288.0	279.0	271.8	270.9	267.3
77.5°	225.9	225.0	213.3	211.5	211.5
80°	167.4	164.7	158.4	156.6	159.3
82.5°	115.2	113.4	109.8	108.9	108.0
85°	69.3	69.3	68.4	63.9	63.9
87.5°	31.5	30.6	29.7	30.6	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)