

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: P995642

Luminaire Tested: 24D3X-LP-WD-70-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995642
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-70-L835.ies
Description: 2x4 D3X-LP AT 7000LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

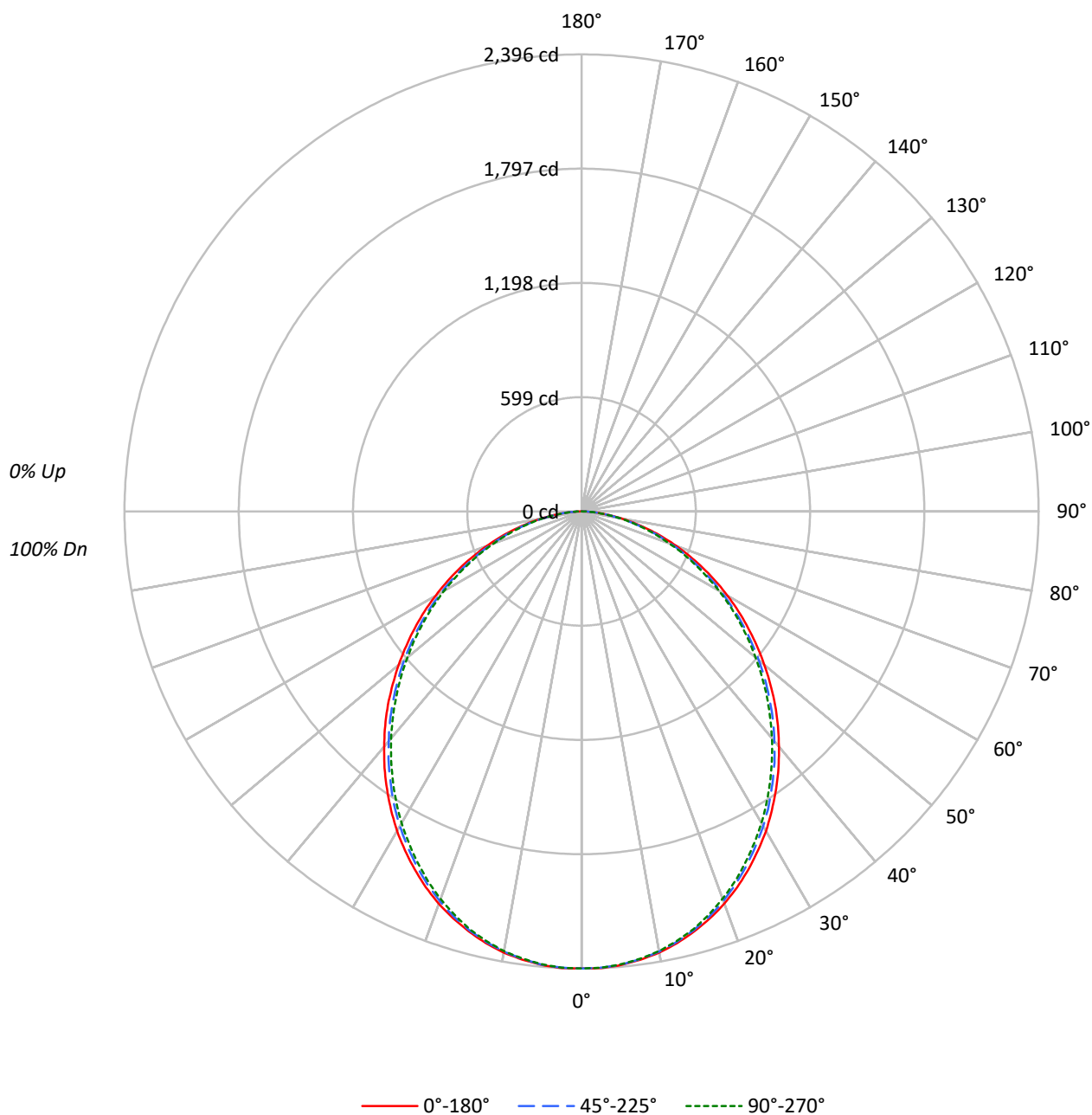
Lumens per Lamp: N/A
Luminaire Lumens: 6041.7 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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: P995642

CATALOG NUMBER: 24D3X-LP-WD-70-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	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	30	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°	3224	3224	3224
5°	3224	3221	3218
10°	3209	3201	3198
15°	3176	3165	3158
20°	3134	3113	3095
25°	3074	3040	3017
30°	3005	2960	2931
35°	2920	2864	2833
40°	2828	2762	2728
45°	2731	2653	2614
50°	2619	2539	2494
55°	2504	2417	2371
60°	2375	2281	2238
65°	2236	2131	2088
70°	2080	1968	1919
75°	1888	1781	1752
80°	1635	1547	1556
85°	1349	1331	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2731 cd/sqm

TEST NUMBER: P995642

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	3.7
10°-20°	640.5	10.6
20°-30°	943.9	15.6
30°-40°	1092.7	18.1
40°-50°	1078.8	17.9
50°-60°	924.0	15.3
60°-70°	668.1	11.1
70°-80°	368.3	6.1
80°-90°	99.2	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°	1810.7	30.0
0°-40°	2903.4	48.1
0°-60°	4906.2	81.2
0°-90°	6041.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6041.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2396	2396	2396	2396	2396	
5°	2387	2386	2385	2382	2382	227
15°	2280	2278	2272	2269	2267	643
25°	2070	2065	2048	2038	2032	953
35°	1778	1766	1744	1729	1724	1112
45°	1435	1416	1394	1381	1374	1106
55°	1068	1047	1030	1015	1011	954
65°	702	686	669	659	656	696
75°	363	352	343	342	337	385
85°	87	87	86	81	81	103
90°	0	0	0	0	0	

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CATALOG NUMBER: 24D3X-LP-WD-70-L835.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2396.1	2396.1	2396.1	2396.1	2396.1
2.5°	2396.1	2396.1	2393.9	2393.9	2393.9
5°	2387.1	2385.9	2384.8	2382.5	2382.5
7.5°	2370.0	2370.0	2366.6	2366.6	2364.4
10°	2348.5	2346.2	2342.8	2342.8	2340.5
12.5°	2317.9	2315.6	2311.1	2309.9	2306.5
15°	2280.4	2278.1	2272.5	2269.1	2266.8
17.5°	2237.3	2233.9	2227.1	2221.4	2216.9
20°	2188.5	2184.0	2173.8	2167.0	2161.3
22.5°	2132.9	2128.4	2113.6	2105.7	2100.0
25°	2070.5	2064.9	2047.8	2037.6	2032.0
27.5°	2003.6	1996.8	1977.5	1966.2	1960.5
30°	1934.4	1924.2	1904.9	1891.3	1886.7
32.5°	1857.2	1847.0	1827.7	1811.9	1807.3
35°	1777.8	1766.5	1743.8	1729.0	1724.5
37.5°	1696.1	1681.4	1661.0	1646.2	1639.4
40°	1609.9	1595.2	1572.5	1556.6	1553.2
42.5°	1523.7	1505.5	1486.2	1470.4	1463.6
45°	1435.2	1415.9	1394.3	1380.7	1373.9
47.5°	1342.2	1324.0	1304.7	1288.8	1283.2
50°	1251.4	1232.1	1212.8	1198.1	1191.3
52.5°	1158.4	1139.1	1120.9	1108.4	1101.6
55°	1067.6	1047.2	1030.2	1015.4	1010.9
57.5°	975.7	957.5	938.3	924.6	921.2
60°	882.7	866.8	847.5	835.0	831.6
62.5°	793.0	777.2	759.0	746.5	740.9
65°	702.3	686.4	669.4	659.2	655.8
67.5°	613.8	599.0	584.3	574.1	571.8
70°	528.7	513.9	500.3	491.3	487.9
72.5°	443.6	433.4	419.8	414.1	410.7
75°	363.1	351.7	342.6	341.5	337.0
77.5°	284.8	283.6	268.9	266.6	266.6
80°	211.0	207.6	199.7	197.4	200.8
82.5°	145.2	143.0	138.4	137.3	136.1
85°	87.4	87.4	86.2	80.6	80.6
87.5°	39.7	38.6	37.4	38.6	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)