

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: P995596

Luminaire Tested: 24D3X-LP-WD-40-L830.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995596
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-40-L830.ies
Description: 2x4 D3X-LP AT 4000LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

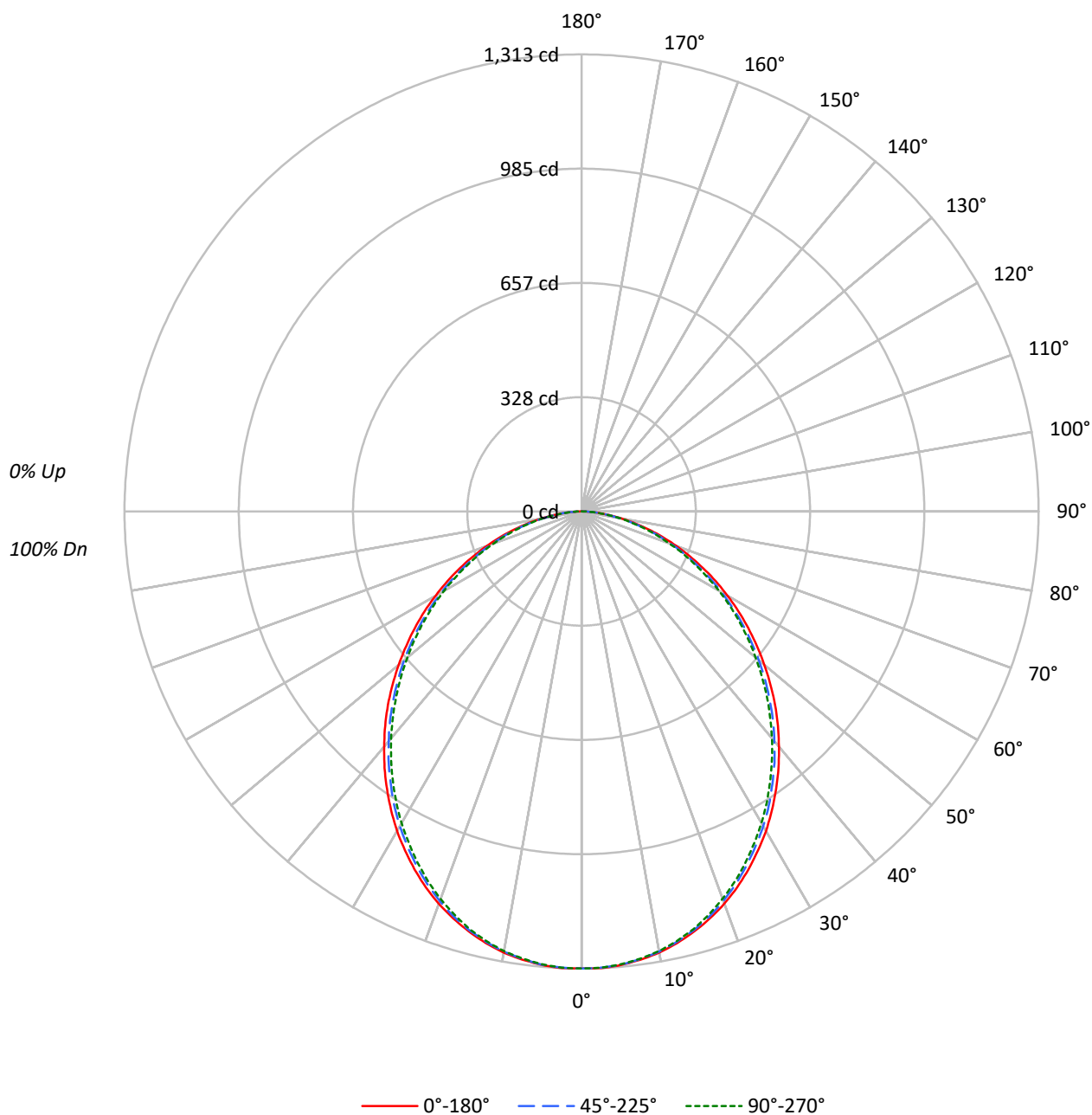
Lumens per Lamp: N/A
Luminaire Lumens: 3311.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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

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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	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°	1767	1767	1767
5°	1767	1765	1764
10°	1758	1754	1752
15°	1741	1735	1730
20°	1717	1706	1696
25°	1685	1666	1653
30°	1647	1622	1606
35°	1600	1570	1552
40°	1550	1514	1495
45°	1497	1454	1433
50°	1436	1391	1367
55°	1373	1324	1300
60°	1302	1250	1227
65°	1225	1168	1144
70°	1140	1079	1052
75°	1035	976	960
80°	896	848	853
85°	739	730	681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.7
10°-20°	351.0	10.6
20°-30°	517.3	15.6
30°-40°	598.9	18.1
40°-50°	591.2	17.9
50°-60°	506.4	15.3
60°-70°	366.1	11.1
70°-80°	201.8	6.1
80°-90°	54.3	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°	992.3	30.0
0°-40°	1591.2	48.1
0°-60°	2688.8	81.2
0°-90°	3311.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3311.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1308	1308	1307	1306	1306	124
15°	1250	1248	1245	1244	1242	352
25°	1135	1132	1122	1117	1114	522
35°	974	968	956	948	945	609
45°	786	776	764	757	753	606
55°	585	574	565	556	554	523
65°	385	376	367	361	359	382
75°	199	193	188	187	185	211
85°	48	48	47	44	44	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1313.2	1313.2	1311.9	1311.9	1311.9
5°	1308.2	1307.6	1307.0	1305.7	1305.7
7.5°	1298.9	1298.9	1297.0	1297.0	1295.8
10°	1287.1	1285.8	1284.0	1284.0	1282.7
12.5°	1270.3	1269.0	1266.6	1265.9	1264.1
15°	1249.8	1248.5	1245.4	1243.5	1242.3
17.5°	1226.1	1224.3	1220.5	1217.4	1214.9
20°	1199.4	1196.9	1191.3	1187.6	1184.5
22.5°	1168.9	1166.4	1158.4	1154.0	1150.9
25°	1134.7	1131.6	1122.3	1116.7	1113.6
27.5°	1098.1	1094.3	1083.7	1077.5	1074.4
30°	1060.1	1054.5	1044.0	1036.5	1034.0
32.5°	1017.8	1012.2	1001.7	993.0	990.5
35°	974.3	968.1	955.7	947.6	945.1
37.5°	929.5	921.5	910.3	902.2	898.5
40°	882.3	874.2	861.8	853.1	851.2
42.5°	835.0	825.1	814.5	805.8	802.1
45°	786.5	776.0	764.2	756.7	753.0
47.5°	735.6	725.6	715.0	706.3	703.2
50°	685.8	675.2	664.7	656.6	652.9
52.5°	634.8	624.3	614.3	607.5	603.7
55°	585.1	573.9	564.6	556.5	554.0
57.5°	534.7	524.8	514.2	506.7	504.9
60°	483.7	475.0	464.5	457.6	455.8
62.5°	434.6	425.9	416.0	409.1	406.0
65°	384.9	376.2	366.8	361.2	359.4
67.5°	336.4	328.3	320.2	314.6	313.4
70°	289.7	281.7	274.2	269.2	267.4
72.5°	243.1	237.5	230.1	226.9	225.1
75°	199.0	192.7	187.8	187.2	184.7
77.5°	156.1	155.4	147.4	146.1	146.1
80°	115.6	113.8	109.4	108.2	110.1
82.5°	79.6	78.3	75.9	75.2	74.6
85°	47.9	47.9	47.3	44.1	44.1
87.5°	21.8	21.1	20.5	21.1	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)