

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: P995609

Luminaire Tested: 24D3X-LP-WD-45-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995609
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-45-L927.ies
Description: 2x4 D3X-LP AT 4500LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

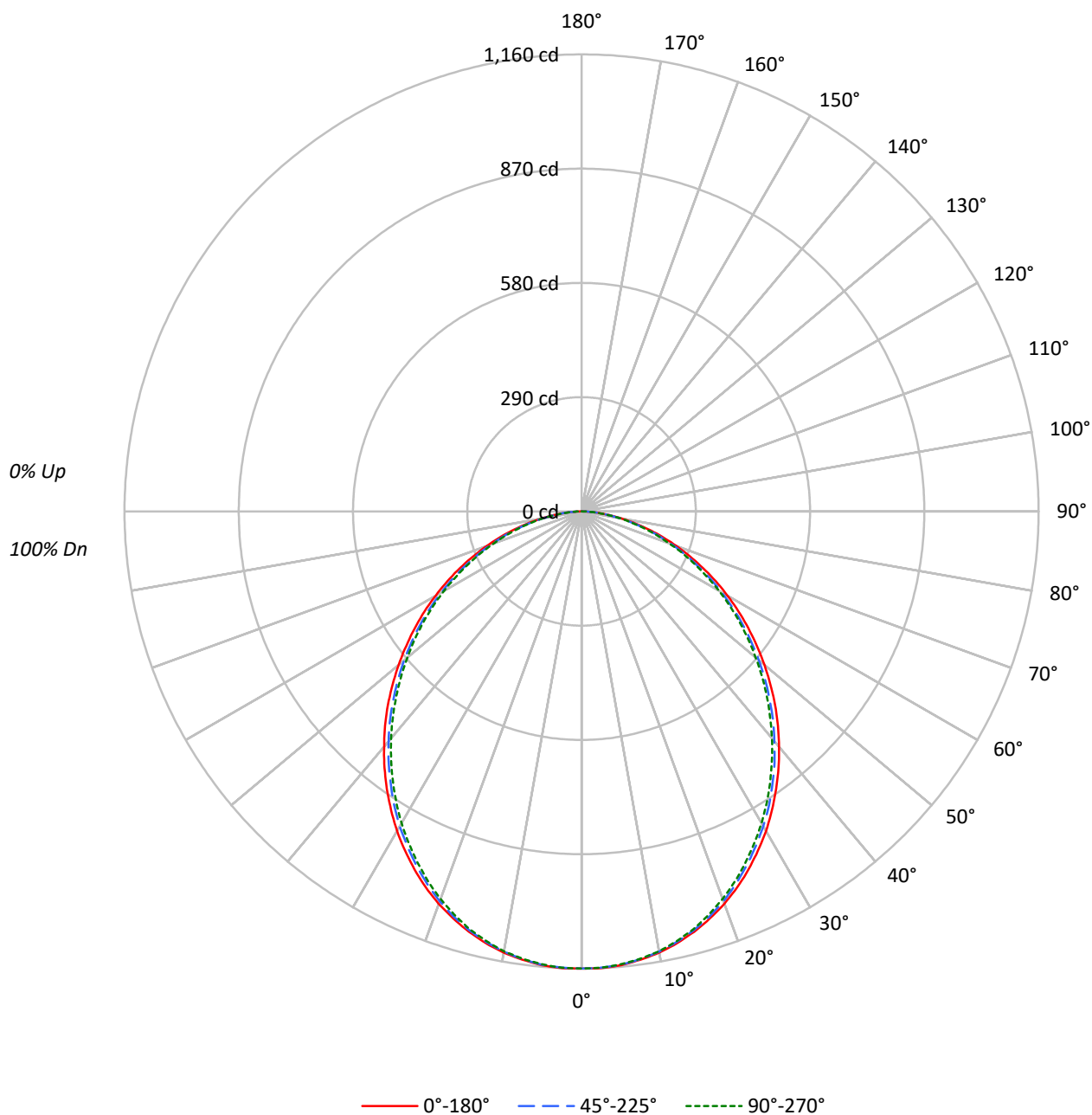
Lumens per Lamp: N/A
Luminaire Lumens: 2925.7 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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°	1561	1561	1561
5°	1561	1560	1558
10°	1554	1550	1549
15°	1538	1533	1529
20°	1517	1507	1499
25°	1489	1472	1461
30°	1455	1433	1420
35°	1414	1387	1372
40°	1369	1338	1321
45°	1322	1285	1266
50°	1268	1229	1208
55°	1213	1170	1148
60°	1150	1104	1084
65°	1083	1032	1011
70°	1007	953	929
75°	914	862	848
80°	792	749	753
85°	653	645	602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1322 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.7
10°-20°	310.2	10.6
20°-30°	457.1	15.6
30°-40°	529.1	18.1
40°-50°	522.4	17.9
50°-60°	447.5	15.3
60°-70°	323.5	11.1
70°-80°	178.3	6.1
80°-90°	48.0	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°	876.8	30.0
0°-40°	1406.0	48.1
0°-60°	2375.9	81.2
0°-90°	2925.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1156	1155	1155	1154	1154	110
15°	1104	1103	1100	1099	1098	311
25°	1003	1000	992	987	984	462
35°	861	855	844	837	835	538
45°	695	686	675	669	665	536
55°	517	507	499	492	490	462
65°	340	332	324	319	318	337
75°	176	170	166	165	163	187
85°	42	42	42	39	39	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.3	1160.3	1160.3	1160.3	1160.3
2.5°	1160.3	1160.3	1159.2	1159.2	1159.2
5°	1155.9	1155.4	1154.9	1153.8	1153.8
7.5°	1147.7	1147.7	1146.1	1146.1	1145.0
10°	1137.3	1136.2	1134.5	1134.5	1133.4
12.5°	1122.4	1121.3	1119.1	1118.6	1116.9
15°	1104.3	1103.2	1100.5	1098.8	1097.7
17.5°	1083.4	1081.8	1078.5	1075.7	1073.5
20°	1059.8	1057.6	1052.7	1049.4	1046.6
22.5°	1032.9	1030.7	1023.5	1019.7	1016.9
25°	1002.7	999.9	991.7	986.7	984.0
27.5°	970.3	967.0	957.6	952.1	949.4
30°	936.7	931.8	922.5	915.9	913.7
32.5°	899.4	894.4	885.1	877.4	875.2
35°	860.9	855.4	844.4	837.3	835.1
37.5°	821.4	814.2	804.3	797.2	793.9
40°	779.6	772.5	761.5	753.8	752.1
42.5°	737.9	729.1	719.7	712.0	708.7
45°	695.0	685.7	675.2	668.6	665.3
47.5°	649.9	641.2	631.8	624.1	621.4
50°	606.0	596.7	587.3	580.2	576.9
52.5°	560.9	551.6	542.8	536.8	533.5
55°	517.0	507.1	498.9	491.7	489.5
57.5°	472.5	463.7	454.4	447.8	446.1
60°	427.4	419.7	410.4	404.4	402.7
62.5°	384.0	376.3	367.6	361.5	358.8
65°	340.1	332.4	324.1	319.2	317.6
67.5°	297.2	290.1	282.9	278.0	276.9
70°	256.0	248.9	242.3	237.9	236.2
72.5°	214.8	209.9	203.3	200.5	198.9
75°	175.8	170.3	165.9	165.4	163.2
77.5°	137.9	137.4	130.2	129.1	129.1
80°	102.2	100.5	96.7	95.6	97.2
82.5°	70.3	69.2	67.0	66.5	65.9
85°	42.3	42.3	41.8	39.0	39.0
87.5°	19.2	18.7	18.1	18.7	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)