

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: P995509

Luminaire Tested: 22D3X-LP-WD-35-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-35-L850.ies
Description: 2x2 D3X-LP AT 3500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

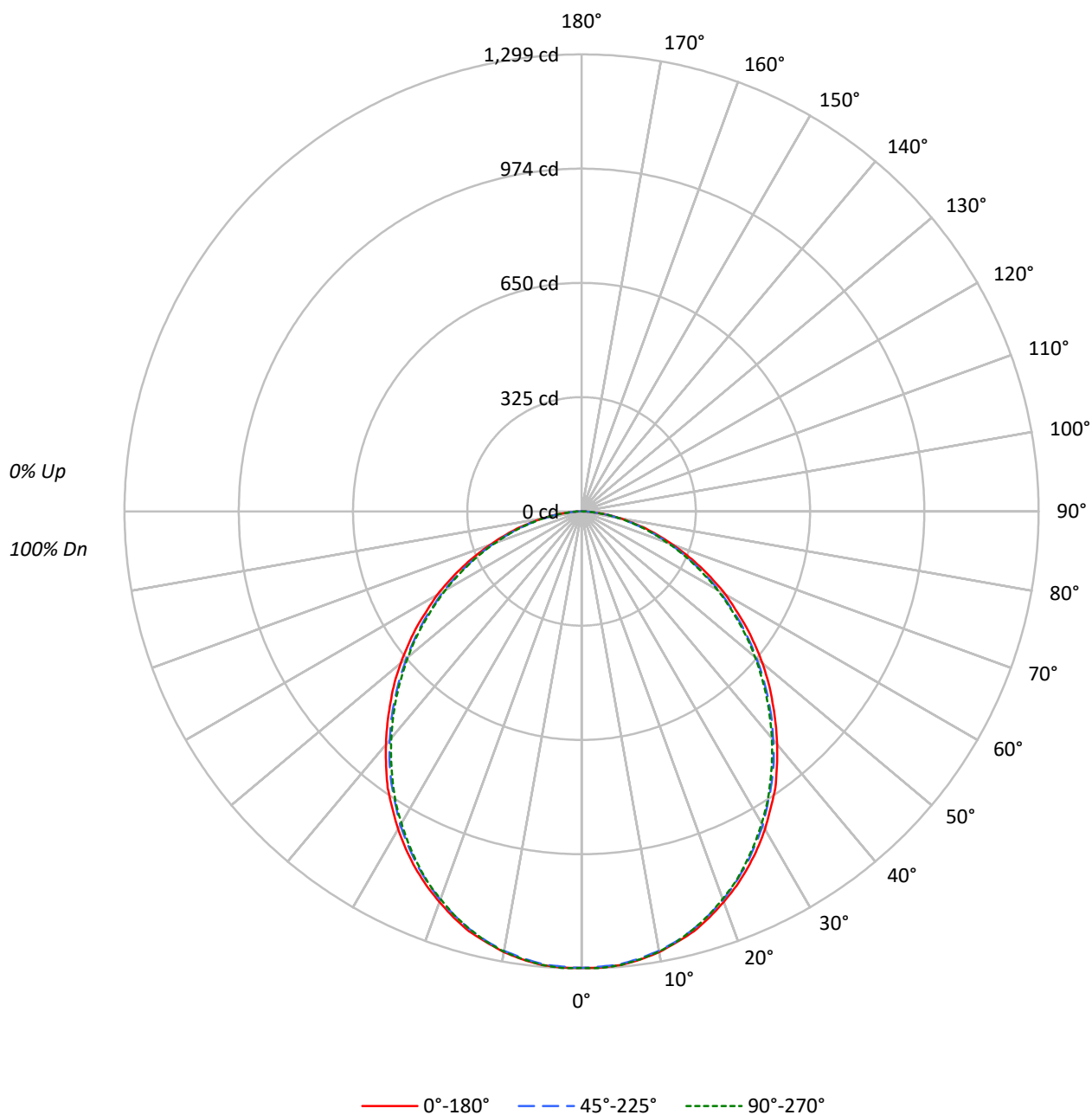
Lumens per Lamp: N/A
Luminaire Lumens: 3242.5 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	3492	3492	3492
5°	3495	3488	3495
10°	3475	3464	3471
15°	3442	3424	3424
20°	3383	3364	3357
25°	3319	3289	3277
30°	3241	3200	3181
35°	3154	3095	3074
40°	3037	2978	2955
45°	2922	2853	2828
50°	2808	2716	2694
55°	2680	2583	2547
60°	2546	2434	2400
65°	2370	2255	2230
70°	2166	2084	2034
75°	1975	1854	1867
80°	1703	1602	1623
85°	1315	1278	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.8
10°-20°	346.6	10.7
20°-30°	510.4	15.7
30°-40°	590.5	18.2
40°-50°	580.5	17.9
50°-60°	494.7	15.3
60°-70°	354.5	10.9
70°-80°	192.5	5.9
80°-90°	50.2	1.5
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°	979.6	30.2
0°-40°	1570.0	48.4
0°-60°	2645.2	81.6
0°-90°	3242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3242.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1294	1291	1291	1291	1294	123
15°	1236	1230	1229	1228	1229	348
25°	1118	1113	1108	1105	1104	515
35°	960	952	942	937	936	599
45°	768	762	750	743	743	593
55°	571	561	551	544	543	510
65°	372	364	354	350	350	369
75°	190	184	178	176	180	201
85°	43	43	41	40	39	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.5	1297.5	1297.5	1297.5	1297.5
2.5°	1297.5	1296.3	1295.0	1296.3	1298.8
5°	1293.7	1291.1	1291.1	1291.1	1293.7
7.5°	1284.6	1282.0	1280.7	1282.0	1283.3
10°	1271.7	1269.1	1267.8	1269.1	1270.4
12.5°	1253.6	1252.3	1251.0	1251.0	1252.3
15°	1235.5	1230.3	1229.0	1227.8	1229.0
17.5°	1209.7	1208.4	1203.2	1203.2	1203.2
20°	1181.2	1178.6	1174.8	1172.2	1172.2
22.5°	1151.5	1148.9	1142.5	1139.9	1141.2
25°	1117.9	1112.7	1107.6	1105.0	1103.7
27.5°	1081.7	1076.5	1068.8	1064.9	1064.9
30°	1042.9	1039.1	1030.0	1024.9	1023.6
32.5°	1000.3	997.7	984.8	982.2	982.2
35°	960.2	952.5	942.1	937.0	935.7
37.5°	912.4	907.2	896.9	890.4	889.2
40°	864.6	858.1	847.8	842.6	841.3
42.5°	816.8	810.3	800.0	793.5	792.2
45°	767.7	762.5	749.6	743.1	743.1
47.5°	721.1	710.8	699.2	694.0	692.7
50°	670.7	661.7	648.8	643.6	643.6
52.5°	620.3	613.9	599.7	597.1	594.5
55°	571.2	560.9	550.6	544.1	542.8
57.5°	518.2	509.2	498.9	493.7	493.7
60°	473.0	461.4	452.3	445.9	445.9
62.5°	421.3	411.0	401.9	398.1	396.8
65°	372.2	364.5	354.1	350.2	350.2
67.5°	323.1	316.6	307.6	303.7	305.0
70°	275.3	271.4	264.9	259.8	258.5
72.5°	231.3	226.2	219.7	218.4	218.4
75°	190.0	183.5	178.3	175.8	179.6
77.5°	147.3	143.5	140.9	139.6	140.9
80°	109.9	104.7	103.4	104.7	104.7
82.5°	76.3	73.7	72.4	72.4	72.4
85°	42.6	42.6	41.4	40.1	38.8
87.5°	16.8	16.8	18.1	18.1	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)