

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: P995528

Luminaire Tested: 22D3X-LP-WD-45-L927.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995528
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-45-L927.ies
Description: 2x2 D3X-LP AT 4500LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

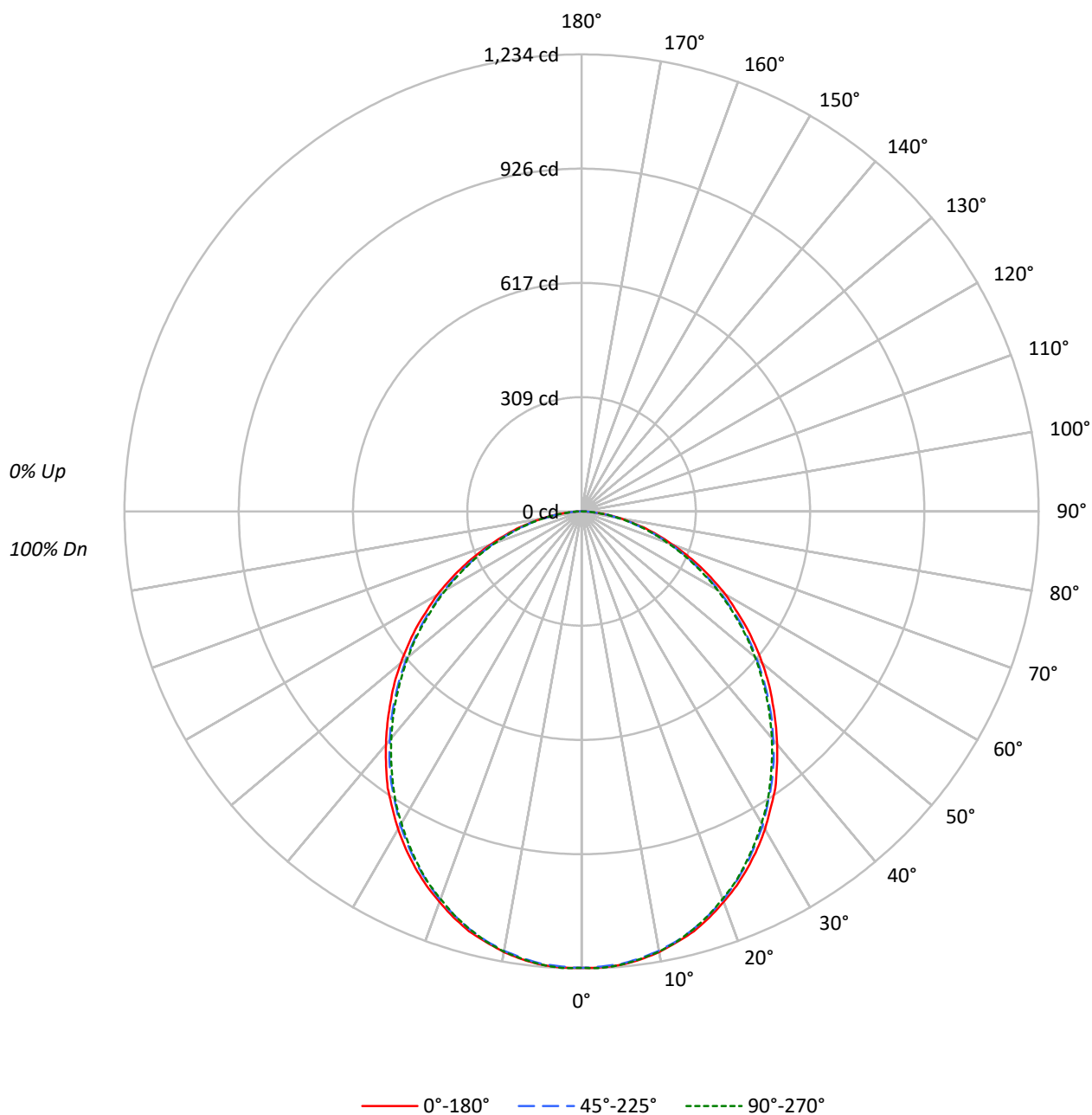
Lumens per Lamp: N/A
Luminaire Lumens: 3080.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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°	3317	3317	3317
5°	3319	3313	3319
10°	3301	3291	3297
15°	3270	3253	3253
20°	3213	3196	3188
25°	3153	3124	3113
30°	3078	3040	3021
35°	2996	2940	2920
40°	2885	2829	2807
45°	2775	2710	2686
50°	2667	2580	2560
55°	2546	2454	2419
60°	2418	2313	2279
65°	2252	2142	2118
70°	2057	1980	1932
75°	1877	1761	1774
80°	1616	1522	1540
85°	1250	1213	1136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.8
10°-20°	329.2	10.7
20°-30°	484.9	15.7
30°-40°	560.9	18.2
40°-50°	551.4	17.9
50°-60°	469.9	15.3
60°-70°	336.7	10.9
70°-80°	182.9	5.9
80°-90°	47.7	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°	930.5	30.2
0°-40°	1491.4	48.4
0°-60°	2512.7	81.6
0°-90°	3080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1229	1226	1226	1226	1229	117
15°	1174	1169	1168	1166	1168	330
25°	1062	1057	1052	1050	1048	489
35°	912	905	895	890	889	569
45°	729	724	712	706	706	563
55°	543	533	523	517	516	484
65°	354	346	336	333	333	350
75°	180	174	169	167	171	191
85°	40	40	39	38	37	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1232.5	1231.3	1230.1	1231.3	1233.8
5°	1228.8	1226.4	1226.4	1226.4	1228.8
7.5°	1220.3	1217.8	1216.6	1217.8	1219.0
10°	1208.0	1205.5	1204.3	1205.5	1206.7
12.5°	1190.8	1189.6	1188.3	1188.3	1189.6
15°	1173.6	1168.7	1167.5	1166.2	1167.5
17.5°	1149.0	1147.8	1142.9	1142.9	1142.9
20°	1122.0	1119.6	1115.9	1113.4	1113.4
22.5°	1093.8	1091.4	1085.2	1082.8	1084.0
25°	1061.9	1057.0	1052.1	1049.6	1048.4
27.5°	1027.5	1022.6	1015.2	1011.6	1011.6
30°	990.7	987.0	978.4	973.5	972.3
32.5°	950.2	947.7	935.4	933.0	933.0
35°	912.1	904.8	894.9	890.0	888.8
37.5°	866.7	861.8	852.0	845.8	844.6
40°	821.3	815.1	805.3	800.4	799.2
42.5°	775.9	769.7	759.9	753.8	752.5
45°	729.2	724.3	712.0	705.9	705.9
47.5°	685.0	675.2	664.1	659.2	658.0
50°	637.1	628.5	616.3	611.4	611.4
52.5°	589.3	583.1	569.6	567.2	564.7
55°	542.6	532.8	523.0	516.8	515.6
57.5°	492.3	483.7	473.9	468.9	468.9
60°	449.3	438.3	429.7	423.5	423.5
62.5°	400.2	390.4	381.8	378.1	376.9
65°	353.6	346.2	336.4	332.7	332.7
67.5°	306.9	300.8	292.2	288.5	289.7
70°	261.5	257.8	251.7	246.8	245.5
72.5°	219.7	214.8	208.7	207.5	207.5
75°	180.5	174.3	169.4	167.0	170.6
77.5°	139.9	136.3	133.8	132.6	133.8
80°	104.3	99.4	98.2	99.4	99.4
82.5°	72.4	70.0	68.7	68.7	68.7
85°	40.5	40.5	39.3	38.1	36.8
87.5°	16.0	16.0	17.2	17.2	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)