

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: P601109

Luminaire Tested: 22D3X-LP-40-L940

Issue Date: 10/5/2023

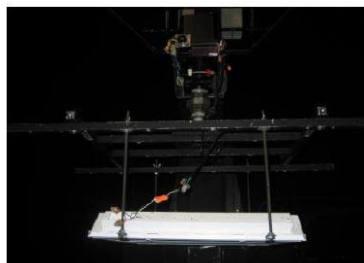
Test Information

Test Method: LM-79-2019
Report Number: P601109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-40-L940
Description: 2x2 D3X-LP AT 4000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

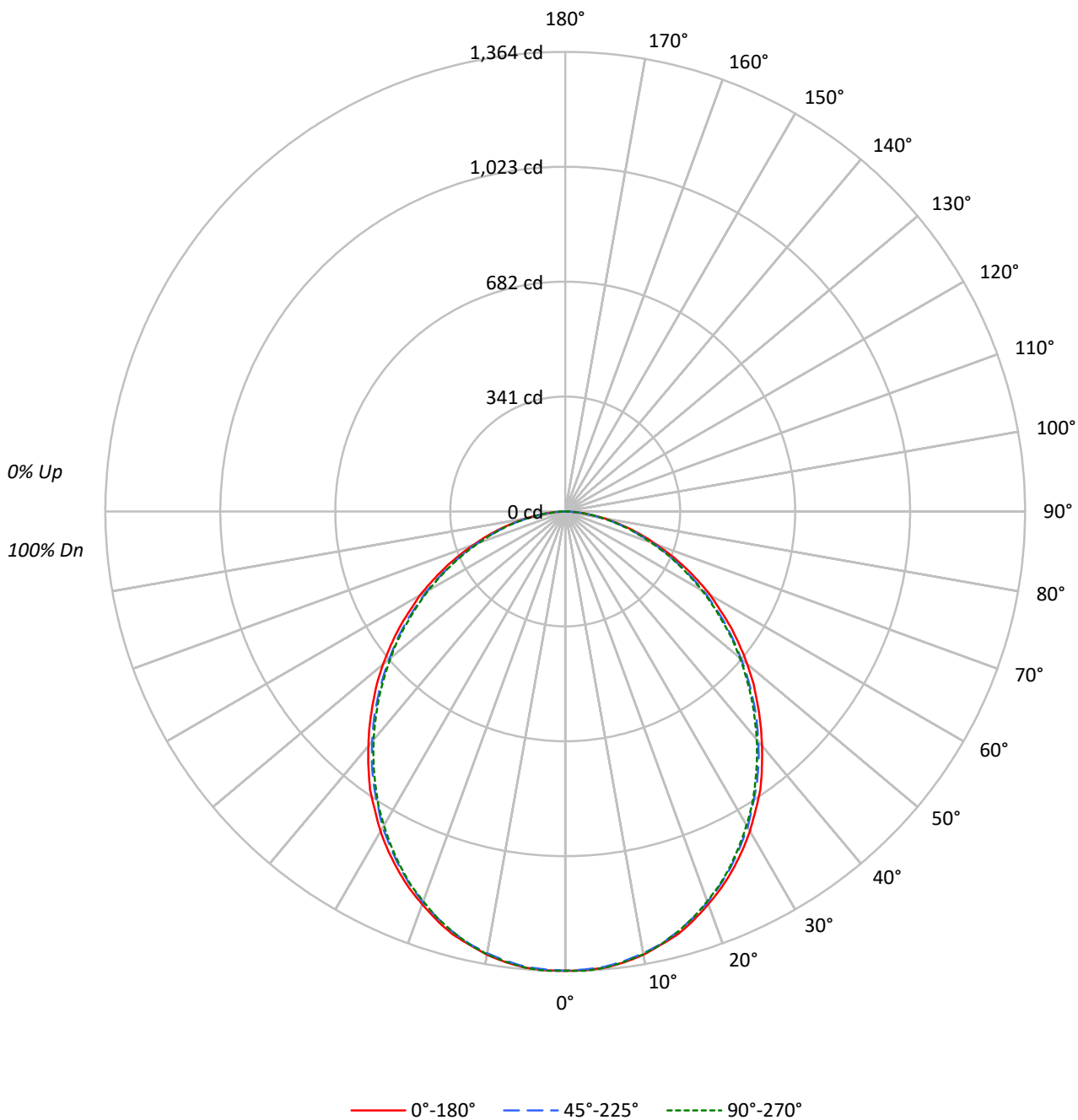
Lumens per Lamp: N/A
Luminaire Lumens: 3406.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.6
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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3668	3668	3668
5°	3671	3663	3671
10°	3650	3639	3647
15°	3616	3597	3597
20°	3553	3534	3526
25°	3487	3454	3442
30°	3404	3362	3341
35°	3314	3251	3229
40°	3190	3129	3105
45°	3069	2997	2971
50°	2950	2853	2830
55°	2815	2713	2675
60°	2674	2557	2521
65°	2490	2369	2343
70°	2275	2190	2136
75°	2075	1947	1962
80°	1788	1683	1705
85°	1383	1340	1257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3069 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.8
10°-20°	364.0	10.7
20°-30°	536.2	15.7
30°-40°	620.3	18.2
40°-50°	609.8	17.9
50°-60°	519.7	15.3
60°-70°	372.4	10.9
70°-80°	202.2	5.9
80°-90°	52.7	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°	1029.0	30.2
0°-40°	1649.2	48.4
0°-60°	2778.7	81.6
0°-90°	3406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1359	1356	1356	1356	1359	129
15°	1298	1292	1291	1290	1291	365
25°	1174	1169	1163	1161	1159	541
35°	1009	1000	990	984	983	629
45°	806	801	787	781	781	623
55°	600	589	578	572	570	536
65°	391	383	372	368	368	387
75°	200	193	187	185	189	211
85°	45	45	43	42	41	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.0	1363.0	1363.0	1363.0	<i>1363.0</i>
2.5°	<i>1363.0</i>	<i>1361.6</i>	<i>1360.3</i>	<i>1361.6</i>	<i>1364.4</i>
5°	1358.9	1356.2	1356.2	1356.2	<i>1358.9</i>
7.5°	1349.4	1346.7	1345.3	1346.7	<i>1348.1</i>
10°	1335.8	1333.1	1331.8	1333.1	<i>1334.5</i>
12.5°	1316.8	1315.5	1314.1	1314.1	<i>1315.5</i>
15°	1297.8	1292.4	1291.0	1289.7	<i>1291.0</i>
17.5°	1270.7	1269.3	1263.9	1263.9	<i>1263.9</i>
20°	1240.8	1238.1	1234.0	1231.3	<i>1231.3</i>
22.5°	1209.6	1206.9	1200.1	1197.4	<i>1198.7</i>
25°	1174.3	1168.9	1163.4	1160.7	<i>1159.4</i>
27.5°	1136.3	1130.9	1122.7	1118.6	<i>1118.6</i>
30°	1095.6	1091.5	1082.0	1076.6	<i>1075.2</i>
32.5°	1050.8	1048.0	1034.5	1031.8	<i>1031.8</i>
35°	1008.7	1000.5	989.7	984.2	<i>982.9</i>
37.5°	958.4	953.0	942.2	935.4	<i>934.0</i>
40°	908.2	901.4	890.6	885.1	<i>883.8</i>
42.5°	858.0	851.2	840.3	833.5	<i>832.2</i>
45°	806.4	801.0	787.4	780.6	<i>780.6</i>
47.5°	757.5	746.7	734.4	729.0	<i>727.7</i>
50°	704.6	695.1	681.5	676.1	<i>676.1</i>
52.5°	651.6	644.8	629.9	627.2	<i>624.5</i>
55°	600.0	589.2	578.3	571.5	<i>570.2</i>
57.5°	544.4	534.9	524.0	518.6	<i>518.6</i>
60°	496.9	484.7	475.1	468.4	<i>468.4</i>
62.5°	442.6	431.7	422.2	418.1	<i>416.8</i>
65°	391.0	382.8	372.0	367.9	<i>367.9</i>
67.5°	339.4	332.6	323.1	319.0	<i>320.4</i>
70°	289.2	285.1	278.3	272.9	<i>271.5</i>
72.5°	243.0	237.6	230.8	229.4	<i>229.4</i>
75°	199.6	192.8	187.3	184.6	<i>188.7</i>
77.5°	154.8	150.7	148.0	146.6	<i>148.0</i>
80°	115.4	110.0	108.6	110.0	<i>110.0</i>
82.5°	80.1	77.4	76.0	76.0	<i>76.0</i>
85°	44.8	44.8	43.4	42.1	<i>40.7</i>
87.5°	17.6	17.6	19.0	19.0	<i>20.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)