

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: P601114

Luminaire Tested: 22D3X-LP-45-L935

Issue Date: 10/5/2023

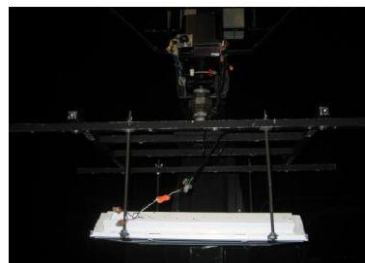
Test Information

Test Method: LM-79-2019
Report Number: P601114
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-45-L935
Description: 2x2 D3X-LP AT 4500LM 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

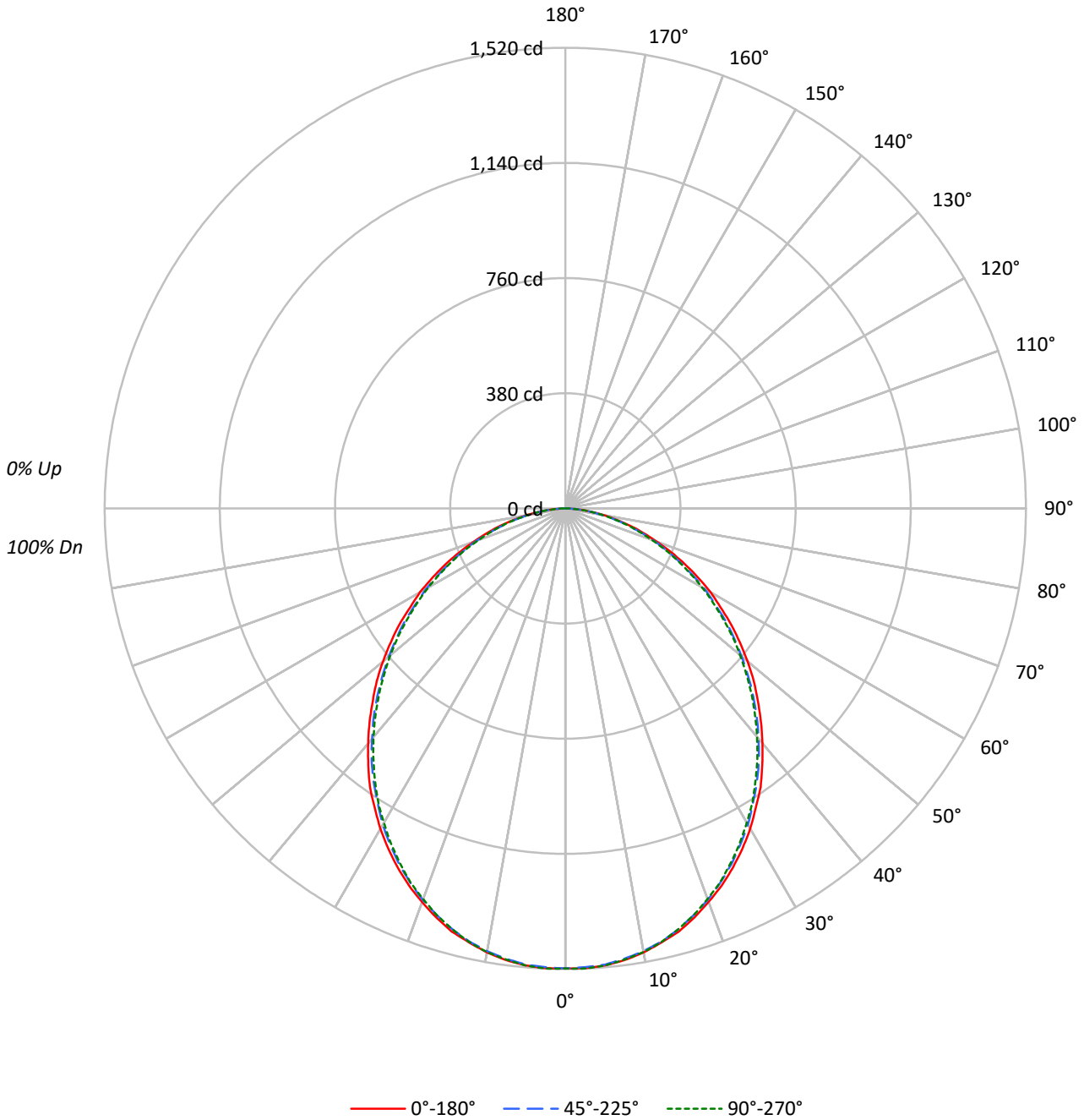
Lumens per Lamp: N/A
Luminaire Lumens: 3794.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	4086	4086	4086
5°	4089	4081	4089
10°	4066	4054	4062
15°	4028	4006	4006
20°	3958	3936	3928
25°	3884	3848	3834
30°	3792	3745	3722
35°	3691	3621	3597
40°	3554	3485	3458
45°	3419	3338	3309
50°	3286	3178	3153
55°	3136	3022	2980
60°	2979	2849	2808
65°	2773	2638	2609
70°	2534	2439	2379
75°	2311	2170	2185
80°	1991	1875	1898
85°	1541	1494	1402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	3.8
10°-20°	405.5	10.7
20°-30°	597.3	15.7
30°-40°	690.9	18.2
40°-50°	679.2	17.9
50°-60°	578.9	15.3
60°-70°	414.8	10.9
70°-80°	225.3	5.9
80°-90°	58.8	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°	1146.2	30.2
0°-40°	1837.1	48.4
0°-60°	3095.2	81.6
0°-90°	3794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1514	1511	1511	1511	1514	144
15°	1446	1440	1438	1437	1438	407
25°	1308	1302	1296	1293	1291	602
35°	1124	1114	1102	1096	1095	701
45°	898	892	877	870	870	694
55°	668	656	644	637	635	597
65°	436	426	414	410	410	431
75°	222	215	209	206	210	235
85°	50	50	48	47	45	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.3	1518.3	1518.3	1518.3	<i>1518.3</i>
2.5°	<i>1518.3</i>	<i>1516.8</i>	<i>1515.2</i>	<i>1516.8</i>	<i>1519.8</i>
5°	1513.7	1510.7	1510.7	1510.7	<i>1513.7</i>
7.5°	1503.1	1500.1	1498.6	1500.1	<i>1501.6</i>
10°	1488.0	1485.0	1483.5	1485.0	<i>1486.5</i>
12.5°	1466.8	1465.3	1463.8	1463.8	<i>1465.3</i>
15°	1445.7	1439.6	1438.1	1436.6	<i>1438.1</i>
17.5°	1415.4	1413.9	1407.9	1407.9	<i>1407.9</i>
20°	1382.2	1379.1	1374.6	1371.6	<i>1371.6</i>
22.5°	1347.4	1344.4	1336.8	1333.8	<i>1335.3</i>
25°	1308.1	1302.0	1296.0	1292.9	<i>1291.4</i>
27.5°	1265.7	1259.7	1250.6	1246.1	<i>1246.1</i>
30°	1220.4	1215.8	1205.2	1199.2	<i>1197.7</i>
32.5°	1170.5	1167.4	1152.3	1149.3	<i>1149.3</i>
35°	1123.6	1114.5	1102.4	1096.4	<i>1094.8</i>
37.5°	1067.6	1061.6	1049.5	1041.9	<i>1040.4</i>
40°	1011.7	1004.1	992.0	986.0	<i>984.5</i>
42.5°	955.7	948.2	936.1	928.5	<i>927.0</i>
45°	898.3	892.2	877.1	869.5	<i>869.5</i>
47.5°	843.8	831.7	818.1	812.1	<i>810.5</i>
50°	784.8	774.3	759.1	753.1	<i>753.1</i>
52.5°	725.9	718.3	701.7	698.6	<i>695.6</i>
55°	668.4	656.3	644.2	636.6	<i>635.1</i>
57.5°	606.4	595.8	583.7	577.7	<i>577.7</i>
60°	553.5	539.9	529.3	521.7	<i>521.7</i>
62.5°	493.0	480.9	470.3	465.8	<i>464.3</i>
65°	435.5	426.4	414.3	409.8	<i>409.8</i>
67.5°	378.1	370.5	359.9	355.4	<i>356.9</i>
70°	322.1	317.6	310.0	304.0	<i>302.4</i>
72.5°	270.7	264.6	257.1	255.6	<i>255.6</i>
75°	222.3	214.7	208.7	205.7	<i>210.2</i>
77.5°	172.4	167.9	164.8	163.3	<i>164.8</i>
80°	128.5	122.5	121.0	122.5	<i>122.5</i>
82.5°	89.2	86.2	84.7	84.7	<i>84.7</i>
85°	49.9	49.9	48.4	46.9	<i>45.4</i>
87.5°	19.7	19.7	21.2	21.2	<i>22.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)