

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: P601139

Luminaire Tested: 22D3X-LP-70-L940

Issue Date: 10/5/2023

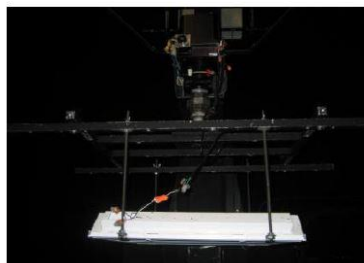
Test Information

Test Method: LM-79-2019
Report Number: P601139
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-70-L940
Description: 2x2 D3X-LP AT 7000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

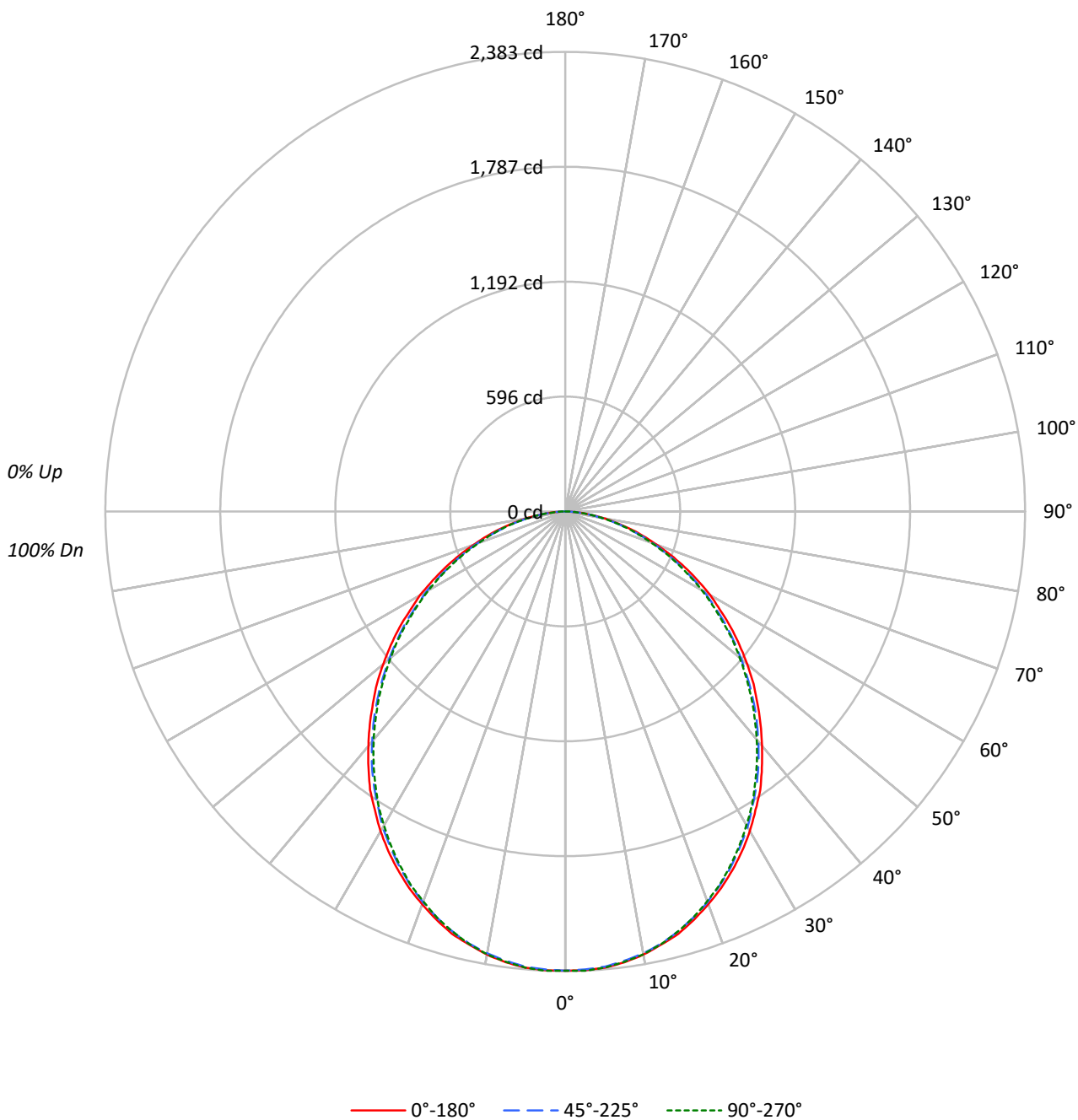
Lumens per Lamp: N/A
Luminaire Lumens: 5950.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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



TEST NUMBER: P601139
CATALOG NUMBER: 22D3X-LP-70-L940

Luminous Intensity Polar Plot





TEST NUMBER: P601139
 CATALOG NUMBER: 22D3X-LP-70-L940

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°	6407	6407	6407
5°	6413	6400	6413
10°	6377	6357	6370
15°	6316	6283	6283
20°	6207	6173	6160
25°	6091	6035	6013
30°	5947	5873	5836
35°	5789	5680	5640
40°	5573	5465	5423
45°	5361	5235	5189
50°	5153	4984	4944
55°	4918	4740	4673
60°	4672	4467	4404
65°	4349	4138	4092
70°	3974	3825	3732
75°	3624	3403	3427
80°	3124	2940	2977
85°	2418	2343	2195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5361 cd/sqm



TEST NUMBER: P601139
 CATALOG NUMBER: 22D3X-LP-70-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	3.8
10°-20°	636.0	10.7
20°-30°	936.7	15.7
30°-40°	1083.5	18.2
40°-50°	1065.2	17.9
50°-60°	907.8	15.3
60°-70°	650.5	10.9
70°-80°	353.3	5.9
80°-90°	92.2	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°	1797.5	30.2
0°-40°	2881.0	48.4
0°-60°	4854.1	81.6
0°-90°	5950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2374	2369	2369	2369	2374	225
15°	2267	2258	2255	2253	2255	638
25°	2051	2042	2032	2028	2025	944
35°	1762	1748	1729	1719	1717	1099
45°	1409	1399	1376	1364	1364	1088
55°	1048	1029	1010	998	996	936
65°	683	669	650	643	643	677
75°	349	337	327	322	330	368
85°	78	78	76	74	71	95
90°	0	0	0	0	0	



TEST NUMBER: P601139
 CATALOG NUMBER: 22D3X-LP-70-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.0	2381.0	2381.0	2381.0	<i>2381.0</i>
2.5°	<i>2381.0</i>	<i>2378.7</i>	<i>2376.3</i>	<i>2378.7</i>	<i>2383.4</i>
5°	2373.9	2369.2	2369.2	2369.2	<i>2373.9</i>
7.5°	2357.3	2352.6	2350.2	2352.6	<i>2355.0</i>
10°	2333.6	2328.9	2326.5	2328.9	<i>2331.2</i>
12.5°	2300.4	2298.0	2295.7	2295.7	<i>2298.0</i>
15°	2267.2	2257.7	2255.3	2253.0	<i>2255.3</i>
17.5°	2219.8	2217.4	2207.9	2207.9	<i>2207.9</i>
20°	2167.6	2162.9	2155.7	2151.0	<i>2151.0</i>
22.5°	2113.1	2108.3	2096.5	2091.7	<i>2094.1</i>
25°	2051.4	2041.9	2032.4	2027.7	<i>2025.3</i>
27.5°	1985.0	1975.5	1961.3	1954.2	<i>1954.2</i>
30°	1913.8	1906.7	1890.1	1880.6	<i>1878.3</i>
32.5°	1835.6	1830.8	1807.1	1802.4	<i>1802.4</i>
35°	1762.1	1747.8	1728.9	1719.4	<i>1717.0</i>
37.5°	1674.3	1664.8	1645.9	1634.0	<i>1631.6</i>
40°	1586.6	1574.7	1555.7	1546.3	<i>1543.9</i>
42.5°	1498.8	1487.0	1468.0	1456.1	<i>1453.8</i>
45°	1408.7	1399.2	1375.5	1363.6	<i>1363.6</i>
47.5°	1323.3	1304.4	1283.0	1273.5	<i>1271.2</i>
50°	1230.8	1214.2	1190.5	1181.0	<i>1181.0</i>
52.5°	1138.3	1126.5	1100.4	1095.7	<i>1090.9</i>
55°	1048.2	1029.3	1010.3	998.4	<i>996.1</i>
57.5°	951.0	934.4	915.4	905.9	<i>905.9</i>
60°	868.0	846.6	830.0	818.2	<i>818.2</i>
62.5°	773.1	754.2	737.6	730.4	<i>728.1</i>
65°	683.0	668.8	649.8	642.7	<i>642.7</i>
67.5°	592.9	581.0	564.4	557.3	<i>559.7</i>
70°	505.1	498.0	486.2	476.7	<i>474.3</i>
72.5°	424.5	415.0	403.2	400.8	<i>400.8</i>
75°	348.6	336.8	327.3	322.5	<i>329.6</i>
77.5°	270.4	263.2	258.5	256.1	<i>258.5</i>
80°	201.6	192.1	189.7	192.1	<i>192.1</i>
82.5°	139.9	135.2	132.8	132.8	<i>132.8</i>
85°	78.3	78.3	75.9	73.5	<i>71.1</i>
87.5°	30.8	30.8	33.2	33.2	<i>35.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)