

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: P601122

Luminaire Tested: 22D3X-LP-55-L830

Issue Date: 10/5/2023

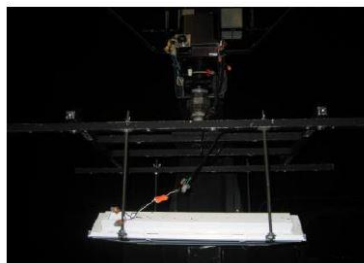
Test Information

Test Method: LM-79-2019
Report Number: P601122
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-55-L830
Description: 2x2 D3X-LP AT 5500LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

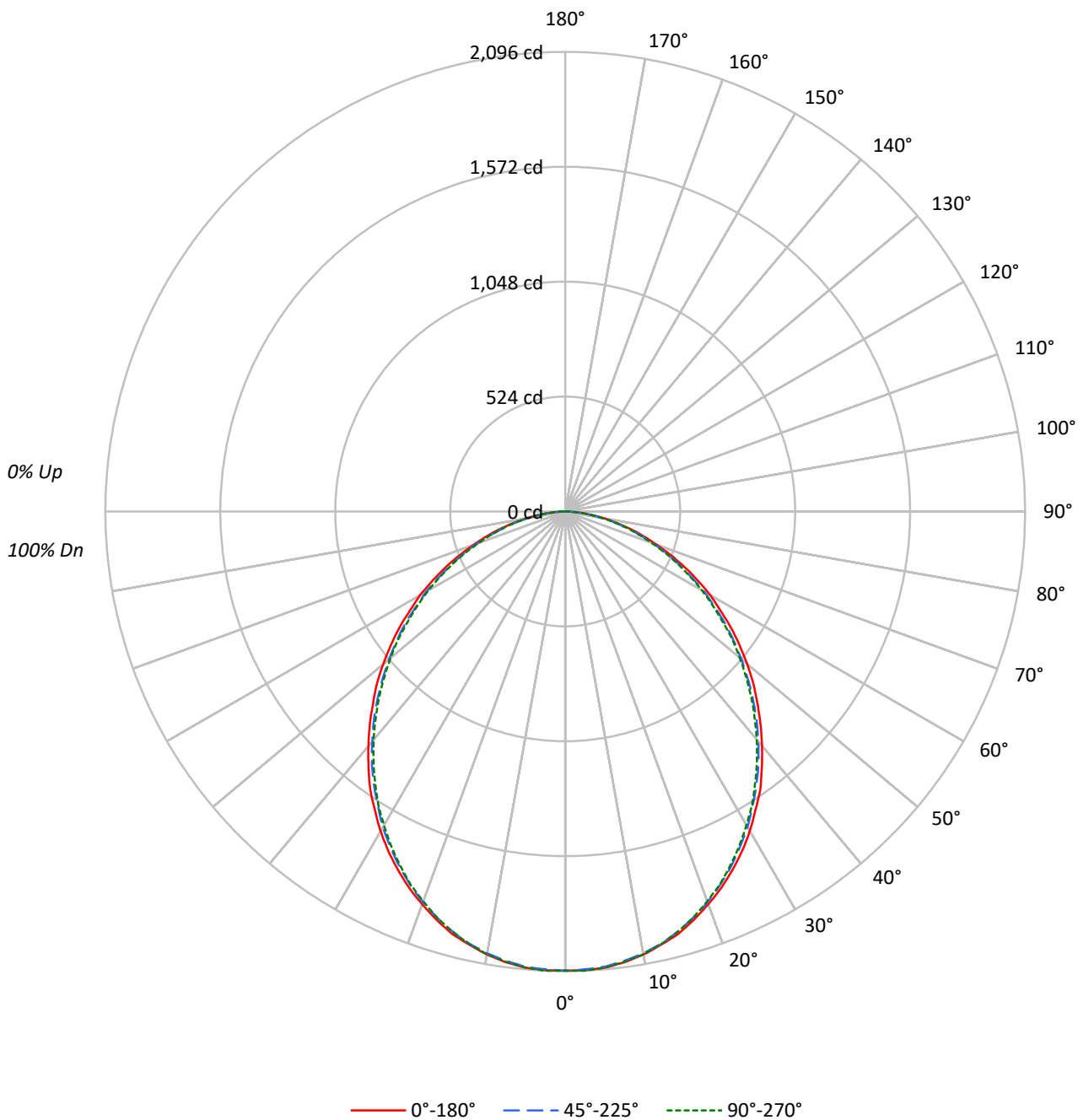
Lumens per Lamp: N/A
Luminaire Lumens: 5233.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5635	5635	5635
5°	5640	5629	5640
10°	5608	5591	5602
15°	5555	5526	5526
20°	5459	5430	5418
25°	5357	5307	5289
30°	5230	5166	5133
35°	5091	4995	4961
40°	4902	4807	4770
45°	4715	4604	4564
50°	4532	4384	4348
55°	4325	4168	4110
60°	4109	3929	3873
65°	3825	3639	3599
70°	3496	3364	3282
75°	3188	2992	3014
80°	2748	2586	2617
85°	2124	2059	1933

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	3.8
10°-20°	559.3	10.7
20°-30°	823.8	15.7
30°-40°	953.0	18.2
40°-50°	936.9	17.9
50°-60°	798.4	15.3
60°-70°	572.1	10.9
70°-80°	310.7	5.9
80°-90°	81.1	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°	1580.9	30.2
0°-40°	2533.9	48.4
0°-60°	4269.2	81.6
0°-90°	5233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2088	2084	2084	2084	2088	198
15°	1994	1986	1984	1982	1984	561
25°	1804	1796	1788	1783	1781	830
35°	1550	1537	1520	1512	1510	966
45°	1239	1231	1210	1199	1199	957
55°	922	905	888	878	876	823
65°	601	588	572	565	565	595
75°	307	296	288	284	290	324
85°	69	69	67	65	63	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2094.1	2094.1	2094.1	2094.1	<i>2094.1</i>
2.5°	<i>2094.1</i>	<i>2092.0</i>	<i>2089.9</i>	<i>2092.0</i>	<i>2096.2</i>
5°	2087.9	2083.7	2083.7	2083.7	<i>2087.9</i>
7.5°	2073.3	2069.1	2067.0	2069.1	<i>2071.2</i>
10°	2052.4	2048.2	2046.1	2048.2	<i>2050.3</i>
12.5°	2023.2	2021.1	2019.0	2019.0	<i>2021.1</i>
15°	1994.0	1985.7	1983.6	1981.5	<i>1983.6</i>
17.5°	1952.3	1950.2	1941.9	1941.9	<i>1941.9</i>
20°	1906.4	1902.2	1896.0	1891.8	<i>1891.8</i>
22.5°	1858.4	1854.3	1843.8	1839.7	<i>1841.7</i>
25°	1804.2	1795.9	1787.5	1783.3	<i>1781.3</i>
27.5°	1745.8	1737.4	1724.9	1718.7	<i>1718.7</i>
30°	1683.2	1677.0	1662.4	1654.0	<i>1651.9</i>
32.5°	1614.4	1610.2	1589.4	1585.2	<i>1585.2</i>
35°	1549.7	1537.2	1520.5	1512.2	<i>1510.1</i>
37.5°	1472.6	1464.2	1447.5	1437.1	<i>1435.0</i>
40°	1395.4	1385.0	1368.3	1359.9	<i>1357.8</i>
42.5°	1318.2	1307.8	1291.1	1280.7	<i>1278.6</i>
45°	1238.9	1230.6	1209.7	1199.3	<i>1199.3</i>
47.5°	1163.9	1147.2	1128.4	1120.1	<i>1118.0</i>
50°	1082.5	1067.9	1047.1	1038.7	<i>1038.7</i>
52.5°	1001.2	990.7	967.8	963.6	<i>959.5</i>
55°	921.9	905.2	888.5	878.1	<i>876.0</i>
57.5°	836.4	821.8	805.1	796.8	<i>796.8</i>
60°	763.4	744.6	730.0	719.6	<i>719.6</i>
62.5°	680.0	663.3	648.7	642.4	<i>640.3</i>
65°	600.7	588.2	571.5	565.2	<i>565.2</i>
67.5°	521.4	511.0	496.4	490.2	<i>492.2</i>
70°	444.3	438.0	427.6	419.2	<i>417.2</i>
72.5°	373.4	365.0	354.6	352.5	<i>352.5</i>
75°	306.6	296.2	287.8	283.7	<i>289.9</i>
77.5°	237.8	231.5	227.3	225.3	<i>227.3</i>
80°	177.3	168.9	166.9	168.9	<i>168.9</i>
82.5°	123.1	118.9	116.8	116.8	<i>116.8</i>
85°	68.8	68.8	66.7	64.7	<i>62.6</i>
87.5°	27.1	27.1	29.2	29.2	<i>31.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)