

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: P601105

Luminaire Tested: 22D3X-LP-40-L835

Issue Date: 10/5/2023

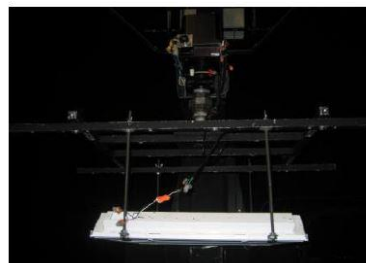
Test Information

Test Method: LM-79-2019
Report Number: P601105
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-L835
Description: 2x2 D3X-LP AT 4000LM 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

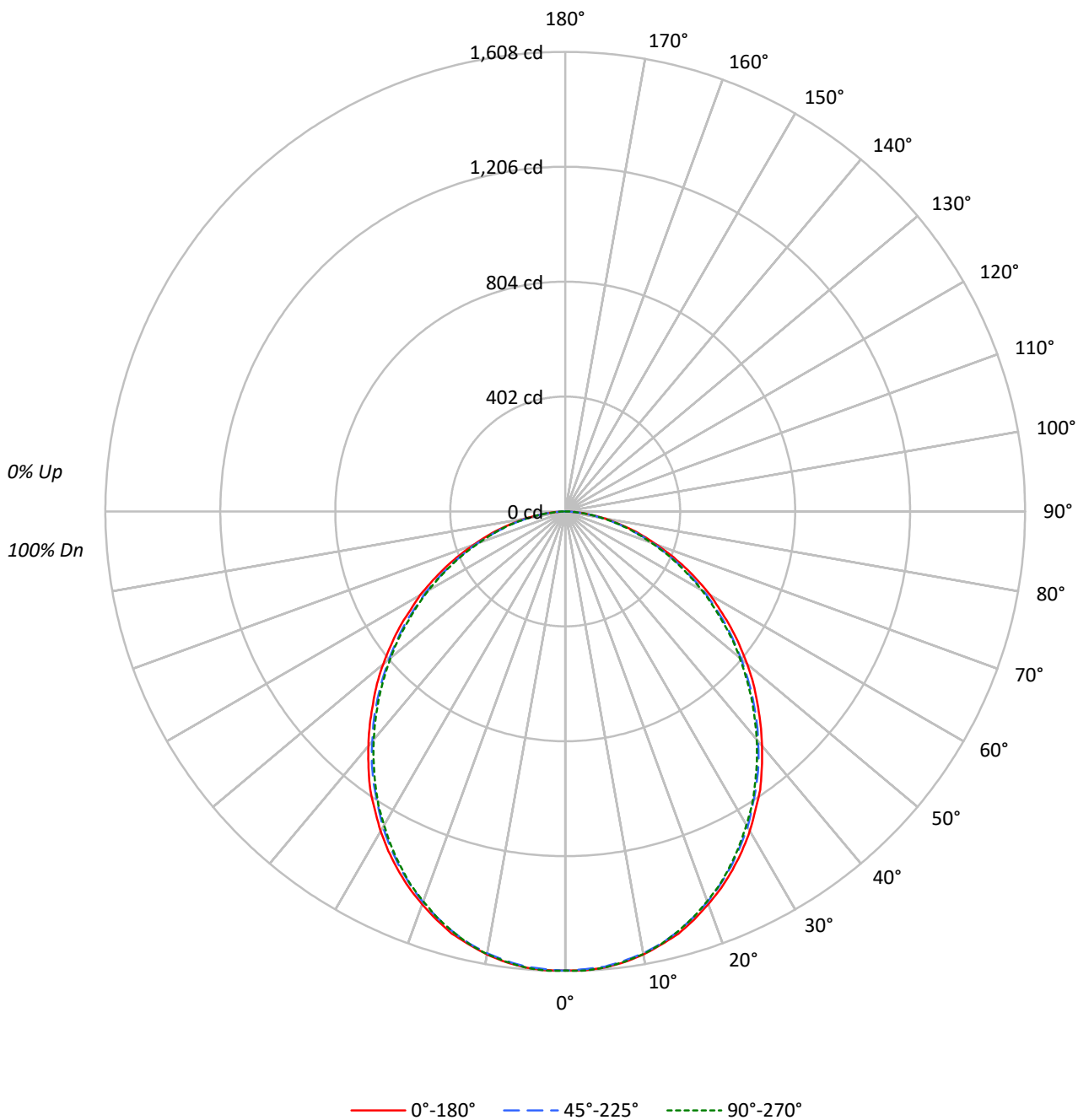
Lumens per Lamp: N/A
Luminaire Lumens: 4014.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4323	4323	4323
5°	4326	4317	4326
10°	4302	4289	4297
15°	4261	4239	4239
20°	4188	4165	4155
25°	4109	4071	4057
30°	4012	3962	3937
35°	3905	3831	3805
40°	3760	3687	3659
45°	3616	3531	3501
50°	3476	3363	3336
55°	3318	3198	3153
60°	3152	3014	2971
65°	2934	2791	2761
70°	2681	2581	2518
75°	2445	2296	2312
80°	2108	1984	2008
85°	1630	1581	1482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.8
10°-20°	429.0	10.7
20°-30°	631.9	15.7
30°-40°	730.9	18.2
40°-50°	718.6	17.9
50°-60°	612.5	15.3
60°-70°	438.8	10.9
70°-80°	238.3	5.9
80°-90°	62.2	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°	1212.6	30.2
0°-40°	1943.6	48.4
0°-60°	3274.7	81.6
0°-90°	4014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1602	1598	1598	1598	1602	152
15°	1530	1523	1522	1520	1522	430
25°	1384	1378	1371	1368	1366	637
35°	1189	1179	1166	1160	1158	741
45°	950	944	928	920	920	734
55°	707	694	682	674	672	631
65°	461	451	438	434	434	456
75°	235	227	221	218	222	248
85°	53	53	51	50	48	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.3	1606.3	1606.3	1606.3	1606.3
2.5°	1606.3	1604.7	1603.1	1604.7	1607.9
5°	1601.5	1598.3	1598.3	1598.3	1601.5
7.5°	1590.3	1587.1	1585.5	1587.1	1588.7
10°	1574.3	1571.1	1569.5	1571.1	1572.7
12.5°	1551.9	1550.3	1548.7	1548.7	1550.3
15°	1529.5	1523.1	1521.5	1519.9	1521.5
17.5°	1497.5	1495.9	1489.5	1489.5	1489.5
20°	1462.3	1459.1	1454.3	1451.1	1451.1
22.5°	1425.5	1422.3	1414.3	1411.1	1412.7
25°	1383.9	1377.5	1371.1	1367.9	1366.3
27.5°	1339.1	1332.7	1323.1	1318.3	1318.3
30°	1291.1	1286.3	1275.1	1268.7	1267.1
32.5°	1238.3	1235.1	1219.1	1215.9	1215.9
35°	1188.7	1179.1	1166.3	1159.9	1158.3
37.5°	1129.5	1123.1	1110.3	1102.3	1100.7
40°	1070.3	1062.3	1049.5	1043.1	1041.5
42.5°	1011.1	1003.1	990.3	982.3	980.7
45°	950.3	943.9	927.9	919.9	919.9
47.5°	892.7	879.9	865.5	859.1	857.5
50°	830.3	819.2	803.2	796.8	796.8
52.5°	768.0	760.0	742.4	739.2	736.0
55°	707.2	694.4	681.6	673.6	672.0
57.5°	641.6	630.4	617.6	611.2	611.2
60°	585.6	571.2	560.0	552.0	552.0
62.5°	521.6	508.8	497.6	492.8	491.2
65°	460.8	451.2	438.4	433.6	433.6
67.5°	400.0	392.0	380.8	376.0	377.6
70°	340.8	336.0	328.0	321.6	320.0
72.5°	286.4	280.0	272.0	270.4	270.4
75°	235.2	227.2	220.8	217.6	222.4
77.5°	182.4	177.6	174.4	172.8	174.4
80°	136.0	129.6	128.0	129.6	129.6
82.5°	94.4	91.2	89.6	89.6	89.6
85°	52.8	52.8	51.2	49.6	48.0
87.5°	20.8	20.8	22.4	22.4	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)