

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: P601106

Luminaire Tested: 22D3X-LP-40-L840

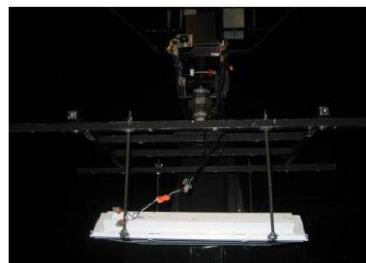
Issue Date: 10/5/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601106  
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-L840  
Description: 2x2 D3X-LP AT 4000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

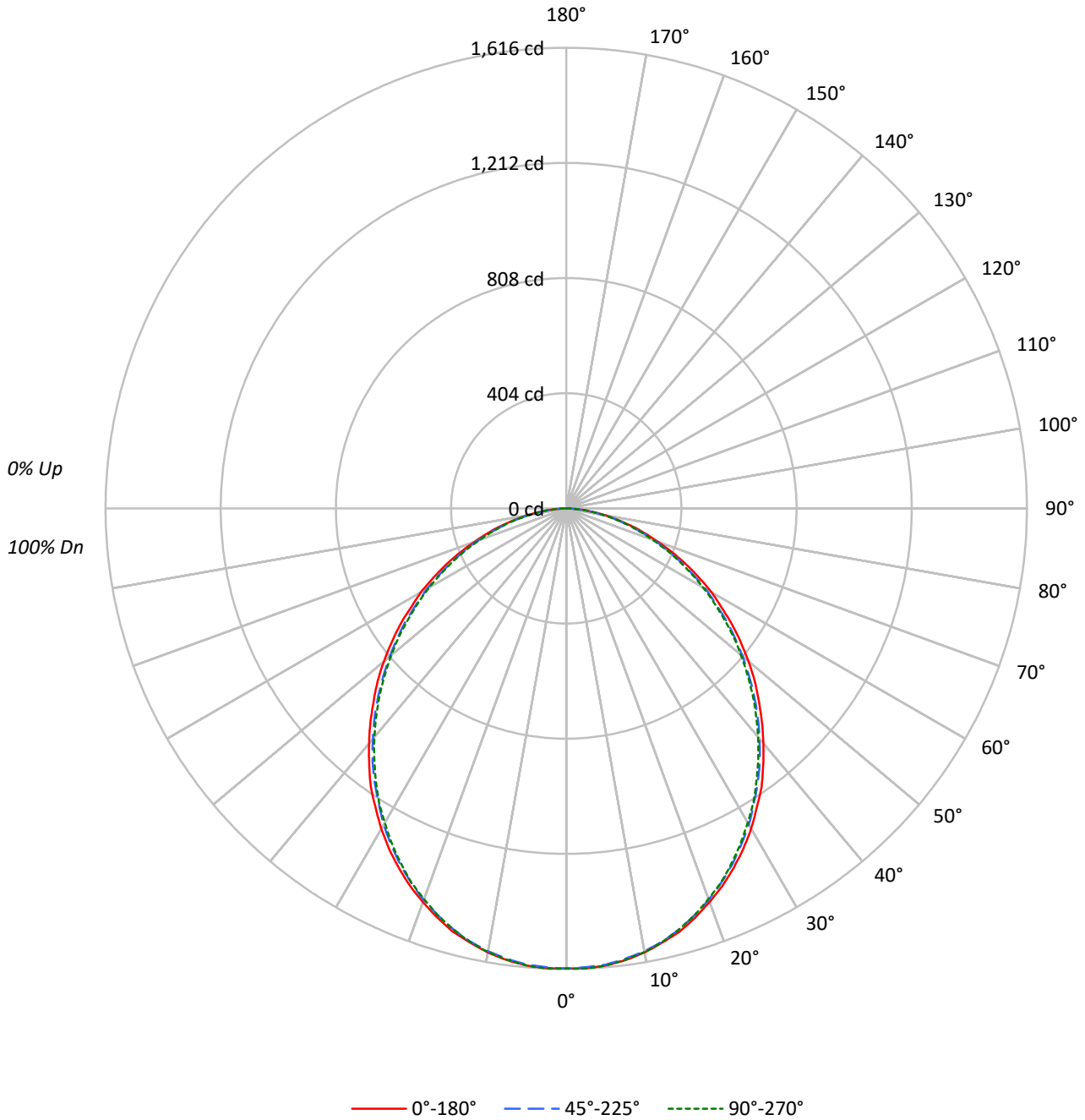
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4034.0 lumens  
Efficiency: N/A  
Efficacy: 123.7 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



TEST NUMBER: P601106  
CATALOG NUMBER: 22D3X-LP-40-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P601106  
 CATALOG NUMBER: 22D3X-LP-40-L840

**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°	4344	4344	4344
5°	4348	4339	4348
10°	4323	4310	4319
15°	4282	4260	4260
20°	4208	4186	4176
25°	4130	4091	4077
30°	4032	3982	3957
35°	3925	3850	3824
40°	3779	3705	3677
45°	3635	3549	3518
50°	3494	3379	3352
55°	3334	3214	3168
60°	3167	3029	2985
65°	2949	2805	2774
70°	2695	2593	2530
75°	2458	2307	2324
80°	2118	1993	2018
85°	1639	1590	1488

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3635 cd/sqm



TEST NUMBER: P601106  
 CATALOG NUMBER: 22D3X-LP-40-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.5	3.8
10°-20°	431.2	10.7
20°-30°	635.0	15.7
30°-40°	734.6	18.2
40°-50°	722.2	17.9
50°-60°	615.5	15.3
60°-70°	441.0	10.9
70°-80°	239.5	5.9
80°-90°	62.5	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°	1218.7	30.2
0°-40°	1953.3	48.4
0°-60°	3291.0	81.6
0°-90°	4034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1610	1606	1606	1606	1610	153
15°	1537	1531	1529	1528	1529	433
25°	1391	1384	1378	1375	1373	640
35°	1195	1185	1172	1166	1164	745
45°	955	949	933	924	924	738
55°	711	698	685	677	675	635
65°	463	453	441	436	436	459
75°	236	228	222	219	224	250
85°	53	53	52	50	48	65
90°	0	0	0	0	0	



TEST NUMBER: P601106  
 CATALOG NUMBER: 22D3X-LP-40-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1614.3	1614.3	1614.3	1614.3	1614.3
2.5°	1614.3	1612.7	1611.1	1612.7	1615.9
5°	1609.5	1606.3	1606.3	1606.3	1609.5
7.5°	1598.2	1595.0	1593.4	1595.0	1596.6
10°	1582.1	1578.9	1577.3	1578.9	1580.5
12.5°	1559.6	1558.0	1556.4	1556.4	1558.0
15°	1537.1	1530.7	1529.1	1527.5	1529.1
17.5°	1505.0	1503.4	1496.9	1496.9	1496.9
20°	1469.6	1466.4	1461.6	1458.3	1458.3
22.5°	1432.6	1429.4	1421.4	1418.1	1419.8
25°	1390.8	1384.4	1377.9	1374.7	1373.1
27.5°	1345.8	1339.4	1329.7	1324.9	1324.9
30°	1297.6	1292.7	1281.5	1275.0	1273.4
32.5°	1244.5	1241.3	1225.2	1222.0	1222.0
35°	1194.7	1185.0	1172.1	1165.7	1164.1
37.5°	1135.2	1128.7	1115.9	1107.8	1106.2
40°	1075.7	1067.6	1054.8	1048.3	1046.7
42.5°	1016.2	1008.1	995.3	987.2	985.6
45°	955.1	948.6	932.6	924.5	924.5
47.5°	897.2	884.3	869.9	863.4	861.8
50°	834.5	823.2	807.2	800.7	800.7
52.5°	771.8	763.7	746.1	742.8	739.6
55°	710.7	697.8	685.0	676.9	675.3
57.5°	644.8	633.5	620.6	614.2	614.2
60°	588.5	574.0	562.8	554.7	554.7
62.5°	524.2	511.3	500.0	495.2	493.6
65°	463.1	453.4	440.6	435.7	435.7
67.5°	402.0	393.9	382.7	377.9	379.5
70°	342.5	337.7	329.6	323.2	321.6
72.5°	287.8	281.4	273.3	271.7	271.7
75°	236.4	228.3	221.9	218.7	223.5
77.5°	183.3	178.5	175.3	173.7	175.3
80°	136.7	130.2	128.6	130.2	130.2
82.5°	94.9	91.6	90.0	90.0	90.0
85°	53.1	53.1	51.5	49.8	48.2
87.5°	20.9	20.9	22.5	22.5	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)