

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: P601100

Luminaire Tested: 22D3X-LP-35-L840

Issue Date: 10/5/2023

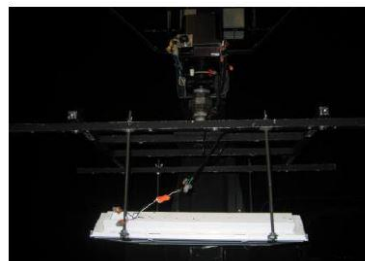
Test Information

Test Method: LM-79-2019
Report Number: P601100
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-35-L840
Description: 2x2 D3X-LP AT 3500LM 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

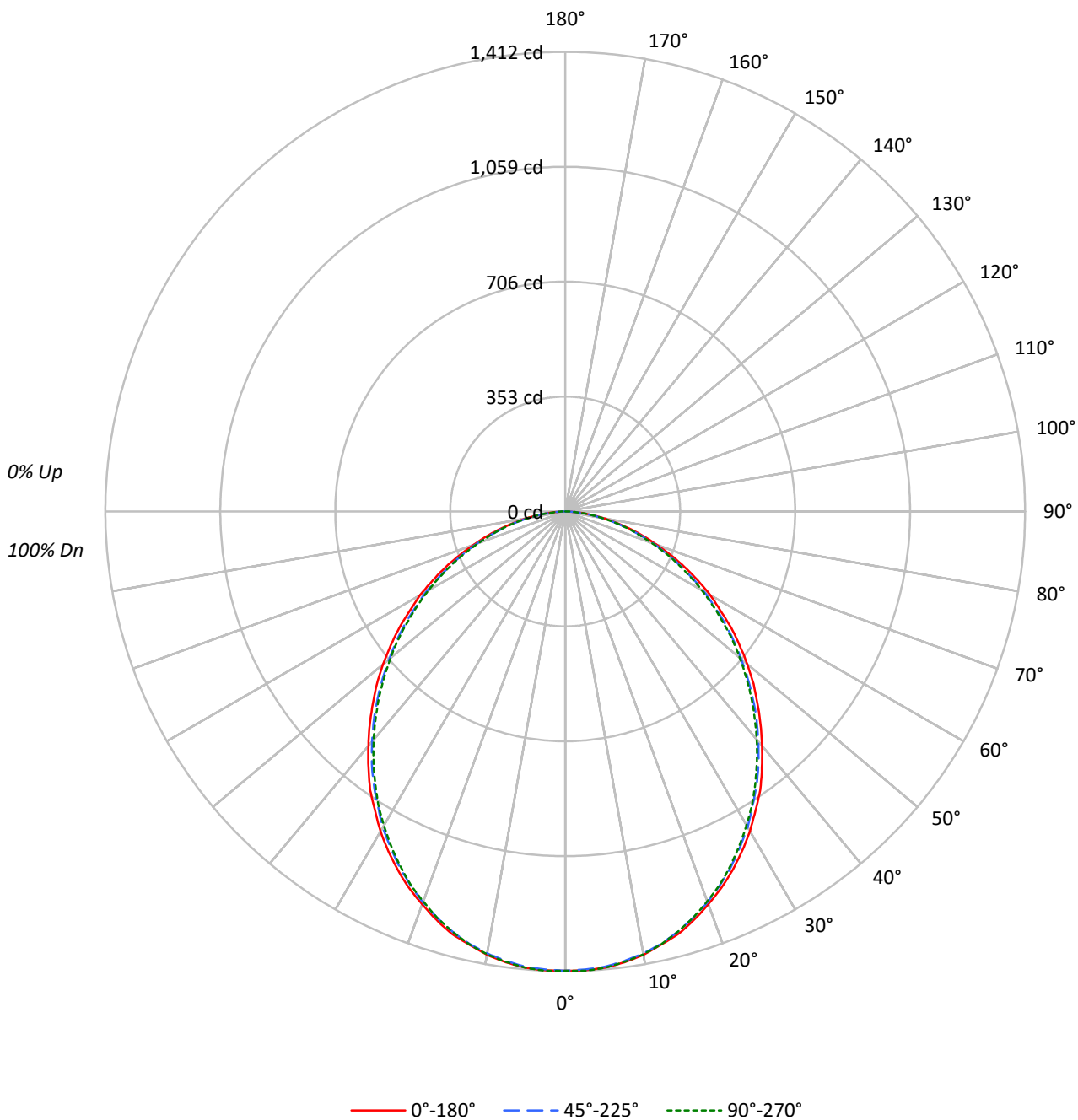
Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	3797	3797	3797
5°	3800	3793	3800
10°	3779	3767	3775
15°	3743	3723	3723
20°	3678	3658	3650
25°	3610	3576	3564
30°	3524	3480	3459
35°	3430	3366	3343
40°	3303	3238	3214
45°	3177	3102	3075
50°	3054	2954	2930
55°	2914	2809	2769
60°	2768	2647	2610
65°	2578	2452	2425
70°	2355	2267	2212
75°	2148	2016	2032
80°	1852	1742	1764
85°	1433	1389	1303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3177 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.8
10°-20°	376.9	10.7
20°-30°	555.1	15.7
30°-40°	642.1	18.2
40°-50°	631.3	17.9
50°-60°	538.0	15.3
60°-70°	385.5	10.9
70°-80°	209.3	5.9
80°-90°	54.6	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°	1065.2	30.2
0°-40°	1707.3	48.4
0°-60°	2876.6	81.6
0°-90°	3526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1407	1404	1404	1404	1407	134
15°	1344	1338	1336	1335	1336	378
25°	1216	1210	1204	1202	1200	560
35°	1044	1036	1024	1019	1018	651
45°	835	829	815	808	808	645
55°	621	610	599	592	590	555
65°	405	396	385	381	381	401
75°	207	200	194	191	195	218
85°	46	46	45	44	42	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.0	1411.0	1411.0	1411.0	<i>1411.0</i>
2.5°	<i>1411.0</i>	<i>1409.6</i>	<i>1408.2</i>	<i>1409.6</i>	<i>1412.4</i>
5°	1406.8	1404.0	1404.0	1404.0	<i>1406.8</i>
7.5°	1397.0	1394.2	1392.7	1394.2	<i>1395.6</i>
10°	1382.9	1380.1	1378.7	1380.1	<i>1381.5</i>
12.5°	1363.2	1361.8	1360.4	1360.4	<i>1361.8</i>
15°	1343.6	1337.9	1336.5	1335.1	<i>1336.5</i>
17.5°	1315.5	1314.0	1308.4	1308.4	<i>1308.4</i>
20°	1284.5	1281.7	1277.5	1274.7	<i>1274.7</i>
22.5°	1252.2	1249.4	1242.4	1239.6	<i>1241.0</i>
25°	1215.7	1210.0	1204.4	1201.6	<i>1200.2</i>
27.5°	1176.3	1170.7	1162.3	1158.0	<i>1158.0</i>
30°	1134.2	1129.9	1120.1	1114.5	<i>1113.1</i>
32.5°	1087.8	1085.0	1070.9	1068.1	<i>1068.1</i>
35°	1044.2	1035.8	1024.5	1018.9	<i>1017.5</i>
37.5°	992.2	986.6	975.3	968.3	<i>966.9</i>
40°	940.2	933.2	921.9	916.3	<i>914.9</i>
42.5°	888.2	881.2	869.9	862.9	<i>861.5</i>
45°	834.8	829.2	815.1	808.1	<i>808.1</i>
47.5°	784.2	773.0	760.3	754.7	<i>753.3</i>
50°	729.4	719.6	705.5	699.9	<i>699.9</i>
52.5°	674.6	667.6	652.1	649.3	<i>646.5</i>
55°	621.2	609.9	598.7	591.7	<i>590.3</i>
57.5°	563.6	553.7	542.5	536.9	<i>536.9</i>
60°	514.4	501.7	491.9	484.9	<i>484.9</i>
62.5°	458.2	446.9	437.1	432.9	<i>431.5</i>
65°	404.8	396.3	385.1	380.9	<i>380.9</i>
67.5°	351.3	344.3	334.5	330.3	<i>331.7</i>
70°	299.3	295.1	288.1	282.5	<i>281.1</i>
72.5°	251.6	245.9	238.9	237.5	<i>237.5</i>
75°	206.6	199.6	193.9	191.1	<i>195.4</i>
77.5°	160.2	156.0	153.2	151.8	<i>153.2</i>
80°	119.5	113.8	112.4	113.8	<i>113.8</i>
82.5°	82.9	80.1	78.7	78.7	<i>78.7</i>
85°	46.4	46.4	45.0	43.6	<i>42.2</i>
87.5°	18.3	18.3	19.7	19.7	<i>21.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)