

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: P601236

Luminaire Tested: 14D3X-LP-40-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-40-L840
Description: 1x4 D3X-LP AT 4000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

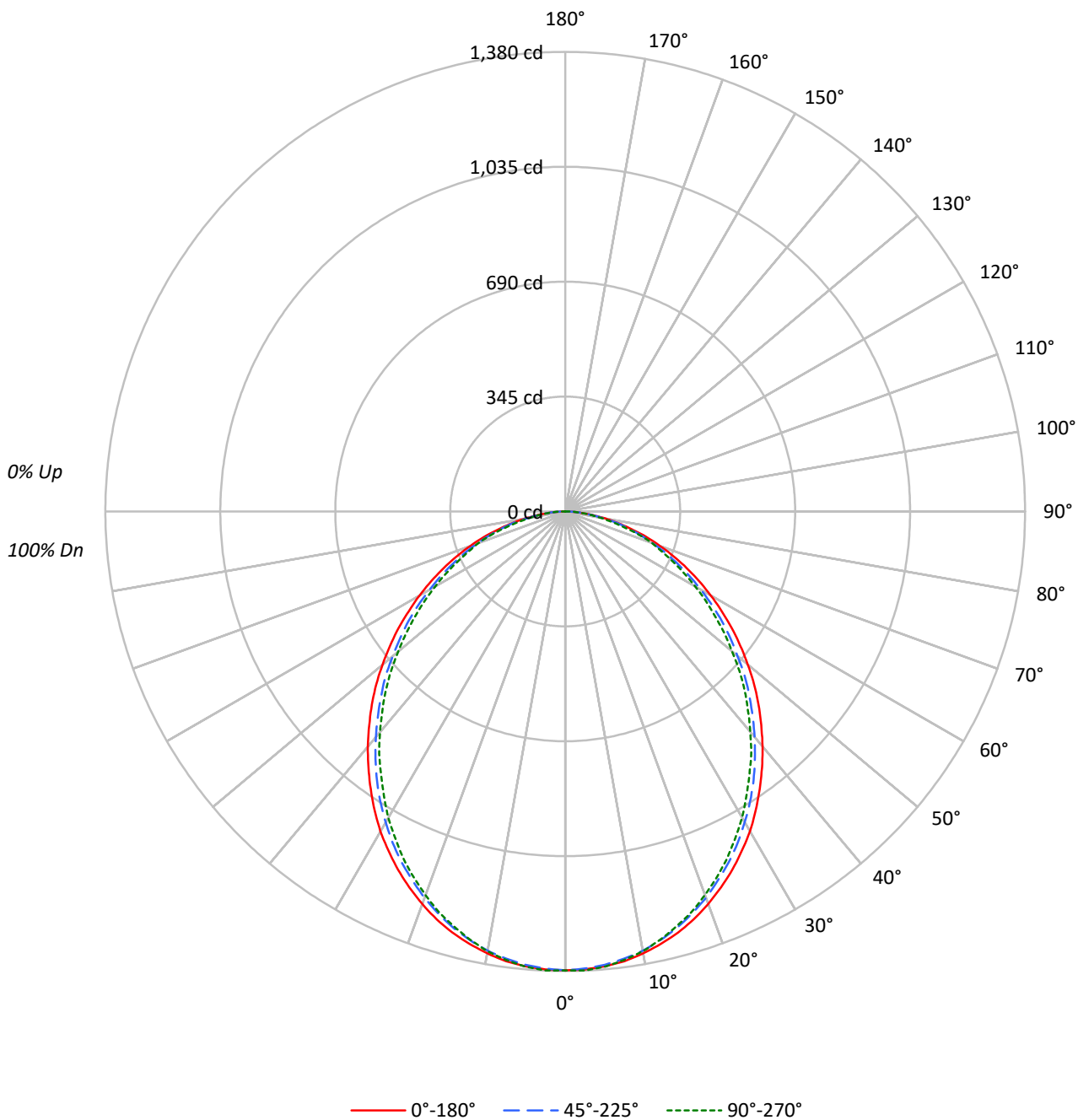
Lumens per Lamp: N/A
Luminaire Lumens: 3409.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	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	35
8	62	48	40	34	60	48	40	34	46	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°	3708	3708	3708
5°	3703	3691	3705
10°	3682	3660	3665
15°	3646	3607	3594
20°	3592	3535	3509
25°	3524	3450	3412
30°	3446	3348	3298
35°	3343	3237	3166
40°	3237	3105	3036
45°	3122	2972	2900
50°	2995	2826	2736
55°	2864	2692	2578
60°	2716	2528	2427
65°	2563	2369	2266
70°	2384	2208	2179
75°	2144	2041	1892
80°	1889	1765	1626
85°	1522	1522	1494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.8
10°-20°	365.5	10.7
20°-30°	536.0	15.7
30°-40°	617.4	18.1
40°-50°	605.8	17.8
50°-60°	515.5	15.1
60°-70°	372.7	10.9
70°-80°	208.2	6.1
80°-90°	58.0	1.7
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°	1031.4	30.3
0°-40°	1648.8	48.4
0°-60°	2770.1	81.3
0°-90°	3409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1371	1371	1366	1371	1372	130
15°	1309	1304	1295	1293	1290	369
25°	1187	1177	1162	1153	1149	546
35°	1018	1004	985	970	964	636
45°	820	804	781	766	762	633
55°	610	594	574	558	550	545
65°	402	392	372	358	356	399
75°	206	204	196	185	182	221
85°	49	52	49	48	48	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.9	1377.9	1377.9	1377.9	1377.9
2.5°	1376.1	1376.1	1373.5	1378.8	1379.7
5°	1370.8	1370.8	1366.3	1370.8	1371.7
7.5°	1361.8	1360.0	1354.6	1358.2	1358.2
10°	1347.5	1345.7	1339.4	1340.3	1341.2
12.5°	1329.5	1326.8	1318.8	1317.9	1317.0
15°	1308.9	1304.4	1294.6	1292.8	1290.1
17.5°	1283.8	1277.5	1265.9	1263.2	1261.4
20°	1254.2	1246.1	1234.5	1228.2	1225.5
22.5°	1221.9	1213.0	1198.6	1192.4	1188.8
25°	1187.0	1177.1	1161.9	1152.9	1149.3
27.5°	1148.4	1137.7	1121.5	1109.9	1105.4
30°	1109.0	1095.5	1077.6	1065.9	1061.5
32.5°	1064.2	1049.8	1032.8	1018.4	1012.2
35°	1017.5	1004.1	985.3	970.0	963.7
37.5°	970.0	957.5	935.1	921.6	917.1
40°	921.6	907.3	884.0	867.8	864.2
42.5°	870.5	858.0	832.0	818.5	812.2
45°	820.3	804.2	780.9	765.6	762.0
47.5°	769.2	751.3	730.7	713.6	709.1
50°	715.4	699.3	675.1	659.8	653.6
52.5°	662.5	648.2	624.0	606.9	602.5
55°	610.5	594.4	573.8	557.6	549.6
57.5°	555.8	543.3	521.8	506.5	500.3
60°	504.7	490.4	469.8	457.2	450.9
62.5°	452.7	438.4	421.4	407.9	402.5
65°	402.5	391.8	372.1	357.7	355.9
67.5°	352.3	343.4	326.3	312.0	312.9
70°	303.0	295.0	280.6	271.6	277.0
72.5°	256.4	251.9	235.8	229.5	232.2
75°	206.2	203.5	196.3	184.7	182.0
77.5°	164.1	165.9	157.8	143.4	139.9
80°	121.9	126.4	113.9	109.4	104.9
82.5°	84.3	90.5	79.8	76.2	74.4
85°	49.3	52.0	49.3	48.4	48.4
87.5°	20.6	24.2	24.2	25.1	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)