

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: P601266

Luminaire Tested: 14D3X-LP-70-L840

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601266
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-70-L840
Description: 1x4 D3X-LP AT 7000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

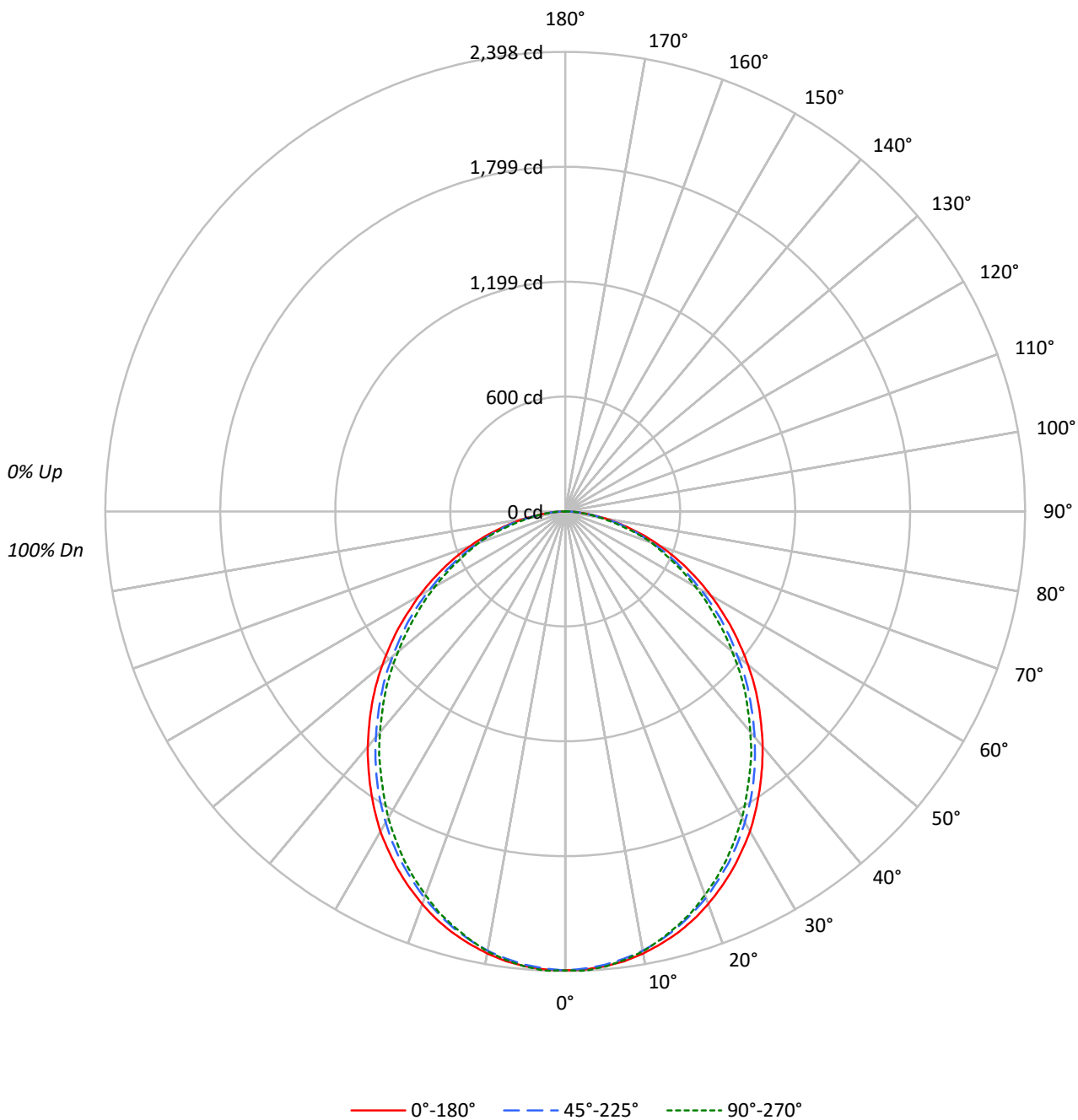
Lumens per Lamp: N/A
Luminaire Lumens: 5924.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 71.2
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	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°	6444	6444	6444
5°	6435	6414	6439
10°	6399	6360	6369
15°	6337	6268	6246
20°	6242	6144	6099
25°	6125	5995	5931
30°	5989	5819	5732
35°	5809	5625	5502
40°	5626	5396	5276
45°	5425	5165	5040
50°	5205	4912	4755
55°	4978	4678	4481
60°	4721	4394	4218
65°	4455	4117	3938
70°	4143	3837	3788
75°	3725	3548	3289
80°	3284	3067	2825
85°	2646	2646	2597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	3.8
10°-20°	635.2	10.7
20°-30°	931.5	15.7
30°-40°	1073.0	18.1
40°-50°	1052.9	17.8
50°-60°	895.8	15.1
60°-70°	647.7	10.9
70°-80°	361.9	6.1
80°-90°	100.8	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°	1792.5	30.3
0°-40°	2865.5	48.4
0°-60°	4814.1	81.3
0°-90°	5924.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5924.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2395	2395	2395	2395	2395	
5°	2382	2382	2374	2382	2384	226
15°	2275	2267	2250	2247	2242	641
25°	2063	2046	2019	2004	1997	950
35°	1768	1745	1712	1686	1675	1106
45°	1426	1398	1357	1331	1324	1099
55°	1061	1033	997	969	955	948
65°	700	681	647	622	618	693
75°	358	354	341	321	316	384
85°	86	90	86	84	84	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2391.6	2391.6	2386.9	2396.3	2397.8
5°	2382.2	2382.2	2374.4	2382.2	2383.8
7.5°	2366.7	2363.5	2354.2	2360.4	2360.4
10°	2341.7	2338.6	2327.7	2329.3	2330.8
12.5°	2310.6	2305.9	2291.9	2290.3	2288.8
15°	2274.7	2266.9	2249.8	2246.7	2242.0
17.5°	2231.1	2220.2	2199.9	2195.3	2192.2
20°	2179.7	2165.7	2145.4	2134.5	2129.8
22.5°	2123.6	2108.0	2083.1	2072.2	2066.0
25°	2062.8	2045.7	2019.2	2003.6	1997.4
27.5°	1995.8	1977.1	1949.1	1928.8	1921.1
30°	1927.3	1903.9	1872.8	1852.5	1844.7
32.5°	1849.4	1824.5	1794.9	1769.9	1759.0
35°	1768.4	1745.0	1712.3	1685.8	1674.9
37.5°	1685.8	1664.0	1625.0	1601.7	1593.9
40°	1601.7	1576.7	1536.2	1508.2	1501.9
42.5°	1512.9	1491.0	1445.9	1422.5	1411.6
45°	1425.6	1397.6	1357.1	1330.6	1324.3
47.5°	1336.8	1305.6	1269.8	1240.2	1232.4
50°	1243.3	1215.3	1173.2	1146.7	1135.8
52.5°	1151.4	1126.5	1084.4	1054.8	1047.0
55°	1061.0	1033.0	997.1	969.1	955.1
57.5°	966.0	944.2	906.8	880.3	869.4
60°	877.2	852.2	816.4	794.6	783.7
62.5°	786.8	761.9	732.3	708.9	699.6
65°	699.6	680.9	646.6	621.7	618.5
67.5°	612.3	596.7	567.1	542.2	543.8
70°	526.6	512.6	487.7	472.1	481.4
72.5°	445.6	437.8	409.8	398.9	403.5
75°	358.3	353.7	341.2	321.0	316.3
77.5°	285.1	288.2	274.2	249.3	243.1
80°	211.9	219.7	197.9	190.1	182.3
82.5°	146.5	157.4	138.7	132.4	129.3
85°	85.7	90.4	85.7	84.1	84.1
87.5°	35.8	42.1	42.1	43.6	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)