

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: P#

Luminaire Tested: 14D3X-LP-20-L850.ies

Issue Date: 2/27/2025

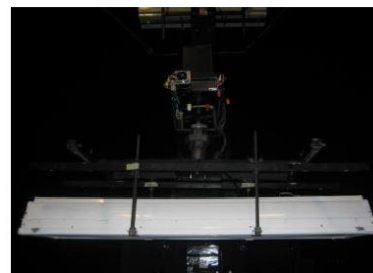
Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P601206)
Test Lab: INNOVATION CENTER
Issue Date: 2/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-20-L850.ies
Description: 1x4 D3X-LP AT 2000lm 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.7 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

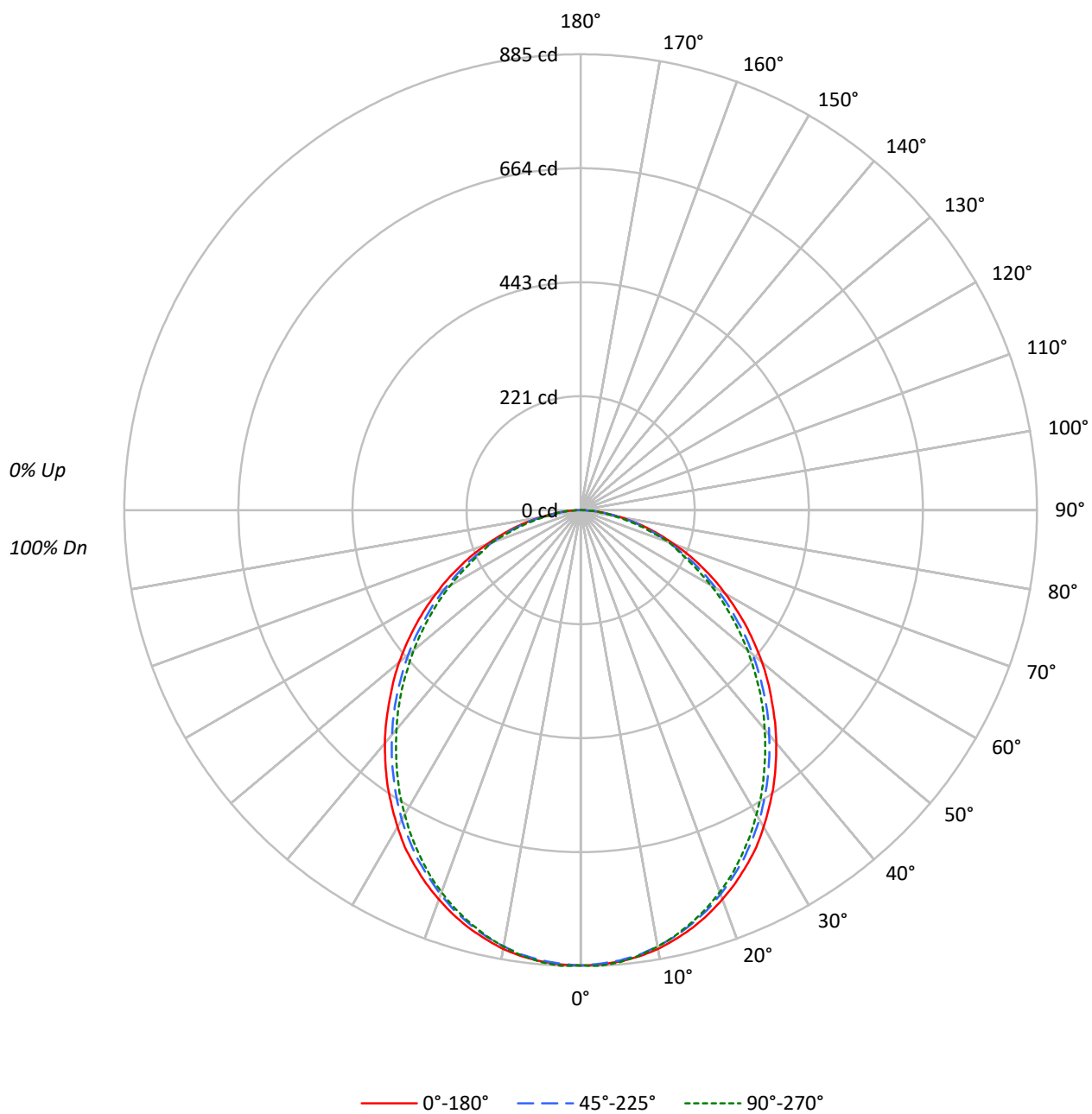
Input Watts (W): 22.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2378	2378	2378
5°	2375	2370	2379
10°	2364	2349	2351
15°	2337	2318	2310
20°	2302	2273	2260
25°	2260	2219	2195
30°	2206	2156	2119
35°	2144	2078	2038
40°	2074	1999	1951
45°	1995	1914	1864
50°	1923	1826	1768
55°	1836	1729	1668
60°	1739	1631	1568
65°	1640	1533	1463
70°	1516	1430	1445
75°	1396	1315	1248
80°	1216	1167	1046
85°	1022	960	960

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	3.8
10°-20°	234.8	10.7
20°-30°	344.6	15.7
30°-40°	396.9	18.1
40°-50°	389.6	17.8
50°-60°	332.2	15.1
60°-70°	240.3	10.9
70°-80°	135.1	6.2
80°-90°	37.8	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°	662.8	30.2
0°-40°	1059.7	48.3
0°-60°	1781.5	81.2
0°-90°	2194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	879	880	877	880	881	83
15°	839	838	832	831	829	236
25°	761	755	748	742	739	350
35°	653	645	633	624	620	408
45°	524	518	503	493	490	405
55°	391	383	369	360	356	350
65°	258	250	241	232	230	256
75°	134	132	126	121	120	142
85°	33	34	31	31	31	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.8	883.8	883.8	883.8	883.8
2.5°	882.5	883.2	881.2	884.5	885.1
5°	879.3	879.9	877.3	879.9	880.6
7.5°	873.4	873.4	870.2	872.1	872.1
10°	865.0	863.7	859.8	860.4	860.4
12.5°	852.7	852.7	847.5	847.5	846.2
15°	839.0	837.7	831.9	830.6	829.3
17.5°	822.8	820.9	814.4	811.8	810.5
20°	804.0	800.7	793.6	790.4	789.1
22.5°	783.9	779.3	770.9	767.0	765.7
25°	761.2	755.3	747.5	741.7	739.1
27.5°	737.8	732.0	720.9	714.4	711.8
30°	709.9	704.1	693.7	685.9	682.0
32.5°	681.3	676.2	663.8	655.4	652.8
35°	652.8	645.0	632.7	624.2	620.4
37.5°	621.6	615.2	601.5	592.4	587.9
40°	590.5	584.0	569.1	559.4	555.5
42.5°	558.1	549.6	536.6	526.3	523.0
45°	524.3	517.8	502.9	493.2	489.9
47.5°	492.5	482.8	469.2	459.4	454.9
50°	459.4	450.3	436.1	425.7	422.4
52.5°	425.0	417.2	403.0	392.6	388.7
55°	391.3	382.9	368.6	359.5	355.6
57.5°	357.5	349.8	336.8	326.4	323.8
60°	323.2	316.0	303.0	294.6	291.4
62.5°	291.4	282.9	271.2	262.8	259.6
65°	257.6	250.5	240.7	231.7	229.7
67.5°	226.5	221.3	208.9	202.5	203.1
70°	192.7	192.7	181.7	175.2	183.6
72.5°	162.9	163.5	153.8	149.9	146.7
75°	134.3	131.7	126.5	121.3	120.0
77.5°	105.8	107.1	102.5	92.8	91.5
80°	78.5	85.7	75.3	68.8	67.5
82.5°	53.9	61.0	51.9	48.7	48.0
85°	33.1	34.4	31.1	31.1	31.1
87.5°	14.3	16.2	15.6	15.6	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)