

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-L840.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-L840.ies
Description: 1x4 D3X-LP AT 2000lm 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

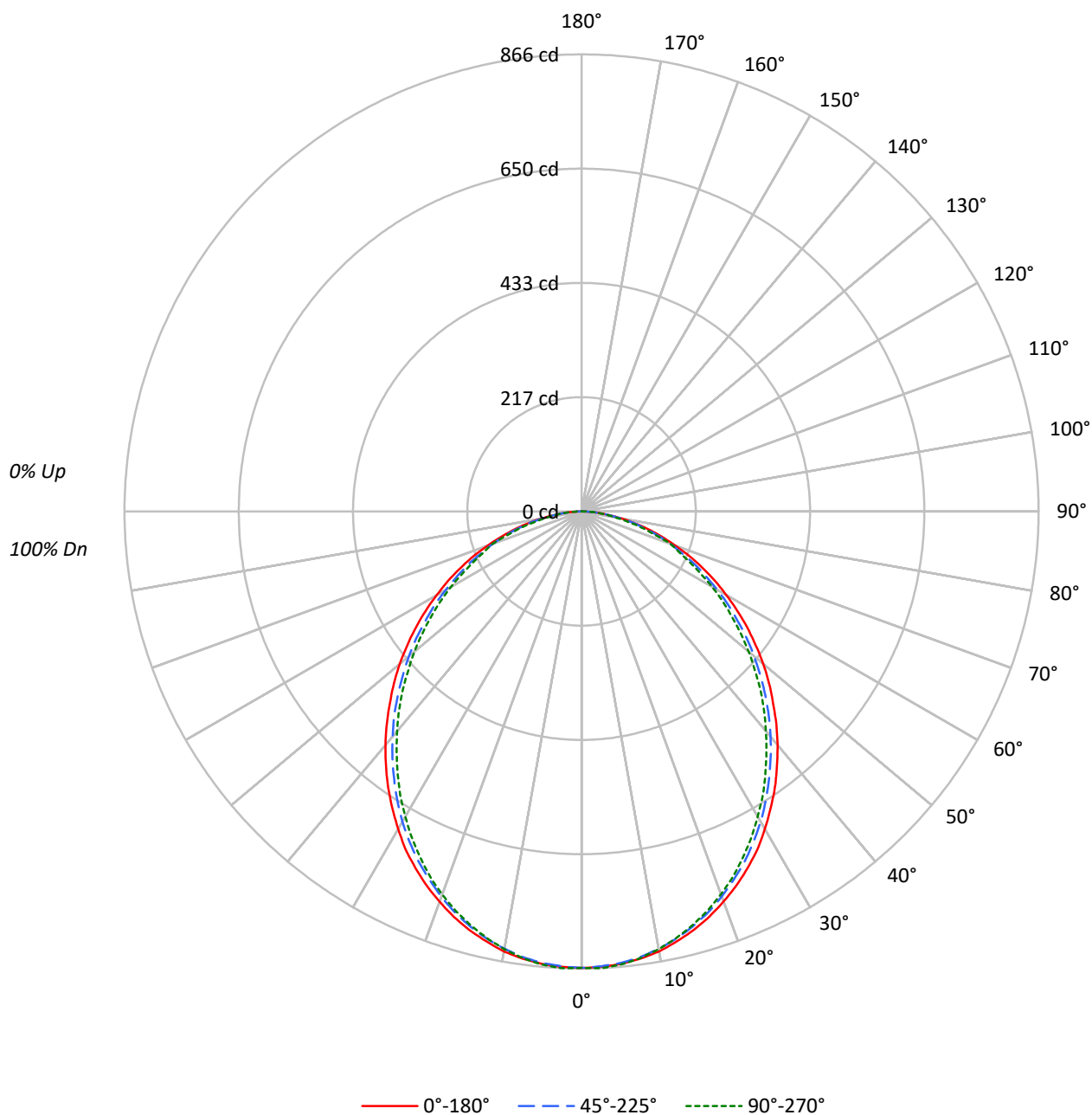
Lumens per Lamp: N/A
Luminaire Lumens: 2148.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2328	2328	2328
5°	2325	2320	2328
10°	2313	2299	2301
15°	2288	2268	2261
20°	2253	2224	2212
25°	2212	2172	2148
30°	2159	2110	2074
35°	2099	2034	1995
40°	2030	1957	1910
45°	1953	1873	1825
50°	1882	1787	1731
55°	1797	1692	1633
60°	1702	1596	1535
65°	1605	1500	1431
70°	1484	1399	1414
75°	1367	1287	1222
80°	1190	1142	1024
85°	1000	942	942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1953 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.8
10°-20°	229.8	10.7
20°-30°	337.3	15.7
30°-40°	388.5	18.1
40°-50°	381.3	17.8
50°-60°	325.1	15.1
60°-70°	235.2	10.9
70°-80°	132.2	6.2
80°-90°	37.0	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°	648.7	30.2
0°-40°	1037.2	48.3
0°-60°	1743.6	81.2
0°-90°	2148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	861	861	859	861	862	82
15°	821	820	814	813	812	231
25°	745	739	732	726	723	343
35°	639	631	619	611	607	399
45°	513	507	492	483	480	397
55°	383	375	361	352	348	342
65°	252	245	236	227	225	250
75°	132	129	124	119	118	139
85°	32	34	30	30	30	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.0	865.0	865.0	865.0	865.0
2.5°	863.7	864.4	862.5	865.6	866.3
5°	860.6	861.2	858.7	861.2	861.8
7.5°	854.8	854.8	851.7	853.6	853.6
10°	846.6	845.3	841.5	842.1	842.1
12.5°	834.5	834.5	829.4	829.4	828.2
15°	821.2	819.9	814.2	812.9	811.7
17.5°	805.3	803.4	797.0	794.5	793.2
20°	786.9	783.7	776.7	773.5	772.3
22.5°	767.2	762.8	754.5	750.7	749.4
25°	745.0	739.3	731.6	725.9	723.4
27.5°	722.1	716.4	705.6	699.2	696.7
30°	694.8	689.1	678.9	671.3	667.5
32.5°	666.9	661.8	649.7	641.4	638.9
35°	638.9	631.3	619.2	611.0	607.2
37.5°	608.4	602.1	588.7	579.8	575.4
40°	577.9	571.6	557.0	547.5	543.6
42.5°	546.2	537.9	525.2	515.1	511.9
45°	513.2	506.8	492.2	482.7	479.5
47.5°	482.0	472.5	459.2	449.6	445.2
50°	449.6	440.8	426.8	416.6	413.4
52.5°	416.0	408.4	394.4	384.2	380.4
55°	383.0	374.7	360.7	351.8	348.0
57.5°	349.9	342.3	329.6	319.5	316.9
60°	316.3	309.3	296.6	288.3	285.2
62.5°	285.2	276.9	265.5	257.2	254.0
65°	252.1	245.1	235.6	226.7	224.8
67.5°	221.6	216.6	204.5	198.2	198.8
70°	188.6	188.6	177.8	171.5	179.7
72.5°	159.4	160.0	150.5	146.7	143.5
75°	131.5	128.9	123.8	118.8	117.5
77.5°	103.5	104.8	100.3	90.8	89.5
80°	76.8	83.8	73.7	67.3	66.1
82.5°	52.7	59.7	50.8	47.6	47.0
85°	32.4	33.7	30.5	30.5	30.5
87.5°	14.0	15.9	15.2	15.2	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)