

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: P601252

Luminaire Tested: 14D3X-LP-55-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601252
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-55-L830
Description: 1x4 D3X-LP AT 5500lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

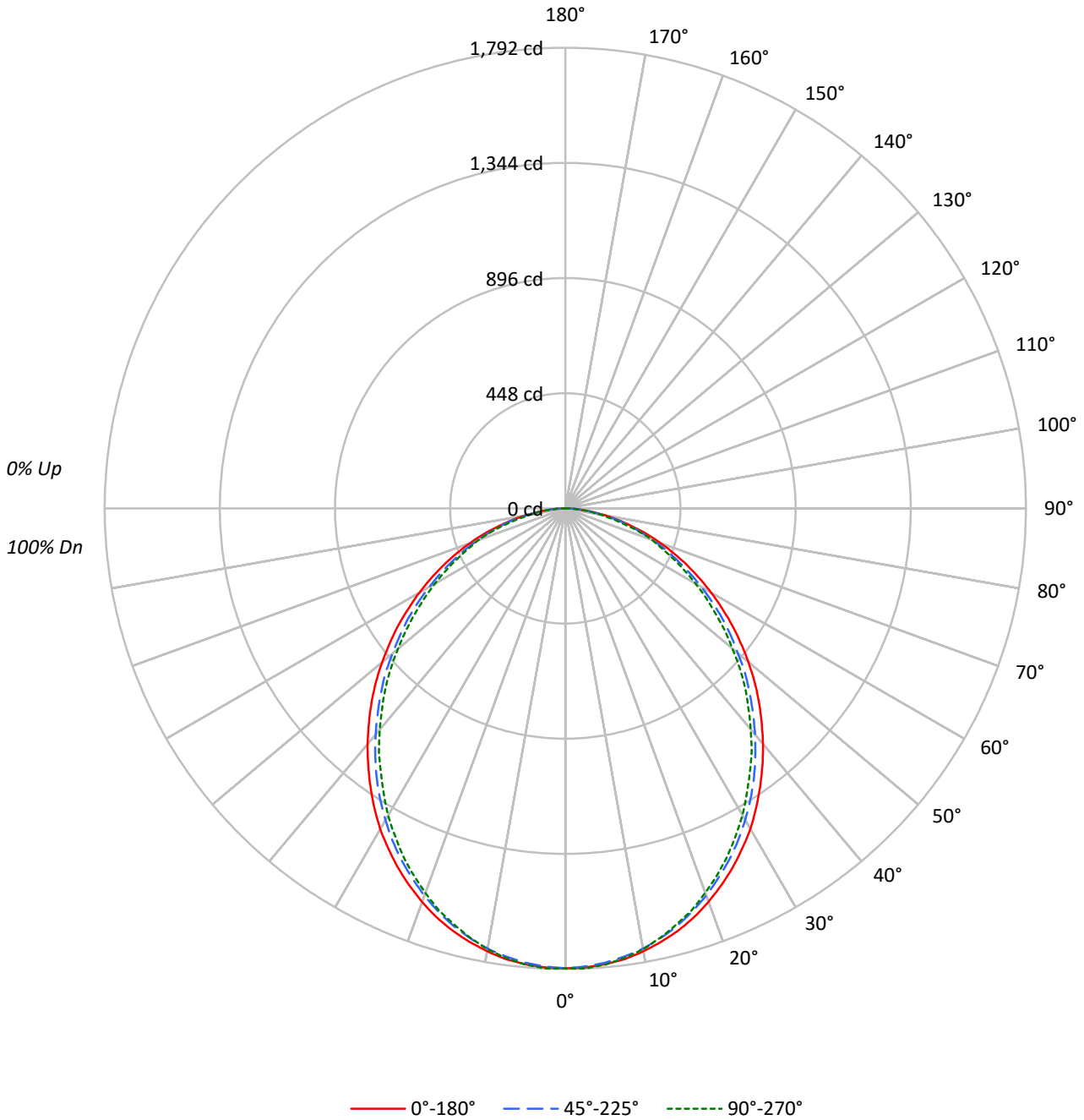
Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54.1
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°	4815	4815	4815
5°	4809	4793	4812
10°	4781	4753	4759
15°	4735	4683	4667
20°	4664	4591	4558
25°	4577	4480	4431
30°	4475	4348	4283
35°	4341	4203	4111
40°	4204	4032	3942
45°	4054	3859	3766
50°	3890	3670	3553
55°	3719	3496	3348
60°	3528	3284	3152
65°	3328	3077	2943
70°	3096	2867	2830
75°	2784	2651	2457
80°	2453	2292	2111
85°	1976	1976	1942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4054 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.8
10°-20°	474.7	10.7
20°-30°	696.1	15.7
30°-40°	801.8	18.1
40°-50°	786.7	17.8
50°-60°	669.4	15.1
60°-70°	484.0	10.9
70°-80°	270.4	6.1
80°-90°	75.3	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°	1339.4	30.3
0°-40°	2141.2	48.4
0°-60°	3597.3	81.3
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1780	1780	1774	1780	1781	169
15°	1700	1694	1681	1679	1675	479
25°	1541	1529	1509	1497	1492	710
35°	1321	1304	1280	1260	1252	826
45°	1065	1044	1014	994	990	822
55°	793	772	745	724	714	708
65°	523	509	483	464	462	518
75°	268	264	255	240	236	287
85°	64	68	64	63	63	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.4	1789.4	1789.4	1789.4	1789.4
2.5°	1787.1	1787.1	1783.6	1790.6	1791.7
5°	1780.1	1780.1	1774.3	1780.1	1781.3
7.5°	1768.5	1766.1	1759.1	1763.8	1763.8
10°	1749.8	1747.5	1739.4	1740.5	1741.7
12.5°	1726.5	1723.1	1712.6	1711.4	1710.2
15°	1699.8	1693.9	1681.1	1678.8	1675.3
17.5°	1667.2	1659.0	1643.9	1640.4	1638.1
20°	1628.8	1618.3	1603.1	1595.0	1591.5
22.5°	1586.8	1575.2	1556.6	1548.4	1543.8
25°	1541.4	1528.6	1508.8	1497.2	1492.5
27.5°	1491.4	1477.4	1456.4	1441.3	1435.5
30°	1440.1	1422.7	1399.4	1384.3	1378.4
32.5°	1381.9	1363.3	1341.2	1322.6	1314.4
35°	1321.4	1303.9	1279.5	1259.7	1251.5
37.5°	1259.7	1243.4	1214.3	1196.8	1191.0
40°	1196.8	1178.2	1147.9	1127.0	1122.3
42.5°	1130.5	1114.2	1080.4	1062.9	1054.8
45°	1065.3	1044.3	1014.0	994.2	989.6
47.5°	998.9	975.6	948.8	926.7	920.9
50°	929.1	908.1	876.7	856.9	848.7
52.5°	860.4	841.7	810.3	788.2	782.4
55°	792.8	771.9	745.1	724.1	713.7
57.5°	721.8	705.5	677.6	657.8	649.6
60°	655.5	636.8	610.1	593.8	585.6
62.5°	587.9	569.3	547.2	529.7	522.7
65°	522.7	508.8	483.2	464.5	462.2
67.5°	457.5	445.9	423.8	405.2	406.3
70°	393.5	383.0	364.4	352.8	359.7
72.5°	333.0	327.1	306.2	298.0	301.5
75°	267.8	264.3	255.0	239.8	236.3
77.5°	213.1	215.4	204.9	186.3	181.6
80°	158.3	164.2	147.9	142.0	136.2
82.5°	109.4	117.6	103.6	99.0	96.6
85°	64.0	67.5	64.0	62.9	62.9
87.5°	26.8	31.4	31.4	32.6	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)