

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: P601264

Luminaire Tested: 14D3X-LP-70-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601264
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-L830
Description: 1x4 D3X-LP AT 7000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

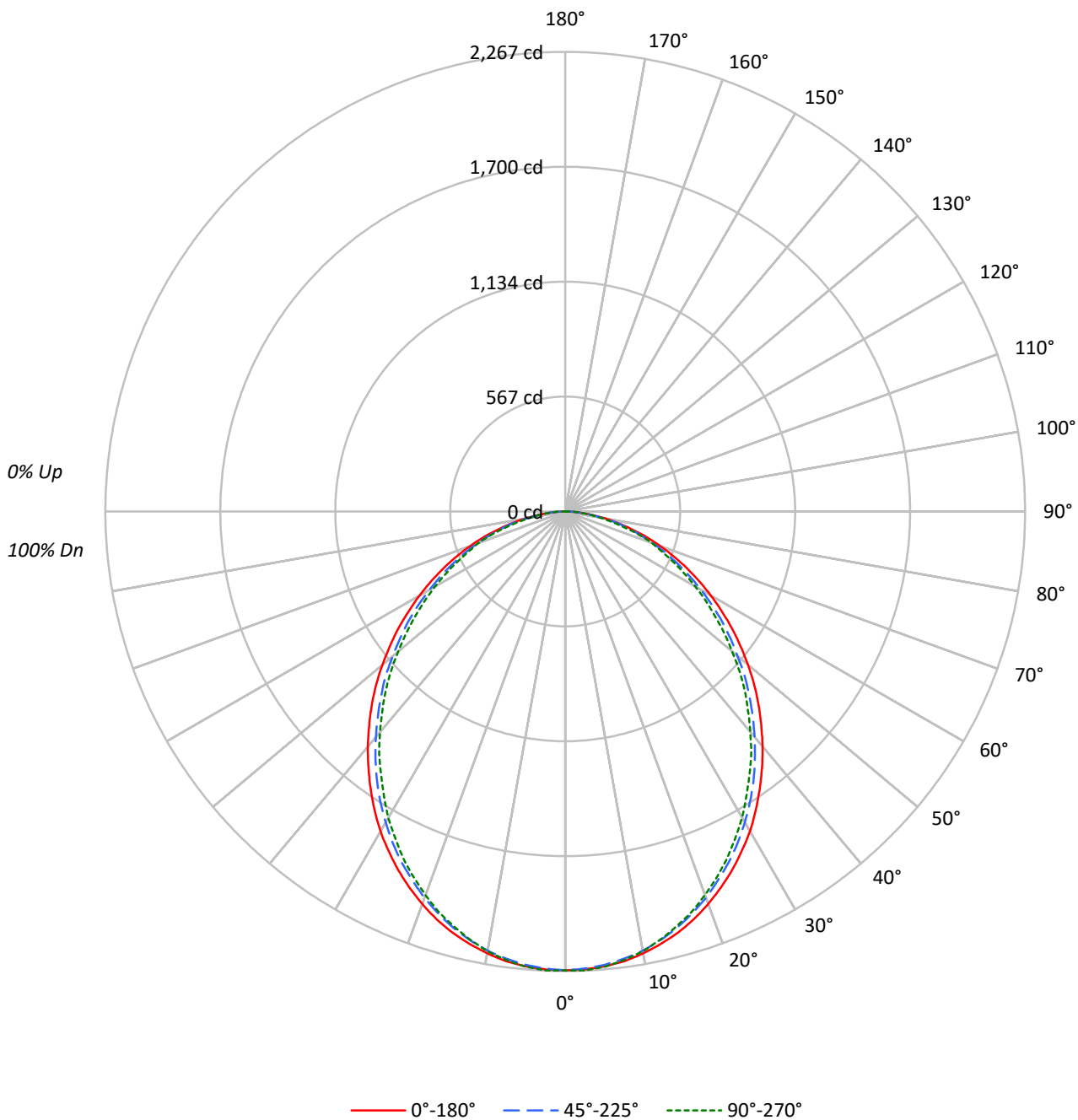
Lumens per Lamp: N/A
Luminaire Lumens: 5600.2 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	6091	6091	6091
5°	6083	6063	6087
10°	6049	6012	6020
15°	5990	5925	5904
20°	5900	5808	5765
25°	5790	5667	5606
30°	5661	5501	5418
35°	5491	5317	5201
40°	5318	5101	4988
45°	5128	4882	4764
50°	4920	4643	4495
55°	4706	4422	4236
60°	4463	4153	3987
65°	4211	3892	3723
70°	3917	3627	3581
75°	3522	3353	3109
80°	3104	2898	2670
85°	2501	2501	2455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5128 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.8
10°-20°	600.5	10.7
20°-30°	880.6	15.7
30°-40°	1014.3	18.1
40°-50°	995.2	17.8
50°-60°	846.8	15.1
60°-70°	612.2	10.9
70°-80°	342.1	6.1
80°-90°	95.3	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°	1694.4	30.3
0°-40°	2708.6	48.4
0°-60°	4550.6	81.3
0°-90°	5600.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5600.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2252	2252	2244	2252	2253	214
15°	2150	2143	2127	2124	2119	606
25°	1950	1934	1909	1894	1888	898
35°	1672	1650	1619	1594	1583	1046
45°	1348	1321	1283	1258	1252	1039
55°	1003	976	943	916	903	896
65°	661	644	611	588	585	655
75°	339	334	322	303	299	363
85°	81	85	81	80	80	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.6	2263.6	2263.6	2263.6	2263.6
2.5°	2260.7	2260.7	2256.3	2265.1	2266.6
5°	2251.9	2251.9	2244.5	2251.9	2253.3
7.5°	2237.1	2234.2	2225.4	2231.2	2231.2
10°	2213.6	2210.6	2200.3	2201.8	2203.3
12.5°	2184.1	2179.7	2166.4	2165.0	2163.5
15°	2150.2	2142.9	2126.7	2123.7	2119.3
17.5°	2109.0	2098.7	2079.6	2075.1	2072.2
20°	2060.4	2047.2	2028.0	2017.7	2013.3
22.5°	2007.4	1992.7	1969.1	1958.8	1952.9
25°	1949.9	1933.7	1908.7	1894.0	1888.1
27.5°	1886.6	1868.9	1842.4	1823.3	1815.9
30°	1821.8	1799.7	1770.3	1751.1	1743.8
32.5°	1748.2	1724.6	1696.6	1673.1	1662.8
35°	1671.6	1649.5	1618.6	1593.5	1583.2
37.5°	1593.5	1572.9	1536.1	1514.0	1506.6
40°	1514.0	1490.4	1452.2	1425.6	1419.8
42.5°	1430.1	1409.4	1366.7	1344.6	1334.3
45°	1347.6	1321.1	1282.8	1257.7	1251.9
47.5°	1263.6	1234.2	1200.3	1172.3	1165.0
50°	1175.3	1148.8	1109.0	1084.0	1073.7
52.5°	1088.4	1064.8	1025.0	997.1	989.7
55°	1003.0	976.4	942.6	916.1	902.8
57.5°	913.1	892.5	857.2	832.1	821.8
60°	829.2	805.6	771.7	751.1	740.8
62.5°	743.7	720.2	692.2	670.1	661.3
65°	661.3	643.6	611.2	587.6	584.7
67.5°	578.8	564.1	536.1	512.5	514.0
70°	497.8	484.5	461.0	446.2	455.1
72.5°	421.2	413.8	387.3	377.0	381.4
75°	338.7	334.3	322.5	303.4	299.0
77.5°	269.5	272.5	259.2	235.6	229.8
80°	200.3	207.7	187.0	179.7	172.3
82.5°	138.4	148.7	131.1	125.2	122.2
85°	81.0	85.4	81.0	79.5	79.5
87.5°	33.9	39.8	39.8	41.2	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)