

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P258447

Luminaire Tested: **D3X-WG-55L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4877.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

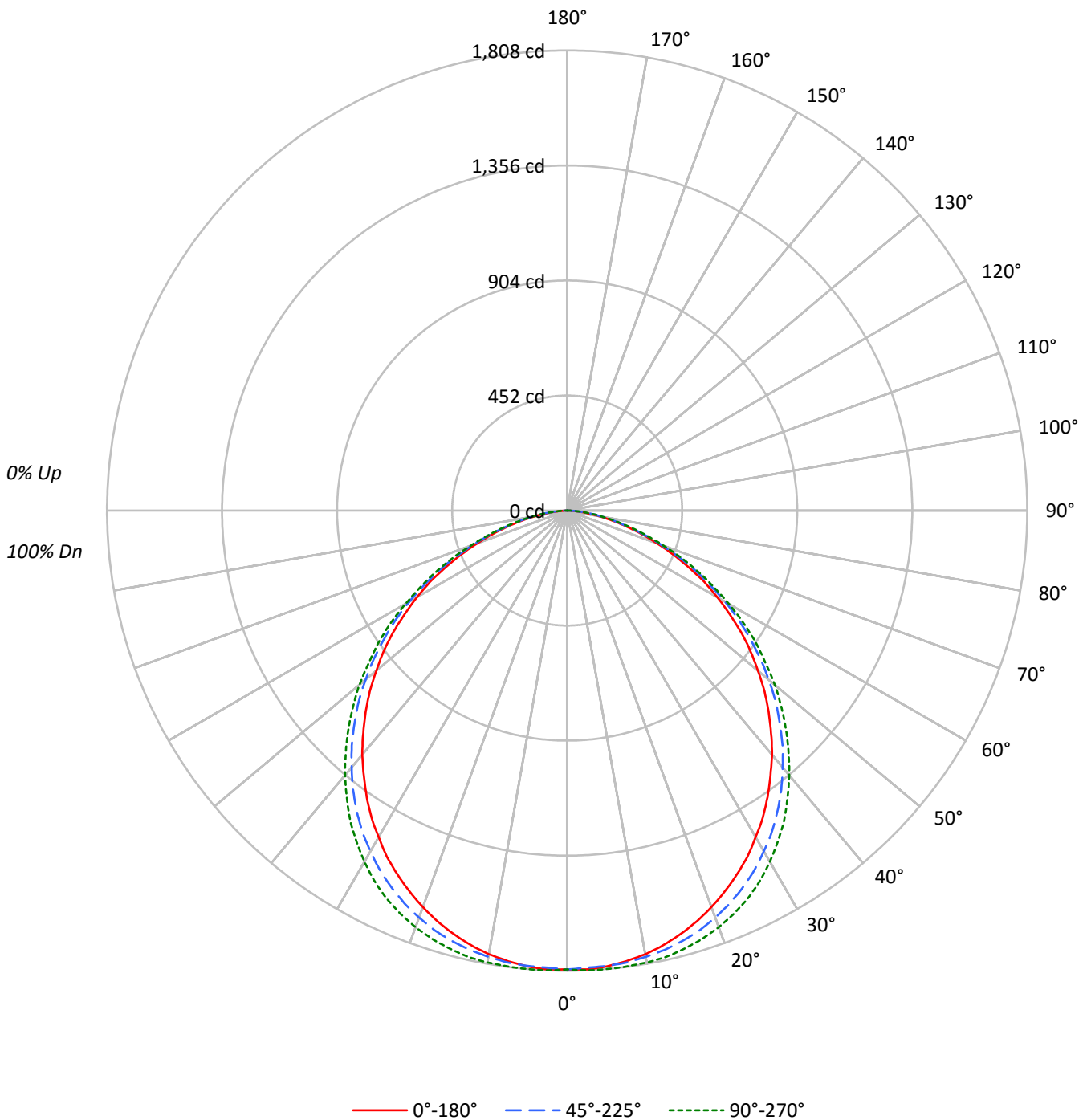
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2426	2426	2426
5°	2428	2426	2442
10°	2418	2432	2463
15°	2400	2439	2482
20°	2374	2437	2494
25°	2342	2425	2495
30°	2302	2402	2475
35°	2256	2367	2442
40°	2200	2314	2384
45°	2131	2247	2314
50°	2048	2165	2231
55°	1959	2057	2123
60°	1834	1928	1975
65°	1674	1763	1808
70°	1471	1546	1588
75°	1244	1308	1353
80°	988	1083	1110
85°	675	809	783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	3.5
10°-20°	494.6	10.1
20°-30°	751.6	15.4
30°-40°	896.9	18.4
40°-50°	905.8	18.6
50°-60°	780.4	16.0
60°-70°	544.0	11.2
70°-80°	269.6	5.5
80°-90°	62.9	1.3
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°	1417.5	29.1
0°-40°	2314.4	47.5
0°-60°	4000.7	82.0
0°-90°	4877.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1798	1796	1796	1805	1808	171
15°	1723	1731	1751	1773	1782	486
25°	1578	1599	1634	1667	1681	727
35°	1373	1396	1441	1474	1487	858
45°	1120	1144	1181	1209	1216	863
55°	835	853	877	898	905	744
65°	526	536	554	559	568	522
75°	239	243	252	257	260	258
85°	44	52	52	49	51	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1803.0	1803.0	1803.0	1803.0	1803.0
2.5°	1804.7	1801.2	1797.7	1804.7	1808.2
5°	1797.7	1796.0	1796.0	1804.7	1808.2
7.5°	1785.5	1785.5	1790.8	1803.0	1806.5
10°	1769.8	1773.3	1780.3	1797.7	1803.0
12.5°	1748.8	1755.8	1768.0	1789.0	1796.0
15°	1722.6	1731.4	1750.6	1773.3	1782.0
17.5°	1692.9	1705.1	1729.6	1755.8	1764.5
20°	1658.0	1673.7	1701.7	1731.4	1741.8
22.5°	1619.5	1638.8	1670.2	1701.7	1713.9
25°	1577.6	1598.6	1633.5	1666.7	1680.7
27.5°	1533.9	1554.9	1593.3	1626.5	1640.5
30°	1481.5	1506.0	1546.2	1581.1	1593.3
32.5°	1430.9	1455.3	1497.2	1528.7	1540.9
35°	1373.2	1395.9	1441.3	1474.5	1486.8
37.5°	1312.1	1338.3	1381.9	1411.6	1422.1
40°	1252.7	1275.4	1317.3	1347.0	1357.5
42.5°	1186.3	1210.7	1252.7	1278.9	1287.6
45°	1119.9	1144.3	1181.0	1209.0	1216.0
47.5°	1051.7	1074.5	1111.1	1133.9	1140.8
50°	978.4	999.3	1034.3	1057.0	1065.7
52.5°	908.5	927.7	957.4	976.6	981.9
55°	835.1	852.6	877.0	898.0	905.0
57.5°	756.5	775.7	798.4	815.9	821.1
60°	681.4	697.1	716.3	732.0	733.8
62.5°	608.0	615.0	632.4	646.4	648.2
65°	525.9	536.4	553.8	559.1	567.8
67.5°	450.7	457.7	471.7	478.7	485.7
70°	373.9	379.1	393.1	401.8	403.6
72.5°	307.5	309.2	319.7	326.7	328.5
75°	239.3	242.8	251.6	256.8	260.3
77.5°	181.7	185.2	192.2	195.7	195.7
80°	127.5	132.8	139.8	141.5	143.3
82.5°	82.1	89.1	94.3	96.1	92.6
85°	43.7	52.4	52.4	48.9	50.7
87.5°	15.7	19.2	21.0	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)