

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: P258429

Luminaire Tested: **D3X-WG-42L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258429
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-42L830-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: 3695.4 lumens
Efficiency: N/A
Efficacy: 118.4 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

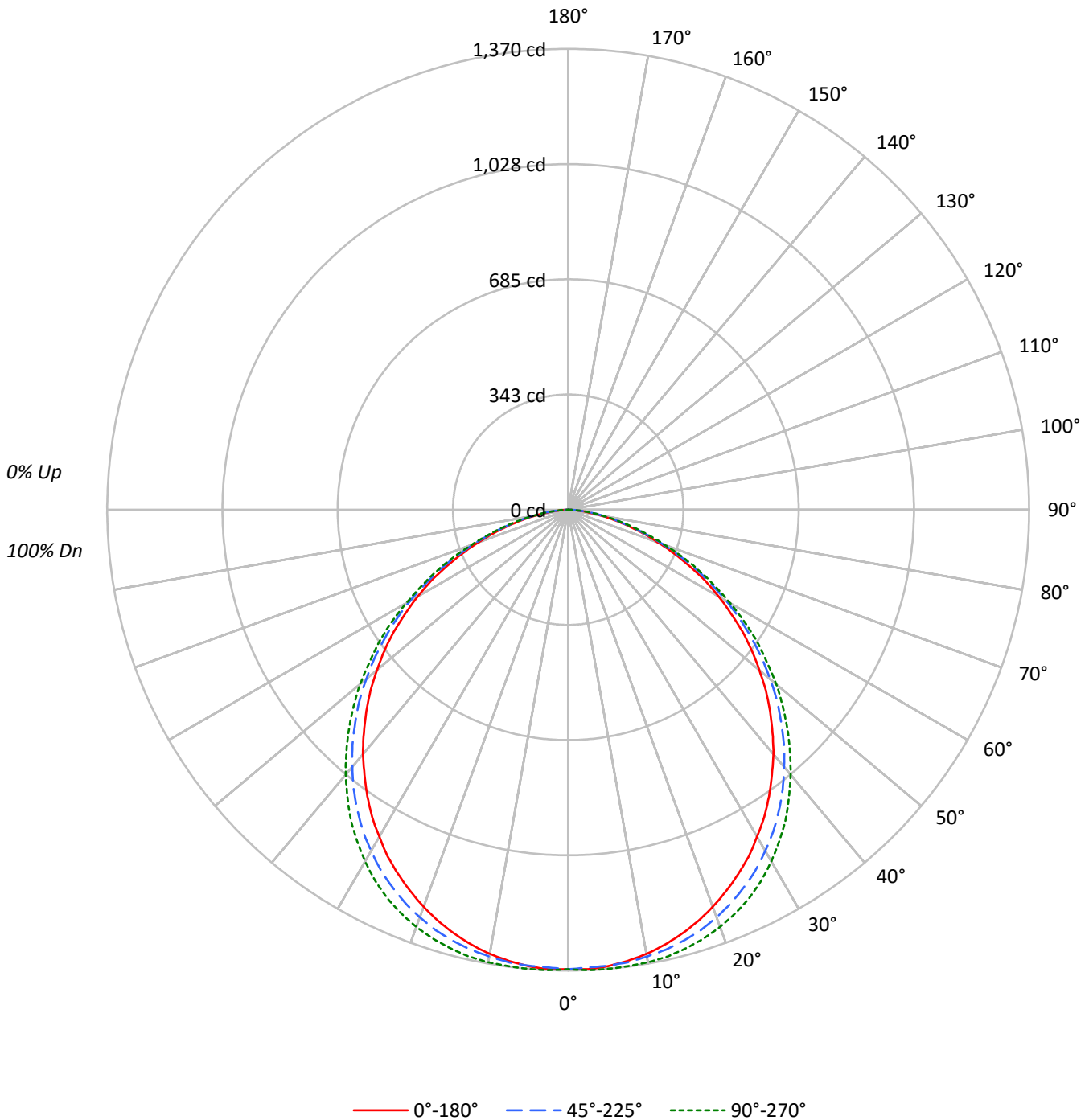
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1838	1838	1838
5°	1840	1838	1850
10°	1832	1843	1866
15°	1818	1848	1881
20°	1799	1846	1890
25°	1775	1837	1890
30°	1744	1820	1876
35°	1709	1794	1850
40°	1667	1753	1806
45°	1615	1703	1753
50°	1552	1640	1690
55°	1484	1559	1609
60°	1389	1460	1496
65°	1268	1336	1370
70°	1114	1172	1203
75°	943	991	1025
80°	748	821	841
85°	511	613	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.5
10°-20°	374.7	10.1
20°-30°	569.5	15.4
30°-40°	679.6	18.4
40°-50°	686.3	18.6
50°-60°	591.3	16.0
60°-70°	412.2	11.2
70°-80°	204.3	5.5
80°-90°	47.6	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°	1074.0	29.1
0°-40°	1753.6	47.5
0°-60°	3031.2	82.0
0°-90°	3695.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1362	1361	1361	1367	1370	129
15°	1305	1312	1326	1344	1350	368
25°	1195	1211	1238	1263	1273	551
35°	1040	1058	1092	1117	1126	650
45°	848	867	895	916	921	654
55°	633	646	664	680	686	564
65°	398	406	420	424	430	396
75°	181	184	191	195	197	196
85°	33	40	40	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1367.4	1364.8	1362.1	1367.4	1370.1
5°	1362.1	1360.8	1360.8	1367.4	1370.1
7.5°	1352.9	1352.9	1356.8	1366.1	1368.7
10°	1340.9	1343.6	1348.9	1362.1	1366.1
12.5°	1325.1	1330.4	1339.6	1355.5	1360.8
15°	1305.2	1311.8	1326.4	1343.6	1350.2
17.5°	1282.7	1292.0	1310.5	1330.4	1337.0
20°	1256.2	1268.1	1289.3	1311.8	1319.8
22.5°	1227.1	1241.7	1265.5	1289.3	1298.6
25°	1195.3	1211.2	1237.7	1262.8	1273.4
27.5°	1162.2	1178.1	1207.2	1232.4	1243.0
30°	1122.5	1141.1	1171.5	1198.0	1207.2
32.5°	1084.1	1102.7	1134.4	1158.3	1167.5
35°	1040.5	1057.7	1092.1	1117.2	1126.5
37.5°	994.1	1014.0	1047.1	1069.6	1077.5
40°	949.1	966.3	998.1	1020.6	1028.5
42.5°	898.8	917.3	949.1	969.0	975.6
45°	848.5	867.0	894.8	916.0	921.3
47.5°	796.9	814.1	841.9	859.1	864.4
50°	741.3	757.2	783.7	800.9	807.5
52.5°	688.3	702.9	725.4	740.0	743.9
55°	632.7	646.0	664.5	680.4	685.7
57.5°	573.2	587.7	604.9	618.2	622.2
60°	516.3	528.2	542.7	554.6	556.0
62.5°	460.7	466.0	479.2	489.8	491.1
65°	398.4	406.4	419.6	423.6	430.2
67.5°	341.5	346.8	357.4	362.7	368.0
70°	283.3	287.3	297.8	304.5	305.8
72.5°	233.0	234.3	242.2	247.5	248.9
75°	181.4	184.0	190.6	194.6	197.2
77.5°	137.7	140.3	145.6	148.3	148.3
80°	96.6	100.6	105.9	107.2	108.5
82.5°	62.2	67.5	71.5	72.8	70.2
85°	33.1	39.7	39.7	37.1	38.4
87.5°	11.9	14.6	15.9	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)