

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: P258488

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-42L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3929.6 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

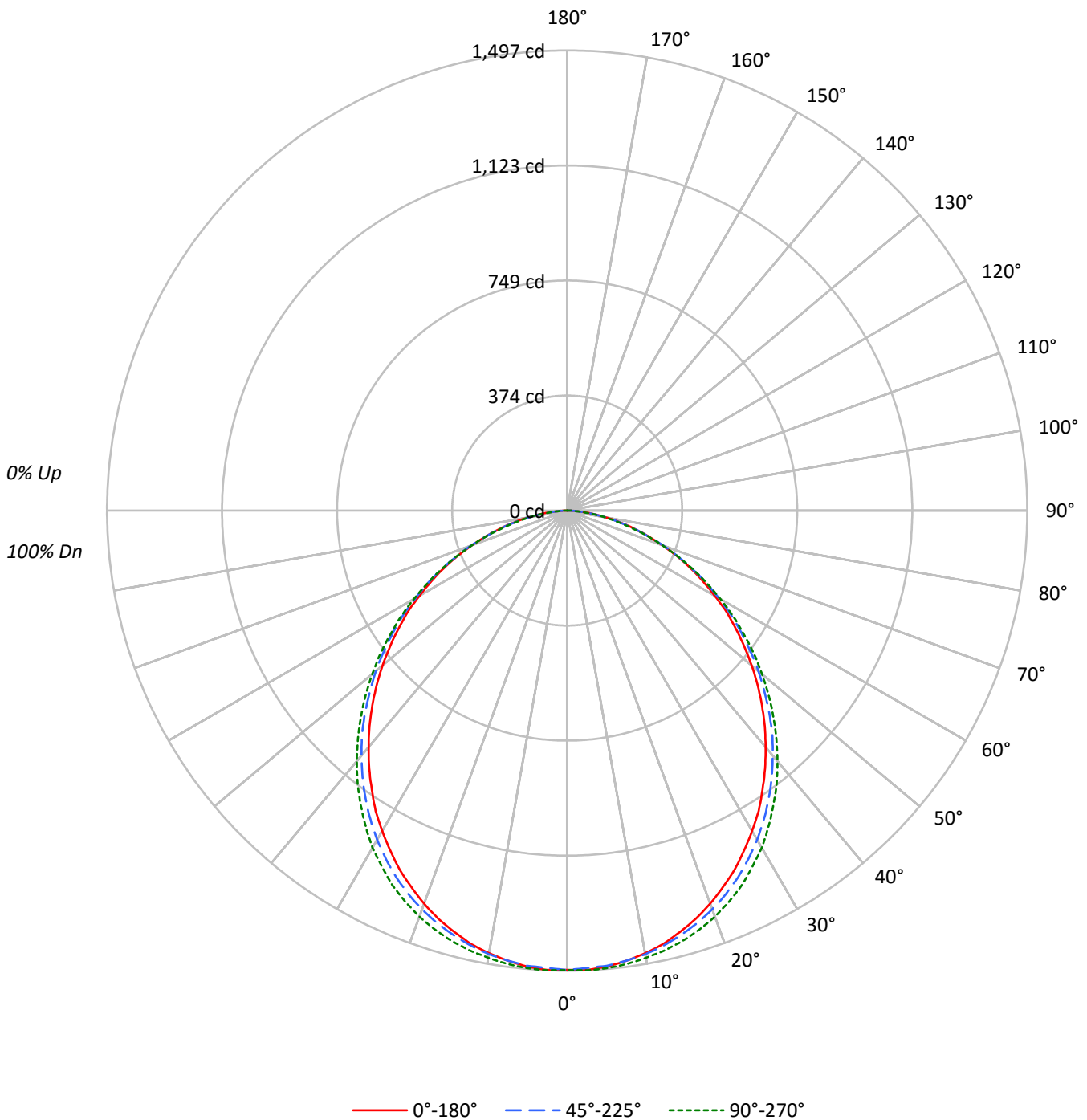
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2011	2011	2011
5°	2011	2008	2019
10°	1998	2002	2018
15°	1977	1991	2019
20°	1948	1977	2013
25°	1914	1953	1997
30°	1869	1921	1968
35°	1820	1879	1922
40°	1765	1828	1869
45°	1705	1768	1806
50°	1640	1701	1732
55°	1571	1621	1646
60°	1492	1532	1549
65°	1408	1429	1437
70°	1292	1307	1292
75°	1163	1156	1122
80°	985	975	944
85°	736	715	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.6
10°-20°	404.2	10.3
20°-30°	606.1	15.4
30°-40°	713.7	18.2
40°-50°	713.9	18.2
50°-60°	615.9	15.7
60°-70°	443.2	11.3
70°-80°	235.1	6.0
80°-90°	56.1	1.4
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°	1151.8	29.3
0°-40°	1865.5	47.5
0°-60°	3195.3	81.3
0°-90°	3929.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1489	1488	1487	1492	1494	141
15°	1419	1423	1430	1444	1450	400
25°	1289	1297	1316	1338	1345	593
35°	1108	1121	1144	1164	1170	693
45°	896	908	929	945	949	691
55°	670	676	691	703	702	599
65°	442	444	449	451	451	437
75°	224	221	222	217	216	238
85°	48	48	46	42	41	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.5	1494.5	1494.5	1494.5	1494.5
2.5°	1495.8	1493.2	1489.2	1494.5	1497.1
5°	1489.2	1487.9	1486.6	1491.8	1494.5
7.5°	1477.3	1478.6	1477.3	1485.2	1487.9
10°	1462.7	1464.0	1465.4	1474.6	1477.3
12.5°	1444.2	1445.5	1449.5	1461.4	1465.4
15°	1419.0	1423.0	1429.6	1444.2	1449.5
17.5°	1392.6	1397.9	1407.1	1424.3	1429.6
20°	1360.8	1367.4	1380.7	1399.2	1405.8
22.5°	1325.1	1331.7	1350.2	1370.1	1376.7
25°	1289.3	1297.3	1315.8	1338.3	1344.9
27.5°	1247.0	1257.5	1277.4	1299.9	1305.2
30°	1203.3	1212.5	1236.4	1257.5	1266.8
32.5°	1159.6	1168.9	1191.4	1212.5	1219.2
35°	1108.0	1121.2	1143.7	1163.6	1170.2
37.5°	1057.7	1069.6	1093.4	1113.3	1119.9
40°	1004.7	1015.3	1040.5	1059.0	1064.3
42.5°	951.8	962.4	987.5	1002.1	1007.4
45°	896.2	908.1	929.3	945.1	949.1
47.5°	840.6	849.8	869.7	884.3	889.5
50°	783.7	792.9	812.8	824.7	827.3
52.5°	726.7	733.3	751.9	762.5	766.4
55°	669.8	676.4	691.0	702.9	701.6
57.5°	615.5	618.2	632.7	640.7	640.7
60°	554.6	557.3	569.2	574.5	575.8
62.5°	497.7	501.7	511.0	512.3	512.3
65°	442.1	443.5	448.7	451.4	451.4
67.5°	386.5	385.2	390.5	390.5	389.2
70°	328.3	330.9	332.3	329.6	328.3
72.5°	275.3	274.0	274.0	272.7	272.7
75°	223.7	221.1	222.4	217.1	215.8
77.5°	176.1	172.1	170.8	168.1	165.5
80°	127.1	127.1	125.8	123.1	121.8
82.5°	84.7	84.7	83.4	80.7	78.1
85°	47.7	47.7	46.3	42.4	41.0
87.5°	15.9	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)