

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: P257546

Luminaire Tested: **D3X-WO-44L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-44L830-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4326.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

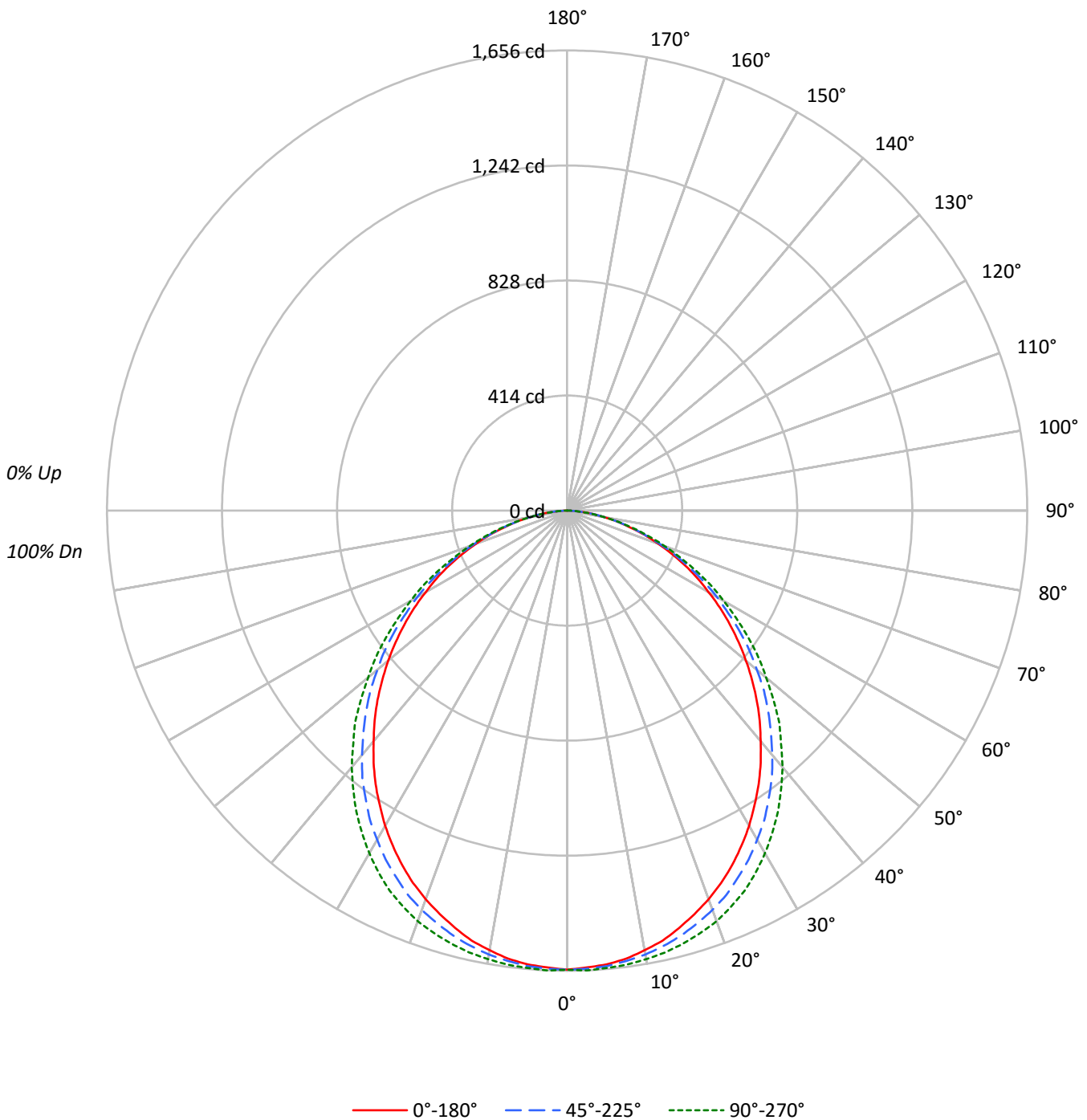
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	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	66	63	60
4	84	72	63	57	81	70	62	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	48	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4446	4446	4446
5°	4428	4445	4463
10°	4391	4432	4479
15°	4333	4411	4495
20°	4263	4380	4503
25°	4176	4324	4483
30°	4070	4250	4424
35°	3949	4154	4345
40°	3806	4033	4238
45°	3672	3894	4107
50°	3517	3733	3914
55°	3355	3557	3729
60°	3165	3350	3501
65°	2990	3100	3251
70°	2746	2830	2932
75°	2441	2509	2575
80°	2103	2070	2070
85°	1596	1463	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.6
10°-20°	446.7	10.3
20°-30°	670.7	15.5
30°-40°	789.4	18.2
40°-50°	787.4	18.2
50°-60°	675.7	15.6
60°-70°	483.9	11.2
70°-80°	256.3	5.9
80°-90°	59.9	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°	1273.8	29.4
0°-40°	2063.2	47.7
0°-60°	3526.2	81.5
0°-90°	4326.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4326.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1639	1639	1646	1650	1652	155
15°	1555	1562	1583	1605	1613	438
25°	1407	1420	1456	1493	1510	647
35°	1202	1217	1264	1308	1323	751
45°	965	980	1023	1060	1079	744
55°	715	726	758	784	795	639
65°	470	472	487	506	510	464
75°	235	235	241	246	248	252
85°	52	50	47	43	43	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.2	1652.2	1652.2	1652.2	1652.2
2.5°	1645.7	1645.7	1650.0	1654.3	1656.5
5°	1639.3	1639.3	1645.7	1650.0	1652.2
7.5°	1626.3	1626.3	1634.9	1643.6	1647.9
10°	1606.9	1611.3	1622.0	1634.9	1639.3
12.5°	1585.4	1589.7	1604.8	1622.0	1628.5
15°	1555.2	1561.7	1583.3	1604.8	1613.4
17.5°	1522.9	1531.6	1557.4	1583.3	1594.0
20°	1488.5	1497.1	1529.4	1559.6	1572.5
22.5°	1449.7	1460.5	1497.1	1529.4	1542.3
25°	1406.6	1419.5	1456.2	1492.8	1510.0
27.5°	1359.2	1374.3	1415.2	1454.0	1469.1
30°	1309.7	1326.9	1367.8	1408.8	1423.8
32.5°	1255.8	1270.9	1320.5	1359.2	1374.3
35°	1202.0	1217.1	1264.4	1307.5	1322.6
37.5°	1143.8	1163.2	1210.6	1249.4	1264.4
40°	1083.5	1102.9	1148.1	1193.4	1206.3
42.5°	1025.3	1042.6	1085.7	1126.6	1139.5
45°	965.0	980.1	1023.2	1059.8	1079.2
47.5°	902.6	917.6	960.7	995.2	1006.0
50°	840.1	855.2	891.8	921.9	934.9
52.5°	777.6	792.7	827.2	855.2	868.1
55°	715.2	725.9	758.2	784.1	794.9
57.5°	652.7	661.3	687.2	715.2	721.6
60°	588.1	598.8	622.5	641.9	650.5
62.5°	529.9	534.2	555.8	573.0	583.8
65°	469.6	471.7	486.8	506.2	510.5
67.5°	407.1	409.3	424.4	435.1	439.4
70°	349.0	349.0	359.7	368.3	372.7
72.5°	293.0	290.8	297.3	305.9	310.2
75°	234.8	234.8	241.3	245.6	247.7
77.5°	185.3	180.9	185.3	189.6	189.6
80°	135.7	133.6	133.6	135.7	133.6
82.5°	92.6	90.5	92.6	88.3	86.2
85°	51.7	49.5	47.4	43.1	43.1
87.5°	17.2	15.1	15.1	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)