

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: P258489

Luminaire Tested: **D3X-WO-42L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258489
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-42L835-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4093.1 lumens
Efficiency: N/A
Efficacy: 131.2 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

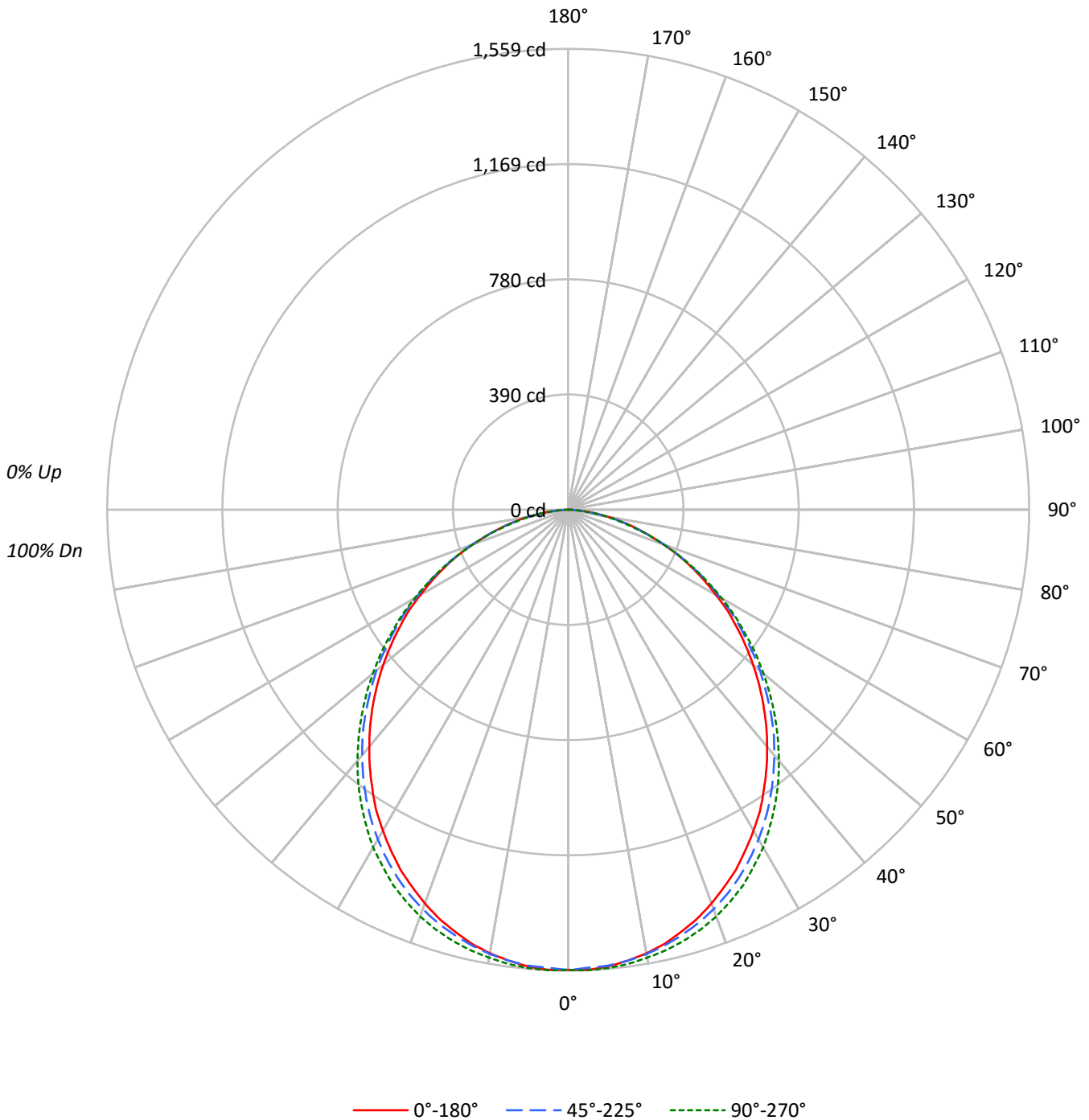
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2095	2095	2095
5°	2095	2091	2103
10°	2082	2085	2102
15°	2059	2074	2103
20°	2029	2059	2097
25°	1994	2035	2080
30°	1947	2001	2050
35°	1896	1957	2002
40°	1838	1904	1947
45°	1776	1842	1881
50°	1709	1772	1804
55°	1637	1688	1714
60°	1555	1595	1614
65°	1466	1488	1497
70°	1345	1362	1345
75°	1211	1204	1168
80°	1026	1015	983
85°	766	746	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.6
10°-20°	421.0	10.3
20°-30°	631.3	15.4
30°-40°	743.4	18.2
40°-50°	743.6	18.2
50°-60°	641.6	15.7
60°-70°	461.6	11.3
70°-80°	244.9	6.0
80°-90°	58.4	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°	1199.7	29.3
0°-40°	1943.1	47.5
0°-60°	3328.2	81.3
0°-90°	4093.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1551	1550	1548	1554	1557	147
15°	1478	1482	1489	1504	1510	417
25°	1343	1351	1370	1394	1401	618
35°	1154	1168	1191	1212	1219	722
45°	934	946	968	984	989	720
55°	698	705	720	732	731	624
65°	460	462	467	470	470	455
75°	233	230	232	226	225	248
85°	50	50	48	44	43	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.7	1556.7	1556.7	1556.7	1556.7
2.5°	1558.1	1555.3	1551.2	1556.7	1559.4
5°	1551.2	1549.8	1548.4	1553.9	1556.7
7.5°	1538.8	1540.1	1538.8	1547.0	1549.8
10°	1523.6	1525.0	1526.4	1536.0	1538.8
12.5°	1504.3	1505.7	1509.8	1522.2	1526.4
15°	1478.1	1482.2	1489.1	1504.3	1509.8
17.5°	1450.5	1456.0	1465.7	1483.6	1489.1
20°	1417.4	1424.3	1438.1	1457.4	1464.3
22.5°	1380.2	1387.1	1406.4	1427.1	1434.0
25°	1343.0	1351.2	1370.5	1394.0	1400.9
27.5°	1298.8	1309.9	1330.6	1354.0	1359.5
30°	1253.3	1263.0	1287.8	1309.9	1319.5
32.5°	1207.8	1217.5	1240.9	1263.0	1269.9
35°	1154.1	1167.9	1191.3	1212.0	1218.9
37.5°	1101.7	1114.1	1138.9	1159.6	1166.5
40°	1046.5	1057.6	1083.8	1103.1	1108.6
42.5°	991.4	1002.4	1028.6	1043.8	1049.3
45°	933.5	945.9	967.9	984.5	988.6
47.5°	875.5	885.2	905.9	921.1	926.6
50°	816.3	825.9	846.6	859.0	861.8
52.5°	757.0	763.9	783.2	794.2	798.3
55°	697.7	704.6	719.7	732.2	730.8
57.5°	641.2	643.9	659.1	667.3	667.3
60°	577.7	580.5	592.9	598.4	599.8
62.5°	518.4	522.6	532.2	533.6	533.6
65°	460.5	461.9	467.4	470.2	470.2
67.5°	402.6	401.2	406.8	406.8	405.4
70°	341.9	344.7	346.1	343.3	341.9
72.5°	286.8	285.4	285.4	284.0	284.0
75°	233.0	230.3	231.6	226.1	224.7
77.5°	183.4	179.2	177.9	175.1	172.4
80°	132.4	132.4	131.0	128.2	126.9
82.5°	88.2	88.2	86.9	84.1	81.4
85°	49.6	49.6	48.3	44.1	42.7
87.5°	16.5	16.5	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)