

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: P258493

Luminaire Tested: **D3X-WO-42L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258493
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-42L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3615.4 lumens
Efficiency: N/A
Efficacy: 115.9 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

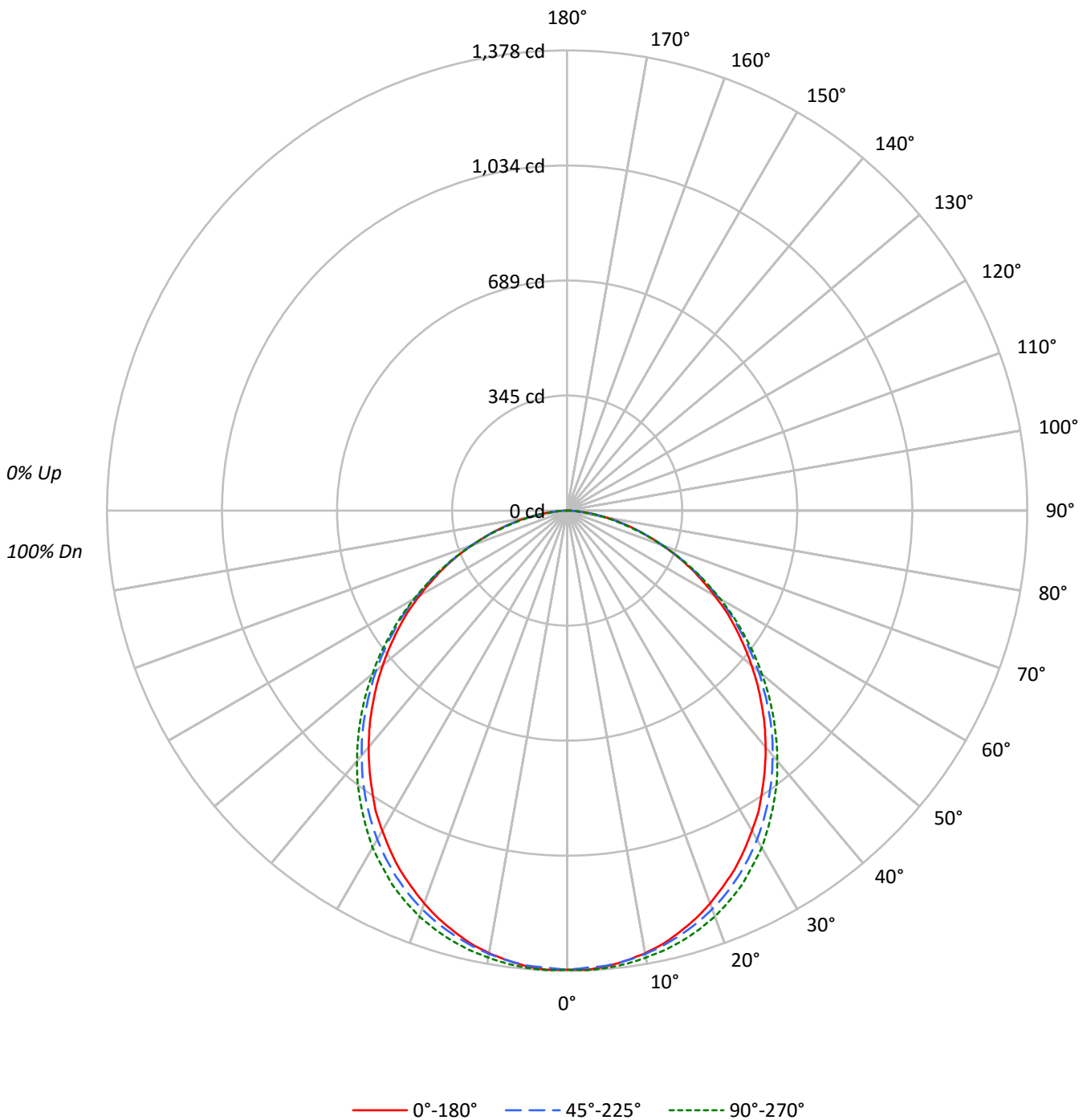
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1850	1850	1850
5°	1851	1847	1857
10°	1839	1842	1857
15°	1819	1832	1858
20°	1793	1819	1852
25°	1761	1797	1837
30°	1720	1767	1811
35°	1674	1728	1768
40°	1624	1681	1720
45°	1569	1627	1662
50°	1509	1565	1593
55°	1446	1491	1514
60°	1373	1409	1426
65°	1295	1315	1322
70°	1188	1203	1188
75°	1070	1064	1032
80°	906	896	868
85°	676	658	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.6
10°-20°	371.9	10.3
20°-30°	557.6	15.4
30°-40°	656.7	18.2
40°-50°	656.8	18.2
50°-60°	566.7	15.7
60°-70°	407.8	11.3
70°-80°	216.3	6.0
80°-90°	51.6	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°	1059.7	29.3
0°-40°	1716.4	47.5
0°-60°	2939.8	81.3
0°-90°	3615.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1370	1369	1368	1373	1375	130
15°	1306	1309	1315	1329	1334	368
25°	1186	1194	1211	1231	1237	546
35°	1019	1032	1052	1070	1077	638
45°	824	836	855	870	873	636
55°	616	622	636	647	646	552
65°	407	408	413	415	415	402
75°	206	203	205	200	198	219
85°	44	44	43	39	38	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.0	1375.0	1375.0	1375.0	1375.0
2.5°	1376.2	1373.8	1370.2	1375.0	1377.5
5°	1370.2	1368.9	1367.7	1372.6	1375.0
7.5°	1359.2	1360.4	1359.2	1366.5	1368.9
10°	1345.8	1347.0	1348.2	1356.8	1359.2
12.5°	1328.7	1330.0	1333.6	1344.6	1348.2
15°	1305.6	1309.3	1315.3	1328.7	1333.6
17.5°	1281.2	1286.1	1294.6	1310.5	1315.3
20°	1252.0	1258.1	1270.3	1287.3	1293.4
22.5°	1219.1	1225.2	1242.3	1260.5	1266.6
25°	1186.3	1193.6	1210.6	1231.3	1237.4
27.5°	1147.3	1157.0	1175.3	1196.0	1200.9
30°	1107.1	1115.6	1137.5	1157.0	1165.5
32.5°	1066.9	1075.4	1096.1	1115.6	1121.7
35°	1019.4	1031.6	1052.3	1070.5	1076.6
37.5°	973.1	984.1	1006.0	1024.3	1030.4
40°	924.4	934.1	957.3	974.3	979.2
42.5°	875.7	885.4	908.6	922.0	926.8
45°	824.5	835.5	855.0	869.6	873.2
47.5°	773.4	781.9	800.2	813.6	818.4
50°	721.0	729.5	747.8	758.8	761.2
52.5°	668.6	674.7	691.8	701.5	705.2
55°	616.3	622.4	635.8	646.7	645.5
57.5°	566.3	568.8	582.2	589.5	589.5
60°	510.3	512.7	523.7	528.6	529.8
62.5°	457.9	461.6	470.1	471.3	471.3
65°	406.8	408.0	412.9	415.3	415.3
67.5°	355.6	354.4	359.3	359.3	358.1
70°	302.0	304.5	305.7	303.3	302.0
72.5°	253.3	252.1	252.1	250.9	250.9
75°	205.8	203.4	204.6	199.7	198.5
77.5°	162.0	158.3	157.1	154.7	152.2
80°	116.9	116.9	115.7	113.3	112.0
82.5°	77.9	77.9	76.7	74.3	71.9
85°	43.8	43.8	42.6	39.0	37.8
87.5°	14.6	14.6	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)