

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: P297339

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-42L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4116.0 lumens
Efficiency: N/A
Efficacy: 141.0 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

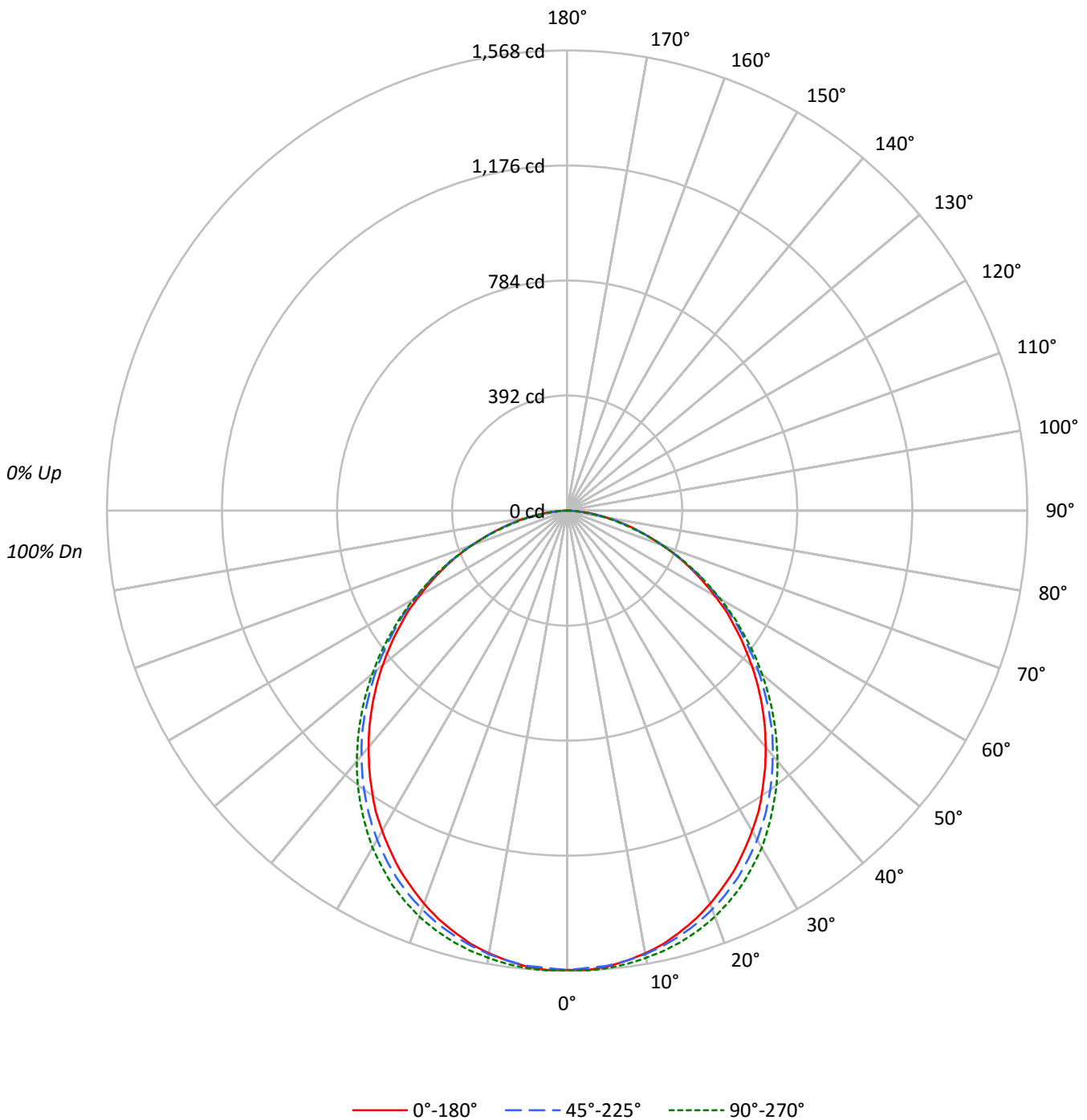
Input Watts (W): 29.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2106	2106	2106
5°	2107	2103	2114
10°	2093	2097	2114
15°	2070	2086	2115
20°	2041	2071	2108
25°	2005	2046	2091
30°	1958	2012	2062
35°	1906	1968	2013
40°	1848	1914	1958
45°	1786	1852	1892
50°	1718	1782	1814
55°	1646	1698	1724
60°	1563	1604	1623
65°	1474	1496	1505
70°	1353	1369	1353
75°	1218	1211	1175
80°	1031	1020	989
85°	770	749	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.6
10°-20°	423.4	10.3
20°-30°	634.8	15.4
30°-40°	747.6	18.2
40°-50°	747.7	18.2
50°-60°	645.1	15.7
60°-70°	464.2	11.3
70°-80°	246.2	6.0
80°-90°	58.7	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°	1206.4	29.3
0°-40°	1954.0	47.5
0°-60°	3346.8	81.3
0°-90°	4116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1560	1558	1557	1563	1565	148
15°	1486	1490	1498	1513	1518	419
25°	1350	1359	1378	1402	1409	621
35°	1160	1174	1198	1219	1226	726
45°	939	951	973	990	994	724
55°	702	708	724	736	735	628
65°	463	464	470	473	473	458
75°	234	232	233	227	226	249
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°	1565.4	1565.4	1565.4	1565.4	1565.4
2.5°	1566.8	1564.0	1559.8	1565.4	1568.2
5°	1559.8	1558.5	1557.1	1562.6	1565.4
7.5°	1547.4	1548.8	1547.4	1555.7	1558.5
10°	1532.1	1533.5	1534.9	1544.6	1547.4
12.5°	1512.7	1514.1	1518.2	1530.7	1534.9
15°	1486.4	1490.5	1497.5	1512.7	1518.2
17.5°	1458.6	1464.2	1473.9	1491.9	1497.5
20°	1425.4	1432.3	1446.1	1465.6	1472.5
22.5°	1387.9	1394.8	1414.3	1435.1	1442.0
25°	1350.5	1358.8	1378.2	1401.8	1408.7
27.5°	1306.1	1317.2	1338.0	1361.6	1367.1
30°	1260.4	1270.1	1295.0	1317.2	1326.9
32.5°	1214.6	1224.3	1247.9	1270.1	1277.0
35°	1160.5	1174.4	1198.0	1218.8	1225.7
37.5°	1107.8	1120.3	1145.3	1166.1	1173.0
40°	1052.4	1063.5	1089.8	1109.2	1114.8
42.5°	996.9	1008.0	1034.4	1049.6	1055.1
45°	938.7	951.2	973.3	990.0	994.1
47.5°	880.4	890.2	910.9	926.2	931.7
50°	820.8	830.5	851.3	863.8	866.6
52.5°	761.2	768.1	787.5	798.6	802.8
55°	701.6	708.5	723.8	736.2	734.9
57.5°	644.7	647.5	662.8	671.1	671.1
60°	581.0	583.7	596.2	601.8	603.1
62.5°	521.3	525.5	535.2	536.6	536.6
65°	463.1	464.5	470.0	472.8	472.8
67.5°	404.9	403.5	409.0	409.0	407.6
70°	343.9	346.6	348.0	345.2	343.9
72.5°	288.4	287.0	287.0	285.6	285.6
75°	234.3	231.6	232.9	227.4	226.0
77.5°	184.4	180.2	178.9	176.1	173.3
80°	133.1	133.1	131.7	128.9	127.6
82.5°	88.7	88.7	87.4	84.6	81.8
85°	49.9	49.9	48.5	44.4	43.0
87.5°	16.6	16.6	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)