

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: P297279

Luminaire Tested: **D3X-WO-42L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297279  
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-42L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3982.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

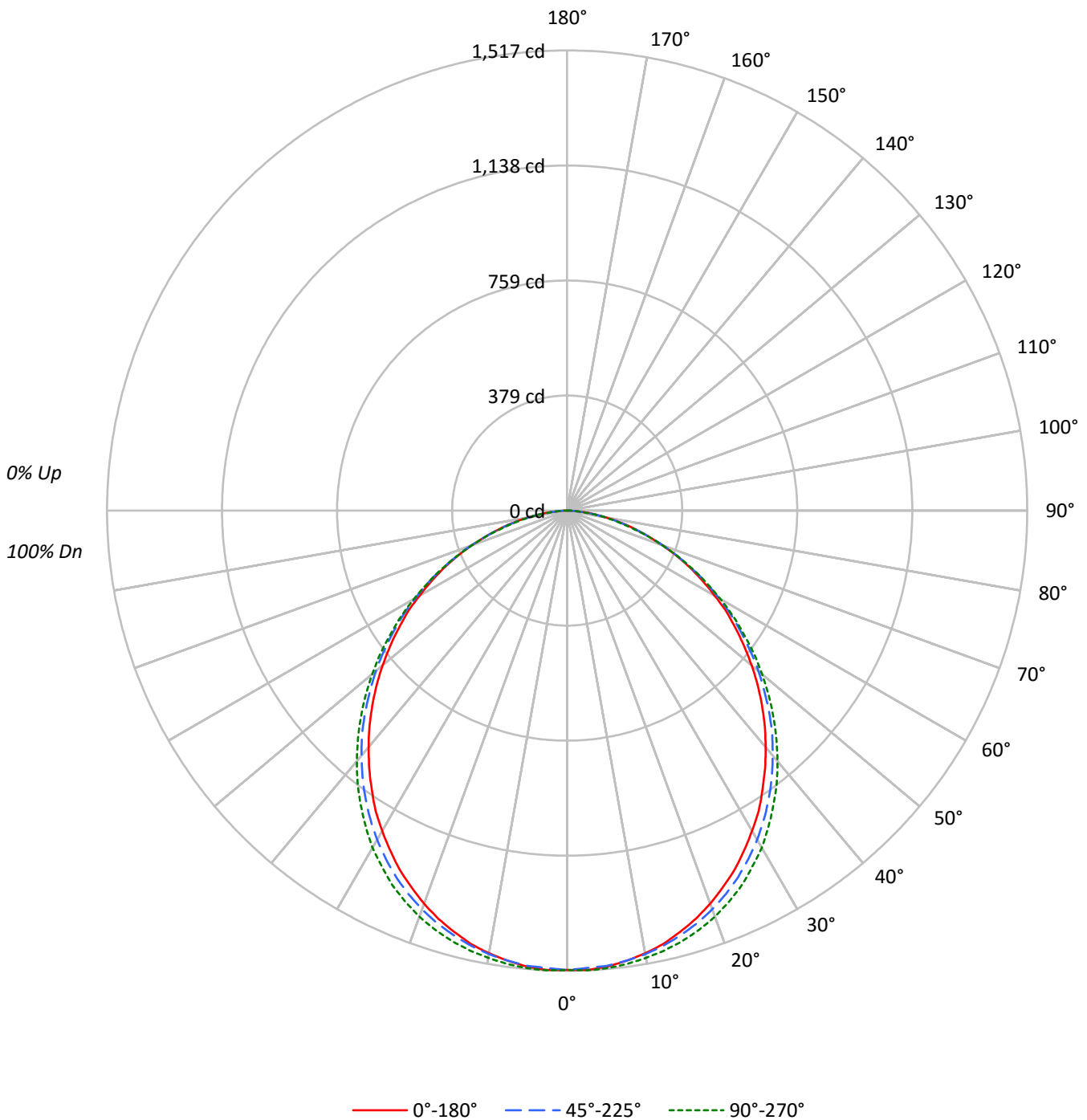
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2038	2038	2038
5°	2038	2035	2045
10°	2025	2029	2045
15°	2003	2018	2046
20°	1974	2003	2040
25°	1940	1979	2023
30°	1894	1947	1994
35°	1844	1904	1948
40°	1788	1852	1894
45°	1728	1792	1830
50°	1662	1724	1755
55°	1592	1643	1668
60°	1512	1552	1570
65°	1426	1448	1456
70°	1309	1325	1309
75°	1179	1172	1136
80°	998	987	956
85°	746	724	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	3.6
10°-20°	409.6	10.3
20°-30°	614.1	15.4
30°-40°	723.2	18.2
40°-50°	723.4	18.2
50°-60°	624.1	15.7
60°-70°	449.1	11.3
70°-80°	238.2	6.0
80°-90°	56.8	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°	1167.1	29.3
0°-40°	1890.4	47.5
0°-60°	3237.8	81.3
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1509	1508	1506	1512	1514	143
15°	1438	1442	1449	1464	1469	405
25°	1306	1315	1333	1356	1363	601
35°	1123	1136	1159	1179	1186	702
45°	908	920	942	958	962	701
55°	679	685	700	712	711	607
65°	448	449	455	457	457	443
75°	227	224	225	220	219	241
85°	48	48	47	43	42	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1514.4	1514.4	1514.4	1514.4	1514.4
2.5°	1515.8	1513.1	1509.1	1514.4	1517.1
5°	1509.1	1507.7	1506.4	1511.7	1514.4
7.5°	1497.0	1498.3	1497.0	1505.0	1507.7
10°	1482.2	1483.6	1484.9	1494.3	1497.0
12.5°	1463.5	1464.8	1468.8	1480.9	1484.9
15°	1438.0	1442.0	1448.7	1463.5	1468.8
17.5°	1411.1	1416.5	1425.9	1443.3	1448.7
20°	1378.9	1385.7	1399.1	1417.8	1424.6
22.5°	1342.7	1349.4	1368.2	1388.3	1395.0
25°	1306.5	1314.6	1333.3	1356.1	1362.9
27.5°	1263.6	1274.3	1294.4	1317.2	1322.6
30°	1219.3	1228.7	1252.9	1274.3	1283.7
32.5°	1175.1	1184.4	1207.3	1228.7	1235.4
35°	1122.7	1136.2	1159.0	1179.1	1185.8
37.5°	1071.8	1083.8	1108.0	1128.1	1134.8
40°	1018.1	1028.8	1054.3	1073.1	1078.5
42.5°	964.5	975.2	1000.7	1015.4	1020.8
45°	908.1	920.2	941.7	957.8	961.8
47.5°	851.8	861.2	881.3	896.0	901.4
50°	794.1	803.5	823.6	835.7	838.4
52.5°	736.4	743.1	761.9	772.6	776.7
55°	678.7	685.4	700.2	712.3	710.9
57.5°	623.7	626.4	641.2	649.2	649.2
60°	562.0	564.7	576.8	582.2	583.5
62.5°	504.4	508.4	517.8	519.1	519.1
65°	448.0	449.4	454.7	457.4	457.4
67.5°	391.7	390.3	395.7	395.7	394.4
70°	332.7	335.3	336.7	334.0	332.7
72.5°	279.0	277.7	277.7	276.3	276.3
75°	226.7	224.0	225.4	220.0	218.6
77.5°	178.4	174.4	173.0	170.4	167.7
80°	128.8	128.8	127.4	124.7	123.4
82.5°	85.8	85.8	84.5	81.8	79.1
85°	48.3	48.3	46.9	42.9	41.6
87.5°	16.1	16.1	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)