

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: P297337

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297337  
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-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3867.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

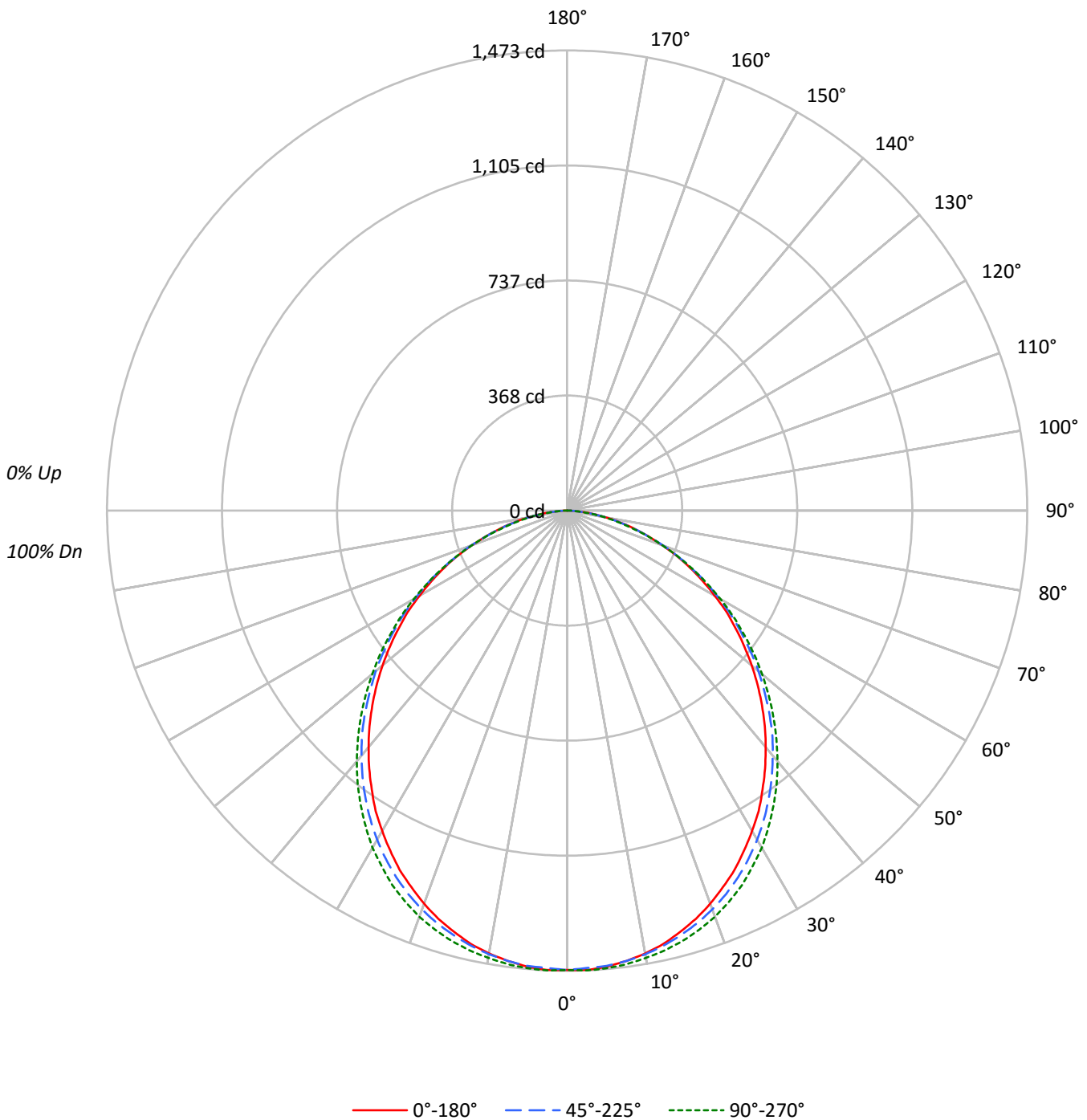
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1979	1979	1979
5°	1979	1976	1986
10°	1967	1970	1986
15°	1945	1960	1987
20°	1917	1945	1981
25°	1884	1922	1965
30°	1840	1890	1937
35°	1791	1849	1891
40°	1737	1798	1839
45°	1678	1740	1777
50°	1614	1674	1704
55°	1546	1595	1620
60°	1469	1507	1525
65°	1385	1406	1414
70°	1271	1286	1271
75°	1144	1137	1104
80°	969	959	928
85°	724	704	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.2	3.6
10°-20°	397.8	10.3
20°-30°	596.4	15.4
30°-40°	702.3	18.2
40°-50°	702.5	18.2
50°-60°	606.1	15.7
60°-70°	436.1	11.3
70°-80°	231.3	6.0
80°-90°	55.2	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°	1133.4	29.3
0°-40°	1835.8	47.5
0°-60°	3144.3	81.3
0°-90°	3867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3867.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1466	1464	1463	1468	1471	139
15°	1396	1400	1407	1421	1426	394
25°	1269	1277	1295	1317	1324	584
35°	1090	1103	1126	1145	1152	682
45°	882	894	914	930	934	680
55°	659	666	680	692	690	590
65°	435	436	442	444	444	430
75°	220	218	219	214	212	234
85°	47	47	46	42	40	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1472.0	1469.4	1465.5	1470.7	1473.3
5°	1465.5	1464.2	1462.9	1468.1	1470.7
7.5°	1453.8	1455.1	1453.8	1461.6	1464.2
10°	1439.4	1440.7	1442.0	1451.2	1453.8
12.5°	1421.2	1422.5	1426.4	1438.1	1442.0
15°	1396.4	1400.3	1406.9	1421.2	1426.4
17.5°	1370.4	1375.6	1384.7	1401.7	1406.9
20°	1339.1	1345.6	1358.7	1376.9	1383.4
22.5°	1304.0	1310.5	1328.7	1348.2	1354.8
25°	1268.8	1276.6	1294.8	1317.0	1323.5
27.5°	1227.1	1237.5	1257.1	1279.2	1284.4
30°	1184.1	1193.2	1216.7	1237.5	1246.6
32.5°	1141.1	1150.2	1172.4	1193.2	1199.7
35°	1090.3	1103.3	1125.5	1145.0	1151.5
37.5°	1040.8	1052.5	1076.0	1095.5	1102.0
40°	988.7	999.1	1023.9	1042.1	1047.3
42.5°	936.6	947.0	971.8	986.1	991.3
45°	881.9	893.6	914.5	930.1	934.0
47.5°	827.2	836.3	855.8	870.2	875.4
50°	771.2	780.3	799.8	811.6	814.2
52.5°	715.2	721.7	739.9	750.3	754.2
55°	659.1	665.7	680.0	691.7	690.4
57.5°	605.7	608.3	622.7	630.5	630.5
60°	545.8	548.4	560.1	565.3	566.7
62.5°	489.8	493.7	502.8	504.1	504.1
65°	435.1	436.4	441.6	444.2	444.2
67.5°	380.4	379.1	384.3	384.3	383.0
70°	323.1	325.7	327.0	324.4	323.1
72.5°	271.0	269.6	269.6	268.3	268.3
75°	220.1	217.5	218.8	213.6	212.3
77.5°	173.3	169.3	168.0	165.4	162.8
80°	125.1	125.1	123.8	121.1	119.8
82.5°	83.4	83.4	82.1	79.5	76.9
85°	46.9	46.9	45.6	41.7	40.4
87.5°	15.6	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)