

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: P297062

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-42L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4080.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

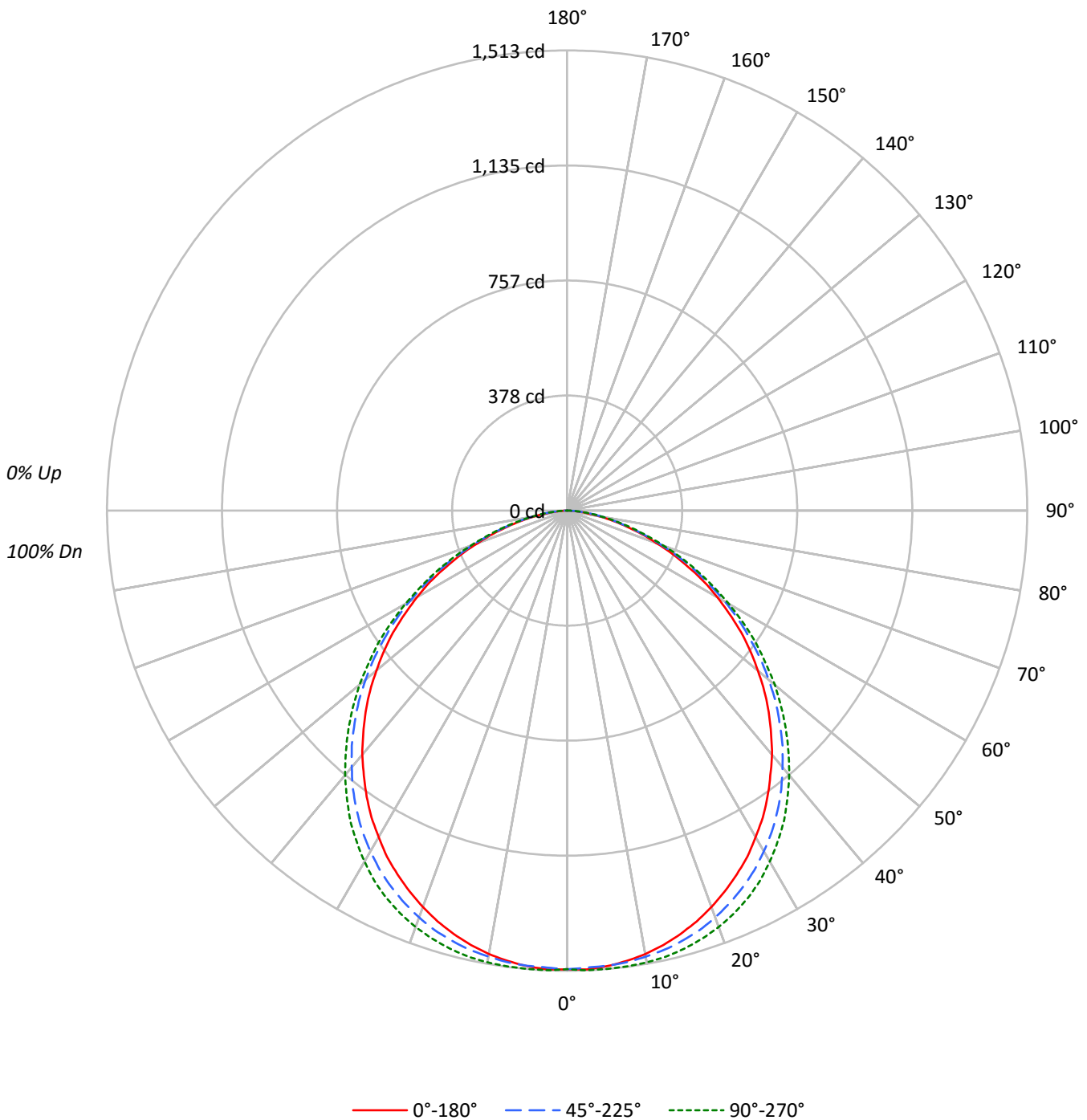
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	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	27	38	32	27	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2029	2029	2029
5°	2031	2029	2043
10°	2023	2035	2061
15°	2007	2040	2077
20°	1986	2038	2086
25°	1959	2029	2087
30°	1926	2009	2071
35°	1887	1981	2043
40°	1841	1936	1995
45°	1783	1880	1936
50°	1713	1811	1866
55°	1639	1721	1776
60°	1534	1612	1652
65°	1401	1475	1512
70°	1231	1293	1328
75°	1041	1094	1132
80°	827	906	928
85°	563	676	655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	3.5
10°-20°	413.7	10.1
20°-30°	628.8	15.4
30°-40°	750.3	18.4
40°-50°	757.8	18.6
50°-60°	652.9	16.0
60°-70°	455.1	11.2
70°-80°	225.5	5.5
80°-90°	52.6	1.3
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°	1185.8	29.1
0°-40°	1936.1	47.5
0°-60°	3346.7	82.0
0°-90°	4080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1504	1502	1502	1510	1513	143
15°	1441	1448	1464	1483	1491	406
25°	1320	1337	1366	1394	1406	608
35°	1149	1168	1206	1234	1244	718
45°	937	957	988	1011	1017	722
55°	699	713	734	751	757	623
65°	440	449	463	468	475	437
75°	200	203	210	215	218	216
85°	36	44	44	41	42	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1508.3	1508.3	1508.3	1508.3	1508.3
2.5°	1509.8	1506.8	1503.9	1509.8	1512.7
5°	1503.9	1502.4	1502.4	1509.8	1512.7
7.5°	1493.7	1493.7	1498.1	1508.3	1511.2
10°	1480.5	1483.4	1489.3	1503.9	1508.3
12.5°	1463.0	1468.8	1479.1	1496.6	1502.4
15°	1441.1	1448.4	1464.4	1483.4	1490.8
17.5°	1416.2	1426.4	1446.9	1468.8	1476.1
20°	1387.0	1400.1	1423.5	1448.4	1457.1
22.5°	1354.8	1370.9	1397.2	1423.5	1433.8
25°	1319.8	1337.3	1366.5	1394.3	1406.0
27.5°	1283.2	1300.8	1332.9	1360.7	1372.4
30°	1239.4	1259.8	1293.4	1322.7	1332.9
32.5°	1197.0	1217.4	1252.5	1278.8	1289.1
35°	1148.8	1167.8	1205.8	1233.5	1243.8
37.5°	1097.6	1119.5	1156.1	1180.9	1189.7
40°	1047.9	1066.9	1102.0	1126.8	1135.6
42.5°	992.4	1012.8	1047.9	1069.8	1077.1
45°	936.8	957.3	988.0	1011.4	1017.2
47.5°	879.8	898.8	929.5	948.5	954.4
50°	818.5	836.0	865.2	884.2	891.5
52.5°	760.0	776.1	800.9	817.0	821.4
55°	698.6	713.2	733.7	751.2	757.1
57.5°	632.8	648.9	667.9	682.5	686.9
60°	570.0	583.1	599.2	612.4	613.8
62.5°	508.6	514.5	529.1	540.8	542.2
65°	439.9	448.7	463.3	467.7	475.0
67.5°	377.1	382.9	394.6	400.5	406.3
70°	312.8	317.2	328.8	336.1	337.6
72.5°	257.2	258.7	267.5	273.3	274.8
75°	200.2	203.2	210.5	214.8	217.8
77.5°	152.0	154.9	160.8	163.7	163.7
80°	106.7	111.1	116.9	118.4	119.8
82.5°	68.7	74.5	78.9	80.4	77.5
85°	36.5	43.8	43.8	40.9	42.4
87.5°	13.2	16.1	17.5	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)