

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: P297061

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297061  
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-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4026.0 lumens  
Efficiency: N/A  
Efficacy: 135.6 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

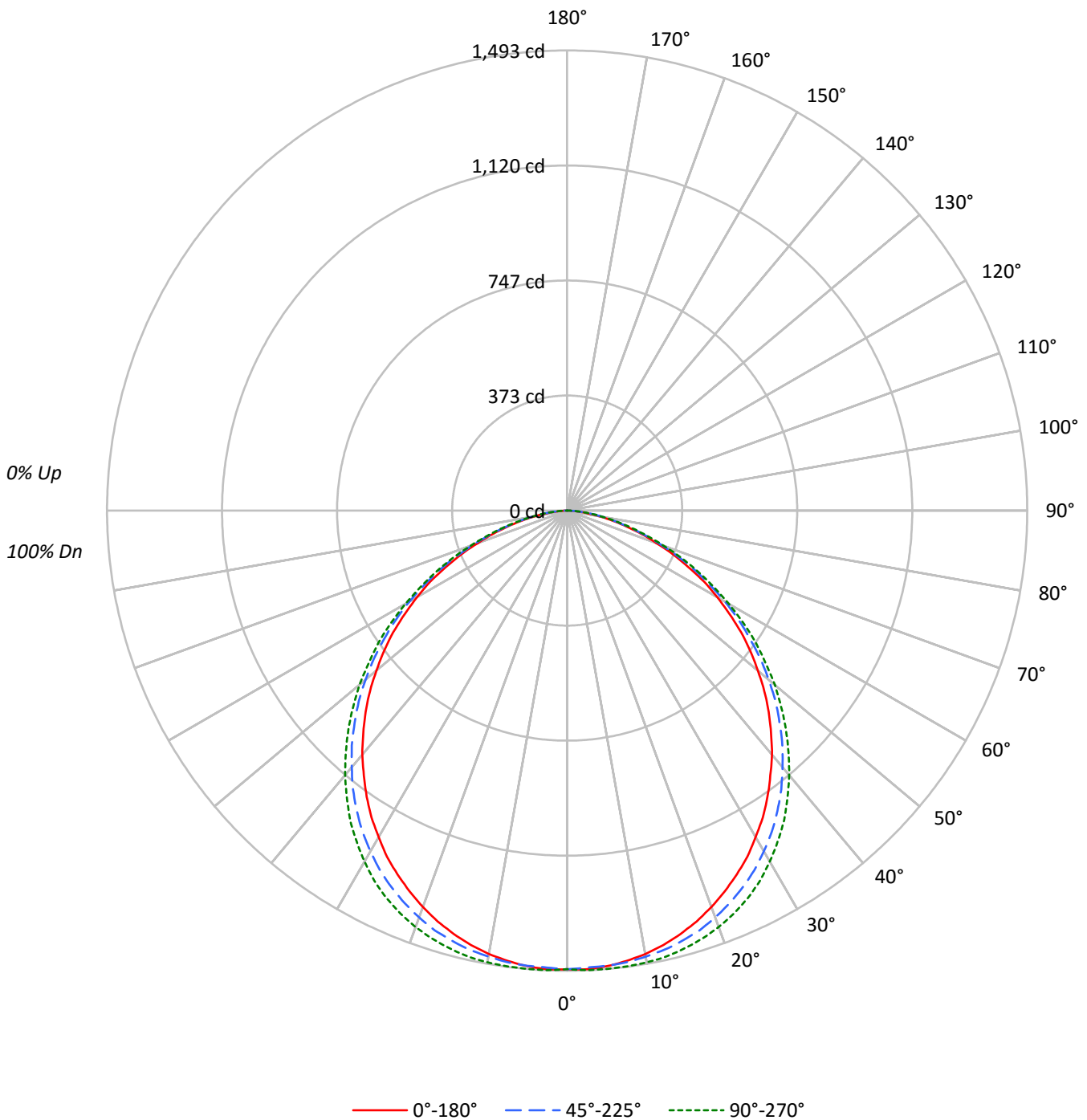
Input Watts (W): 29.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2002	2002	2002
5°	2004	2002	2016
10°	1996	2008	2033
15°	1981	2013	2049
20°	1960	2011	2059
25°	1933	2002	2060
30°	1900	1983	2043
35°	1862	1954	2016
40°	1816	1910	1968
45°	1759	1855	1910
50°	1690	1787	1841
55°	1617	1698	1752
60°	1513	1591	1630
65°	1382	1456	1492
70°	1214	1277	1310
75°	1027	1080	1117
80°	816	894	917
85°	557	668	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.4	3.5
10°-20°	408.3	10.1
20°-30°	620.5	15.4
30°-40°	740.4	18.4
40°-50°	747.7	18.6
50°-60°	644.2	16.0
60°-70°	449.1	11.2
70°-80°	222.6	5.5
80°-90°	51.9	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°	1170.2	29.1
0°-40°	1910.5	47.5
0°-60°	3302.5	82.0
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1484	1483	1483	1490	1493	141
15°	1422	1429	1445	1464	1471	401
25°	1302	1320	1348	1376	1387	600
35°	1134	1152	1190	1217	1227	709
45°	924	945	975	998	1004	713
55°	689	704	724	741	747	614
65°	434	443	457	462	469	431
75°	198	200	208	212	215	213
85°	36	43	43	40	42	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1488.3	1488.3	1488.3	1488.3	1488.3
2.5°	1489.8	1486.9	1484.0	1489.8	1492.7
5°	1484.0	1482.6	1482.6	1489.8	1492.7
7.5°	1473.9	1473.9	1478.2	1488.3	1491.2
10°	1460.9	1463.8	1469.6	1484.0	1488.3
12.5°	1443.6	1449.4	1459.5	1476.8	1482.6
15°	1422.0	1429.2	1445.1	1463.8	1471.0
17.5°	1397.5	1407.6	1427.8	1449.4	1456.6
20°	1368.6	1381.6	1404.7	1429.2	1437.9
22.5°	1336.9	1352.8	1378.7	1404.7	1414.8
25°	1302.3	1319.6	1348.4	1375.8	1387.4
27.5°	1266.2	1283.5	1315.3	1342.7	1354.2
30°	1223.0	1243.2	1276.3	1305.2	1315.3
32.5°	1181.1	1201.3	1235.9	1261.9	1272.0
35°	1133.6	1152.3	1189.8	1217.2	1227.3
37.5°	1083.1	1104.7	1140.8	1165.3	1173.9
40°	1034.0	1052.8	1087.4	1111.9	1120.6
42.5°	979.2	999.4	1034.0	1055.7	1062.9
45°	924.4	944.6	974.9	998.0	1003.8
47.5°	868.2	886.9	917.2	936.0	941.7
50°	807.6	824.9	853.8	872.5	879.7
52.5°	749.9	765.8	790.3	806.2	810.5
55°	689.4	703.8	724.0	741.3	747.0
57.5°	624.5	640.3	659.1	673.5	677.8
60°	562.4	575.4	591.3	604.3	605.7
62.5°	501.9	507.6	522.1	533.6	535.0
65°	434.1	442.7	457.2	461.5	468.7
67.5°	372.1	377.9	389.4	395.2	400.9
70°	308.6	313.0	324.5	331.7	333.1
72.5°	253.8	255.3	263.9	269.7	271.1
75°	197.6	200.5	207.7	212.0	214.9
77.5°	150.0	152.9	158.6	161.5	161.5
80°	105.3	109.6	115.4	116.8	118.3
82.5°	67.8	73.6	77.9	79.3	76.4
85°	36.1	43.3	43.3	40.4	41.8
87.5°	13.0	15.9	17.3	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)