

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: P297070

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297070  
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-45L82765-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: 4344.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

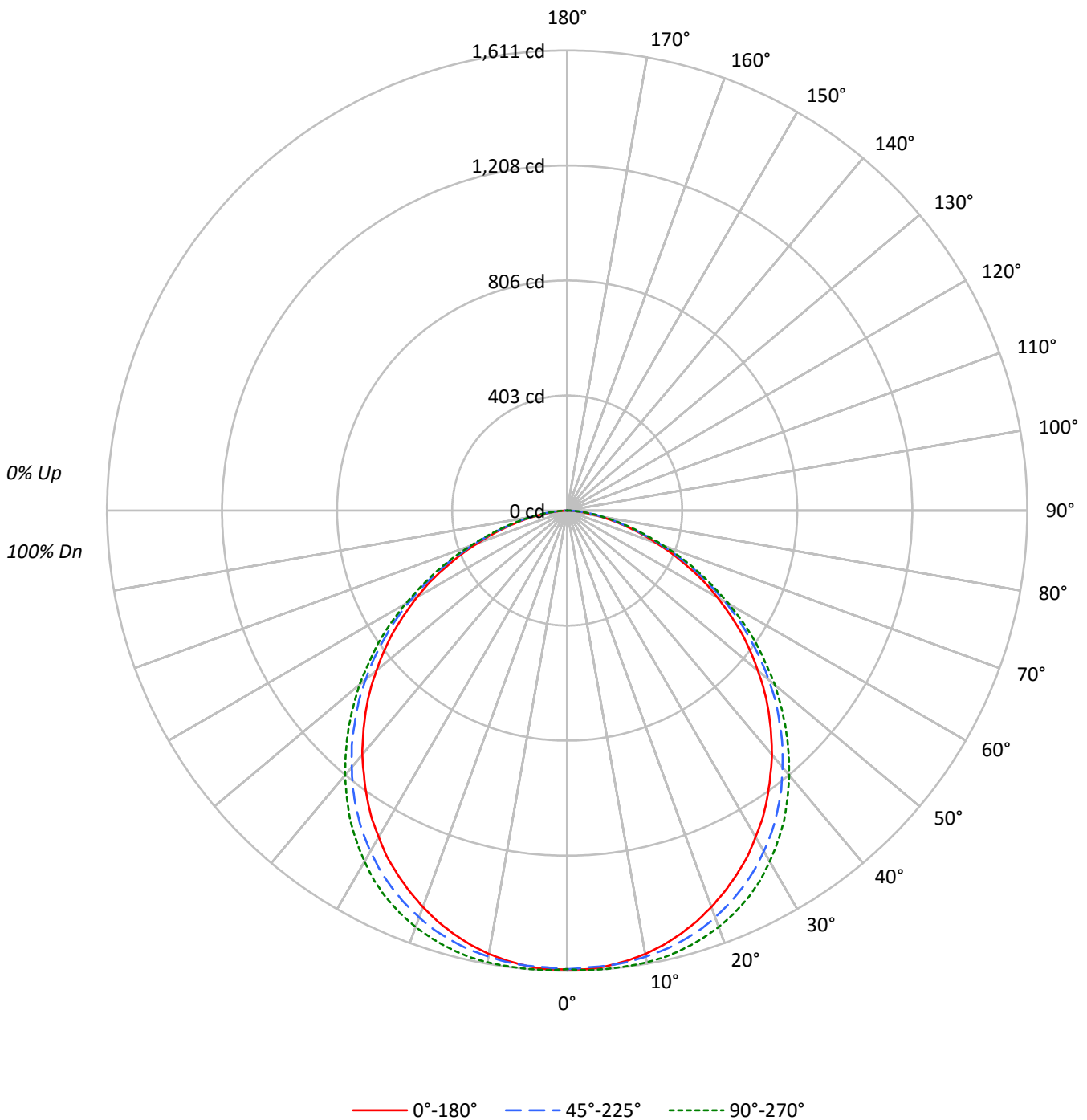
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2161	2161	2161
5°	2163	2161	2175
10°	2154	2166	2194
15°	2137	2172	2211
20°	2114	2170	2221
25°	2086	2160	2222
30°	2050	2140	2205
35°	2009	2109	2175
40°	1960	2061	2124
45°	1898	2002	2061
50°	1824	1928	1987
55°	1745	1833	1891
60°	1633	1717	1759
65°	1491	1571	1610
70°	1310	1377	1414
75°	1108	1165	1206
80°	880	965	989
85°	601	721	696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	3.5
10°-20°	440.5	10.1
20°-30°	669.5	15.4
30°-40°	798.8	18.4
40°-50°	806.8	18.6
50°-60°	695.1	16.0
60°-70°	484.6	11.2
70°-80°	240.1	5.5
80°-90°	56.0	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°	1262.6	29.1
0°-40°	2061.4	47.5
0°-60°	3563.3	82.0
0°-90°	4344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4344.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1601	1600	1600	1607	1611	152
15°	1534	1542	1559	1579	1587	433
25°	1405	1424	1455	1484	1497	647
35°	1223	1243	1284	1313	1324	764
45°	998	1019	1052	1077	1083	769
55°	744	759	781	800	806	663
65°	468	478	493	498	506	465
75°	213	216	224	229	232	230
85°	39	47	47	44	45	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1607.4	1604.3	1601.2	1607.4	1610.6
5°	1601.2	1599.7	1599.7	1607.4	1610.6
7.5°	1590.3	1590.3	1595.0	1605.9	1609.0
10°	1576.3	1579.4	1585.7	1601.2	1605.9
12.5°	1557.6	1563.9	1574.8	1593.4	1599.7
15°	1534.3	1542.1	1559.2	1579.4	1587.2
17.5°	1507.9	1518.7	1540.5	1563.9	1571.7
20°	1476.7	1490.7	1515.6	1542.1	1551.4
22.5°	1442.5	1459.6	1487.6	1515.6	1526.5
25°	1405.1	1423.8	1454.9	1484.5	1497.0
27.5°	1366.2	1384.9	1419.2	1448.7	1461.2
30°	1319.6	1341.3	1377.1	1408.3	1419.2
32.5°	1274.4	1296.2	1333.6	1361.6	1372.5
35°	1223.1	1243.3	1283.8	1313.3	1324.2
37.5°	1168.6	1192.0	1230.9	1257.3	1266.7
40°	1115.7	1135.9	1173.3	1199.7	1209.1
42.5°	1056.6	1078.4	1115.7	1139.1	1146.8
45°	997.5	1019.2	1051.9	1076.8	1083.0
47.5°	936.8	957.0	989.7	1009.9	1016.1
50°	871.4	890.1	921.2	941.4	949.2
52.5°	809.2	826.3	852.7	869.9	874.5
55°	743.8	759.4	781.2	799.8	806.1
57.5°	673.8	690.9	711.1	726.7	731.4
60°	606.9	620.9	638.0	652.0	653.6
62.5°	541.5	547.7	563.3	575.8	577.3
65°	468.4	477.7	493.3	497.9	505.7
67.5°	401.5	407.7	420.1	426.4	432.6
70°	333.0	337.7	350.1	357.9	359.5
72.5°	273.9	275.4	284.8	291.0	292.5
75°	213.2	216.3	224.1	228.7	231.9
77.5°	161.8	164.9	171.2	174.3	174.3
80°	113.6	118.3	124.5	126.0	127.6
82.5°	73.1	79.4	84.0	85.6	82.5
85°	38.9	46.7	46.7	43.6	45.1
87.5°	14.0	17.1	18.7	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)