

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: P297084

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297084  
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-55L82765-LD5-UNV-24-T1-W2A-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4788.0 lumens  
Efficiency: N/A  
Efficacy: 125.0 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

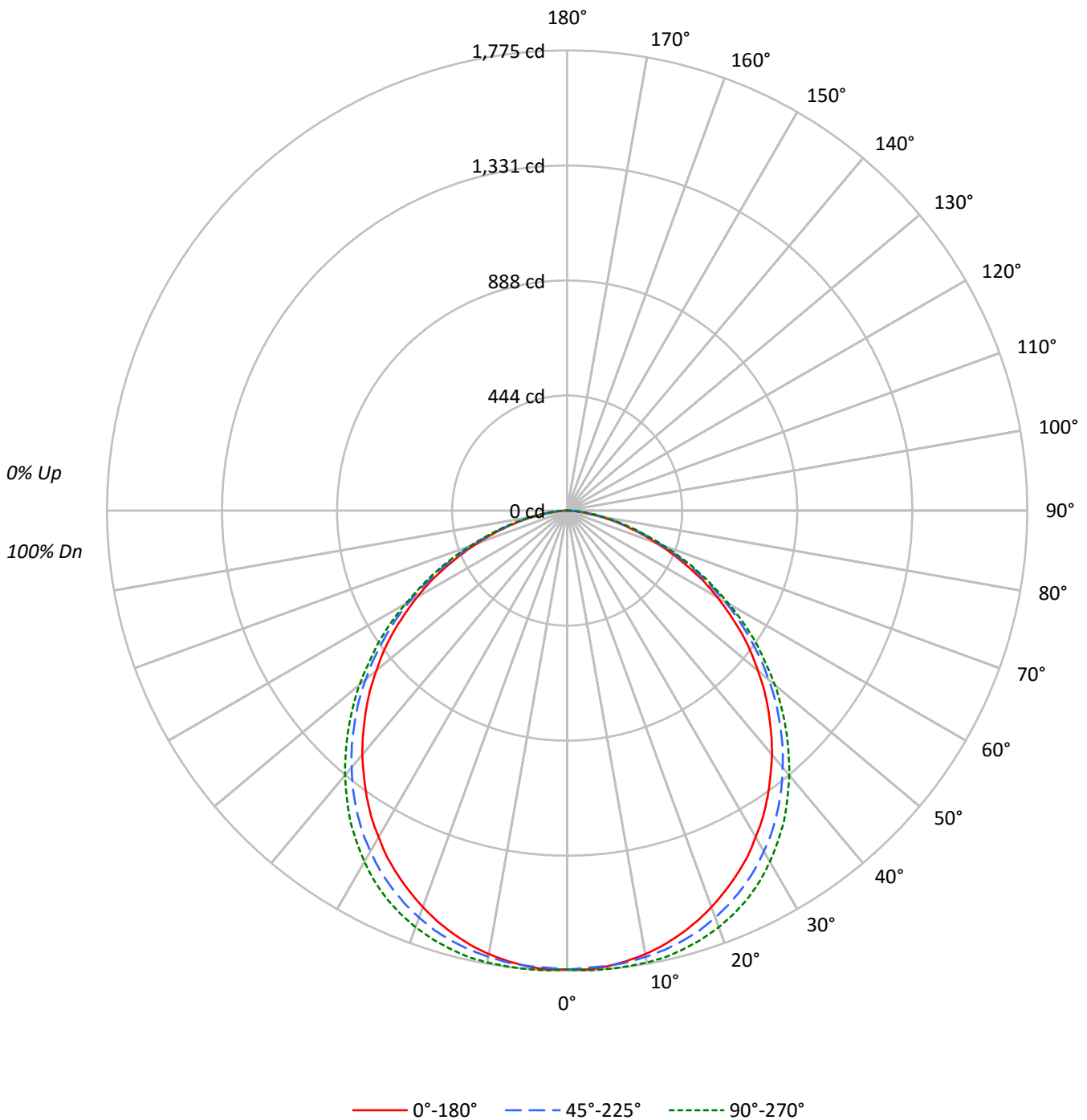
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2382	2382	2382
5°	2384	2381	2398
10°	2374	2388	2418
15°	2356	2394	2437
20°	2331	2392	2448
25°	2299	2381	2450
30°	2260	2358	2430
35°	2214	2324	2397
40°	2160	2271	2341
45°	2092	2206	2271
50°	2011	2125	2190
55°	1923	2020	2084
60°	1800	1892	1939
65°	1644	1731	1775
70°	1444	1518	1559
75°	1222	1284	1329
80°	970	1063	1089
85°	662	795	767



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.2	3.5
10°-20°	485.6	10.1
20°-30°	737.9	15.4
30°-40°	880.5	18.4
40°-50°	889.3	18.6
50°-60°	766.2	16.0
60°-70°	534.1	11.2
70°-80°	264.7	5.5
80°-90°	61.7	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°	1391.6	29.1
0°-40°	2272.1	47.5
0°-60°	3927.5	82.0
0°-90°	4788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4788.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1765	1763	1763	1772	1775	168
15°	1691	1700	1719	1741	1749	477
25°	1549	1569	1604	1636	1650	713
35°	1348	1370	1415	1448	1460	843
45°	1099	1123	1159	1187	1194	847
55°	820	837	861	882	888	731
65°	516	526	544	549	557	513
75°	235	238	247	252	256	253
85°	43	52	52	48	50	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1770.0	1770.0	1770.0	1770.0	1770.0
2.5°	1771.7	1768.3	1764.9	1771.7	1775.2
5°	1764.9	1763.2	1763.2	1771.7	1775.2
7.5°	1752.9	1752.9	1758.0	1770.0	1773.5
10°	1737.4	1740.9	1747.7	1764.9	1770.0
12.5°	1716.9	1723.7	1735.7	1756.3	1763.2
15°	1691.1	1699.7	1718.6	1740.9	1749.4
17.5°	1662.0	1674.0	1698.0	1723.7	1732.3
20°	1627.7	1643.1	1670.5	1699.7	1710.0
22.5°	1589.9	1608.8	1639.7	1670.5	1682.6
25°	1548.8	1569.4	1603.7	1636.2	1650.0
27.5°	1505.9	1526.5	1564.2	1596.8	1610.5
30°	1454.4	1478.4	1517.9	1552.2	1564.2
32.5°	1404.7	1428.7	1469.9	1500.7	1512.8
35°	1348.1	1370.4	1415.0	1447.6	1459.6
37.5°	1288.1	1313.8	1356.7	1385.8	1396.1
40°	1229.8	1252.1	1293.2	1322.4	1332.7
42.5°	1164.6	1188.6	1229.8	1255.5	1264.1
45°	1099.4	1123.4	1159.4	1186.9	1193.7
47.5°	1032.5	1054.8	1090.8	1113.1	1120.0
50°	960.5	981.1	1015.4	1037.7	1046.2
52.5°	891.9	910.7	939.9	958.8	963.9
55°	819.8	837.0	861.0	881.6	888.4
57.5°	742.7	761.5	783.8	801.0	806.1
60°	668.9	684.3	703.2	718.6	720.4
62.5°	596.9	603.7	620.9	634.6	636.3
65°	516.3	526.5	543.7	548.8	557.4
67.5°	442.5	449.4	463.1	469.9	476.8
70°	367.0	372.2	385.9	394.5	396.2
72.5°	301.9	303.6	313.9	320.7	322.4
75°	235.0	238.4	247.0	252.1	255.6
77.5°	178.4	181.8	188.7	192.1	192.1
80°	125.2	130.4	137.2	138.9	140.6
82.5°	80.6	87.5	92.6	94.3	90.9
85°	42.9	51.5	51.5	48.0	49.7
87.5°	15.4	18.9	20.6	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)