

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: P297157

Luminaire Tested: **D3X-WG-55L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297157  
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-55L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4874.0 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

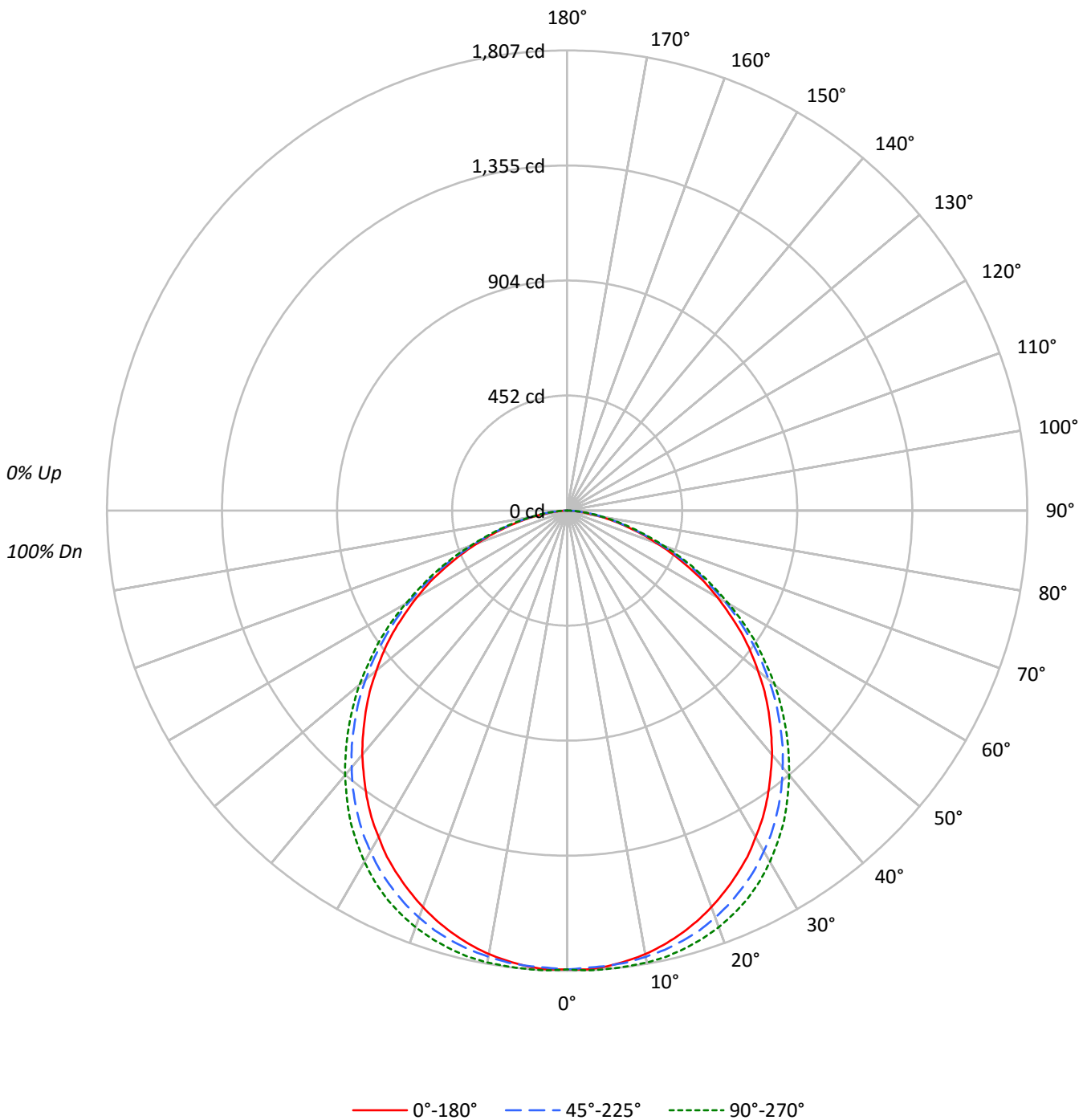
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2424	2424	2424
5°	2427	2424	2441
10°	2416	2431	2462
15°	2398	2437	2481
20°	2372	2435	2492
25°	2341	2424	2494
30°	2300	2401	2474
35°	2254	2366	2440
40°	2199	2312	2383
45°	2130	2246	2312
50°	2047	2164	2229
55°	1958	2056	2122
60°	1832	1926	1973
65°	1673	1762	1806
70°	1470	1545	1587
75°	1243	1307	1352
80°	988	1082	1110
85°	673	809	781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	3.5
10°-20°	494.3	10.1
20°-30°	751.1	15.4
30°-40°	896.3	18.4
40°-50°	905.2	18.6
50°-60°	779.9	16.0
60°-70°	543.7	11.2
70°-80°	269.4	5.5
80°-90°	62.8	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°	1416.6	29.1
0°-40°	2312.9	47.5
0°-60°	3998.1	82.0
0°-90°	4874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1797	1795	1795	1804	1807	171
15°	1722	1730	1749	1772	1781	486
25°	1577	1598	1632	1666	1680	726
35°	1372	1395	1440	1474	1486	858
45°	1119	1144	1180	1208	1215	863
55°	835	852	876	897	904	744
65°	526	536	554	559	567	522
75°	239	243	251	257	260	258
85°	44	52	52	49	51	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1803.6	1800.1	1796.6	1803.6	1807.1
5°	1796.6	1794.8	1794.8	1803.6	1807.1
7.5°	1784.4	1784.4	1789.6	1801.8	1805.3
10°	1768.6	1772.1	1779.1	1796.6	1801.8
12.5°	1747.7	1754.7	1766.9	1787.8	1794.8
15°	1721.5	1730.2	1749.4	1772.1	1780.9
17.5°	1691.8	1704.0	1728.5	1754.7	1763.4
20°	1656.9	1672.6	1700.5	1730.2	1740.7
22.5°	1618.5	1637.7	1669.1	1700.5	1712.8
25°	1576.6	1597.5	1632.5	1665.6	1679.6
27.5°	1532.9	1553.9	1592.3	1625.5	1639.4
30°	1480.6	1505.0	1545.2	1580.1	1592.3
32.5°	1429.9	1454.4	1496.3	1527.7	1539.9
35°	1372.3	1395.0	1440.4	1473.6	1485.8
37.5°	1311.2	1337.4	1381.0	1410.7	1421.2
40°	1251.8	1274.5	1316.4	1346.1	1356.6
42.5°	1185.5	1209.9	1251.8	1278.0	1286.8
45°	1119.2	1143.6	1180.3	1208.2	1215.2
47.5°	1051.1	1073.8	1110.4	1133.1	1140.1
50°	977.7	998.7	1033.6	1056.3	1065.0
52.5°	907.9	927.1	956.8	976.0	981.2
55°	834.6	852.0	876.5	897.4	904.4
57.5°	756.0	775.2	797.9	815.4	820.6
60°	680.9	696.6	715.8	731.6	733.3
62.5°	607.6	614.6	632.0	646.0	647.7
65°	525.5	536.0	553.5	558.7	567.4
67.5°	450.5	457.4	471.4	478.4	485.4
70°	373.6	378.9	392.8	401.6	403.3
72.5°	307.3	309.0	319.5	326.5	328.2
75°	239.2	242.7	251.4	256.7	260.1
77.5°	181.6	185.1	192.1	195.5	195.5
80°	127.5	132.7	139.7	141.4	143.2
82.5°	82.1	89.0	94.3	96.0	92.5
85°	43.6	52.4	52.4	48.9	50.6
87.5°	15.7	19.2	21.0	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)