

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: P297434

Luminaire Tested: **D3X-WO-55L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-55L93050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4317.0 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

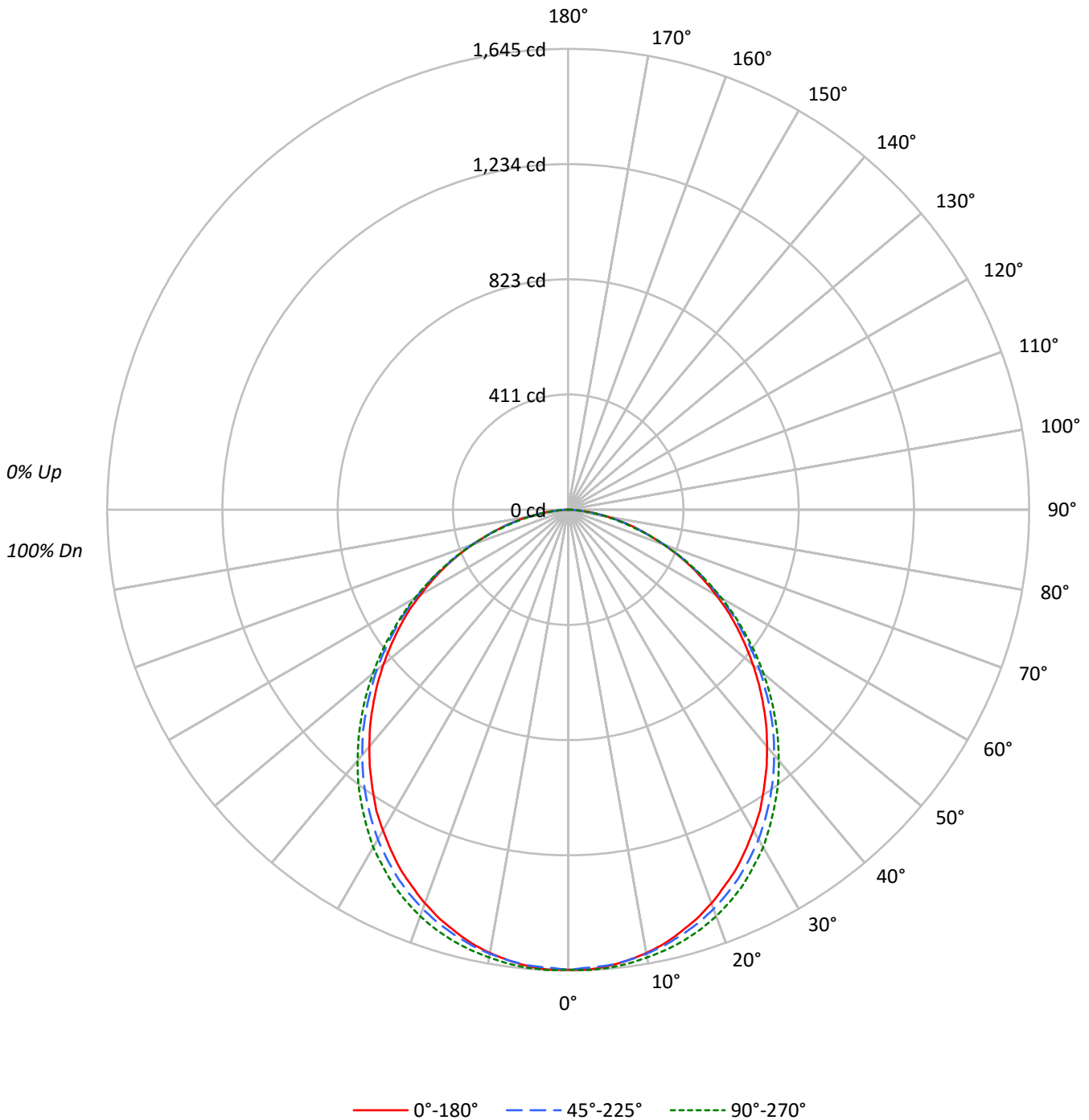
Input Watts (W): 39.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2209	2209	2209
5°	2210	2206	2217
10°	2195	2199	2217
15°	2171	2188	2218
20°	2141	2172	2211
25°	2103	2146	2193
30°	2054	2110	2162
35°	1999	2064	2111
40°	1939	2008	2054
45°	1873	1943	1984
50°	1802	1869	1903
55°	1726	1781	1808
60°	1640	1683	1702
65°	1546	1570	1579
70°	1419	1436	1419
75°	1278	1270	1232
80°	1082	1071	1037
85°	809	786	696



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.4	3.6
10°-20°	444.1	10.3
20°-30°	665.8	15.4
30°-40°	784.1	18.2
40°-50°	784.2	18.2
50°-60°	676.6	15.7
60°-70°	486.9	11.3
70°-80°	258.3	6.0
80°-90°	61.6	1.4
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°	1265.3	29.3
0°-40°	2049.4	47.5
0°-60°	3510.2	81.3
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1636	1635	1633	1639	1642	155
15°	1559	1563	1571	1587	1592	440
25°	1416	1425	1446	1470	1478	652
35°	1217	1232	1256	1278	1286	761
45°	984	998	1021	1038	1043	759
55°	736	743	759	772	771	659
65°	486	487	493	496	496	480
75°	246	243	244	238	237	261
85°	52	52	51	46	45	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1643.3	1640.4	1636.0	1641.8	1644.7
5°	1636.0	1634.6	1633.1	1638.9	1641.8
7.5°	1622.9	1624.4	1622.9	1631.7	1634.6
10°	1606.9	1608.4	1609.8	1620.0	1622.9
12.5°	1586.6	1588.0	1592.4	1605.5	1609.8
15°	1558.9	1563.3	1570.6	1586.6	1592.4
17.5°	1529.9	1535.7	1545.9	1564.8	1570.6
20°	1495.0	1502.2	1516.8	1537.1	1544.4
22.5°	1455.7	1463.0	1483.3	1505.1	1512.4
25°	1416.4	1425.2	1445.5	1470.2	1477.5
27.5°	1369.9	1381.5	1403.3	1428.1	1433.9
30°	1321.9	1332.1	1358.3	1381.5	1391.7
32.5°	1273.9	1284.1	1308.8	1332.1	1339.4
35°	1217.2	1231.7	1256.5	1278.3	1285.5
37.5°	1161.9	1175.0	1201.2	1223.0	1230.3
40°	1103.8	1115.4	1143.0	1163.4	1169.2
42.5°	1045.6	1057.2	1084.9	1100.9	1106.7
45°	984.5	997.6	1020.9	1038.3	1042.7
47.5°	923.4	933.6	955.4	971.4	977.2
50°	860.9	871.1	892.9	906.0	908.9
52.5°	798.4	805.6	826.0	837.6	842.0
55°	735.8	743.1	759.1	772.2	770.7
57.5°	676.2	679.1	695.1	703.9	703.9
60°	609.3	612.2	625.3	631.1	632.6
62.5°	546.8	551.2	561.3	562.8	562.8
65°	485.7	487.2	493.0	495.9	495.9
67.5°	424.6	423.2	429.0	429.0	427.5
70°	360.7	363.6	365.0	362.1	360.7
72.5°	302.5	301.0	301.0	299.6	299.6
75°	245.8	242.9	244.3	238.5	237.0
77.5°	193.4	189.1	187.6	184.7	181.8
80°	139.6	139.6	138.2	135.2	133.8
82.5°	93.1	93.1	91.6	88.7	85.8
85°	52.4	52.4	50.9	46.5	45.1
87.5°	17.5	17.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)