

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: P297435

Luminaire Tested: **D3X-WO-55L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297435  
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-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4717.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

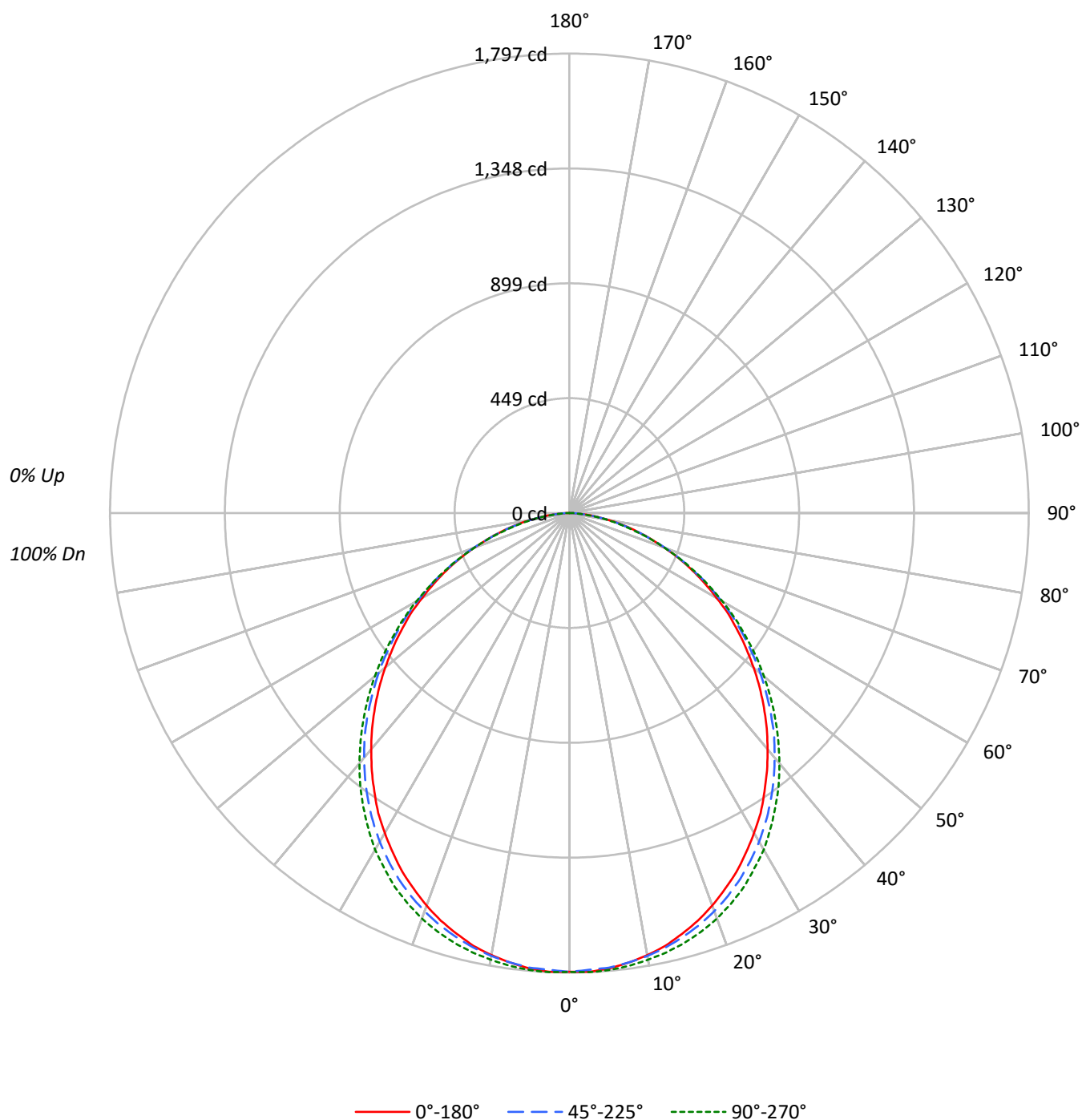
Input Watts (W): 39.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	100	97	107	102	99	95		98	95	92		94	92	89		91	89	87
2	100	92	85	79	97	90	84	78		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	60	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

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

	0°	45°	90°
0°	2414	2414	2414
5°	2414	2410	2423
10°	2399	2403	2423
15°	2373	2390	2424
20°	2339	2373	2416
25°	2298	2345	2397
30°	2244	2306	2363
35°	2185	2255	2307
40°	2118	2194	2244
45°	2047	2123	2168
50°	1969	2042	2079
55°	1886	1946	1976
60°	1792	1839	1860
65°	1690	1715	1725
70°	1550	1569	1550
75°	1396	1387	1346
80°	1182	1170	1133
85°	883	858	761



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	3.6
10°-20°	485.2	10.3
20°-30°	727.5	15.4
30°-40°	856.7	18.2
40°-50°	856.9	18.2
50°-60°	739.3	15.7
60°-70°	532.0	11.3
70°-80°	282.2	6.0
80°-90°	67.3	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°	1382.5	29.3
0°-40°	2239.3	47.5
0°-60°	3835.5	81.3
0°-90°	4717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1794	1794	1794	1794	1794	
5°	1788	1786	1784	1791	1794	170
15°	1703	1708	1716	1734	1740	480
25°	1548	1557	1579	1606	1614	712
35°	1330	1346	1373	1397	1405	832
45°	1076	1090	1116	1134	1139	830
55°	804	812	829	844	842	720
65°	531	532	539	542	542	525
75°	268	265	267	261	259	286
85°	57	57	56	51	49	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1795.6	1792.4	1787.6	1794.0	1797.1
5°	1787.6	1786.0	1784.4	1790.8	1794.0
7.5°	1773.3	1774.9	1773.3	1782.8	1786.0
10°	1755.8	1757.4	1759.0	1770.1	1773.3
12.5°	1733.6	1735.2	1739.9	1754.2	1759.0
15°	1703.4	1708.2	1716.1	1733.6	1739.9
17.5°	1671.6	1678.0	1689.1	1709.7	1716.1
20°	1633.5	1641.4	1657.3	1679.6	1687.5
22.5°	1590.6	1598.5	1620.8	1644.6	1652.5
25°	1547.7	1557.2	1579.4	1606.5	1614.4
27.5°	1496.8	1509.5	1533.4	1560.4	1566.7
30°	1444.4	1455.5	1484.1	1509.5	1520.7
32.5°	1391.9	1403.1	1430.1	1455.5	1463.5
35°	1330.0	1345.9	1372.9	1396.7	1404.7
37.5°	1269.6	1283.9	1312.5	1336.3	1344.3
40°	1206.0	1218.8	1248.9	1271.2	1277.5
42.5°	1142.5	1155.2	1185.4	1202.9	1209.2
45°	1075.7	1090.0	1115.5	1134.5	1139.3
47.5°	1009.0	1020.1	1044.0	1061.4	1067.8
50°	940.7	951.8	975.6	989.9	993.1
52.5°	872.4	880.3	902.5	915.3	920.0
55°	804.0	812.0	829.4	843.8	842.2
57.5°	738.9	742.1	759.5	769.1	769.1
60°	665.8	669.0	683.3	689.6	691.2
62.5°	597.5	602.2	613.3	614.9	614.9
65°	530.7	532.3	538.7	541.8	541.8
67.5°	464.0	462.4	468.8	468.8	467.2
70°	394.1	397.2	398.8	395.7	394.1
72.5°	330.5	328.9	328.9	327.3	327.3
75°	268.5	265.4	266.9	260.6	259.0
77.5°	211.3	206.6	205.0	201.8	198.6
80°	152.5	152.5	151.0	147.8	146.2
82.5°	101.7	101.7	100.1	96.9	93.8
85°	57.2	57.2	55.6	50.8	49.3
87.5°	19.1	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)