

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: P296736

Luminaire Tested: **D3X-WD-55L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-55L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5469.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

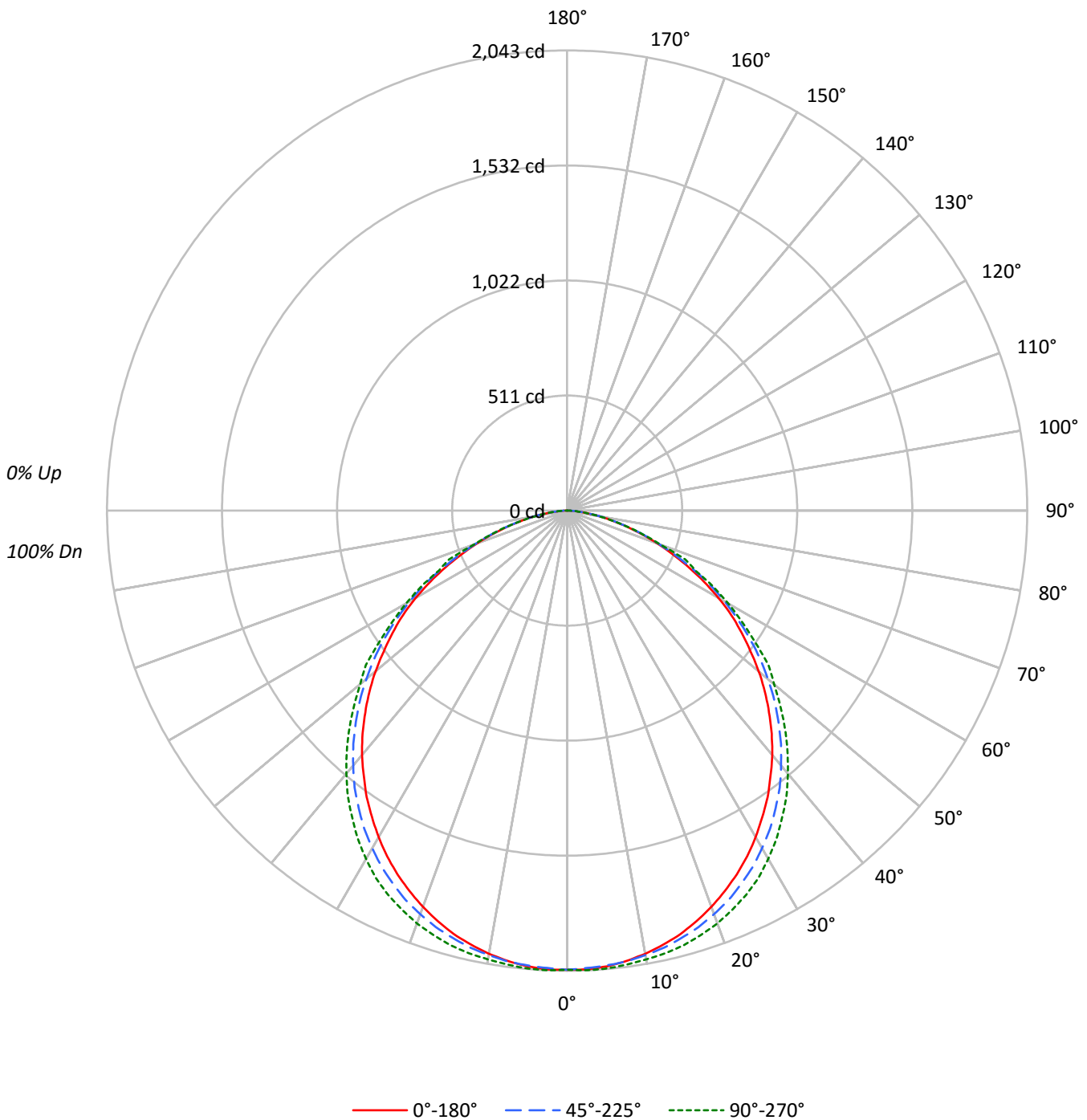
Input Watts (W): 39.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2743	2743	2743
5°	2743	2738	2756
10°	2729	2737	2764
15°	2712	2736	2783
20°	2680	2731	2793
25°	2645	2715	2794
30°	2600	2689	2774
35°	2550	2649	2733
40°	2488	2595	2678
45°	2412	2524	2602
50°	2325	2436	2510
55°	2219	2320	2389
60°	2091	2170	2223
65°	1899	1962	1999
70°	1668	1706	1729
75°	1408	1428	1438
80°	1125	1141	1110
85°	758	787	758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	3.5
10°-20°	555.6	10.2
20°-30°	843.1	15.4
30°-40°	1006.5	18.4
40°-50°	1019.0	18.6
50°-60°	880.8	16.1
60°-70°	610.5	11.2
70°-80°	295.4	5.4
80°-90°	64.9	1.2
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°	1591.9	29.1
0°-40°	2598.4	47.5
0°-60°	4498.2	82.2
0°-90°	5469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5469.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2039	2039	2039	2039	2039	
5°	2031	2029	2027	2037	2041	193
15°	1947	1950	1964	1988	1998	549
25°	1782	1794	1829	1866	1882	821
35°	1552	1566	1613	1654	1664	970
45°	1268	1285	1326	1360	1368	978
55°	946	956	989	1030	1018	845
65°	596	602	616	626	628	590
75°	271	273	275	273	277	291
85°	49	53	51	49	49	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2038.8	2038.8	2038.8	2038.8	2038.8
2.5°	2038.8	2036.8	2032.9	2038.8	2042.7
5°	2031.0	2029.0	2027.0	2036.8	2040.8
7.5°	2017.2	2017.2	2019.2	2029.0	2032.9
10°	1997.6	1999.6	2003.5	2019.2	2023.1
12.5°	1974.0	1978.0	1987.8	2005.4	2013.3
15°	1946.6	1950.5	1964.2	1987.8	1997.6
17.5°	1911.3	1919.1	1938.7	1966.2	1976.0
20°	1872.0	1881.8	1907.3	1938.7	1950.5
22.5°	1828.8	1838.7	1872.0	1905.4	1917.1
25°	1781.7	1793.5	1828.8	1866.1	1881.8
27.5°	1730.7	1744.5	1783.7	1823.0	1838.7
30°	1673.8	1689.5	1730.7	1771.9	1785.7
32.5°	1613.0	1628.7	1675.8	1715.0	1728.8
35°	1552.2	1565.9	1613.0	1654.2	1664.0
37.5°	1483.5	1499.2	1550.2	1585.5	1599.3
40°	1416.8	1432.5	1477.6	1512.9	1524.7
42.5°	1344.2	1359.9	1405.0	1438.3	1448.2
45°	1267.6	1285.3	1326.5	1359.9	1367.7
47.5°	1191.1	1204.8	1248.0	1277.4	1283.3
50°	1110.6	1124.4	1163.6	1193.1	1199.0
52.5°	1026.3	1047.9	1079.3	1100.8	1126.3
55°	945.8	955.6	989.0	1030.2	1018.4
57.5°	865.4	871.3	898.7	916.4	920.3
60°	777.1	784.9	806.5	816.3	826.1
62.5°	684.8	690.7	716.2	726.0	730.0
65°	596.5	602.4	616.2	626.0	627.9
67.5°	506.3	512.2	523.9	531.8	567.1
70°	423.9	427.8	433.7	449.4	439.5
72.5°	345.4	347.3	353.2	353.2	355.2
75°	270.8	272.8	274.7	272.8	276.7
77.5°	202.1	206.0	208.0	206.0	204.1
80°	145.2	149.1	147.2	143.2	143.2
82.5°	94.2	96.2	94.2	92.2	92.2
85°	49.1	53.0	51.0	49.1	49.1
87.5°	17.7	19.6	21.6	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)