

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: P297015

Luminaire Tested: **D3X-WG-55L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297015  
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-55L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5218.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

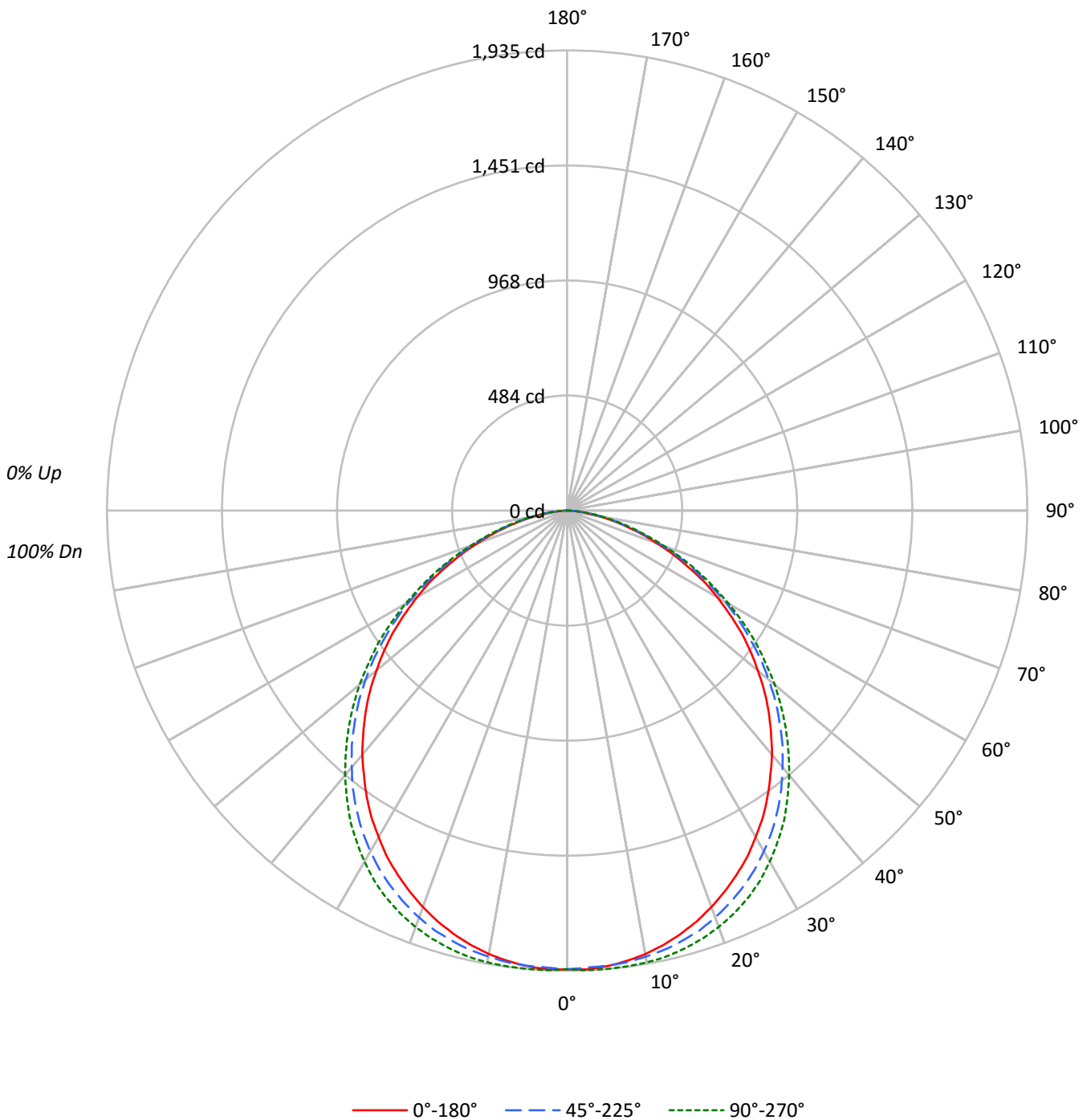
Input Watts (W): 38.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2595	2595	2595
5°	2598	2595	2613
10°	2587	2602	2635
15°	2567	2609	2656
20°	2540	2607	2668
25°	2506	2595	2669
30°	2463	2570	2648
35°	2413	2533	2613
40°	2354	2475	2551
45°	2280	2404	2475
50°	2191	2316	2387
55°	2096	2201	2271
60°	1962	2062	2113
65°	1791	1886	1934
70°	1574	1655	1699
75°	1331	1399	1448
80°	1057	1158	1188
85°	721	866	837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	3.5
10°-20°	529.2	10.1
20°-30°	804.2	15.4
30°-40°	959.6	18.4
40°-50°	969.1	18.6
50°-60°	835.0	16.0
60°-70°	582.1	11.2
70°-80°	288.4	5.5
80°-90°	67.3	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°	1516.6	29.1
0°-40°	2476.2	47.5
0°-60°	4280.2	82.0
0°-90°	5218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1923	1922	1922	1931	1935	183
15°	1843	1852	1873	1897	1907	520
25°	1688	1710	1748	1783	1798	778
35°	1469	1494	1542	1578	1591	918
45°	1198	1224	1264	1294	1301	924
55°	894	912	938	961	968	796
65°	563	574	592	598	608	559
75°	256	260	269	275	278	276
85°	47	56	56	52	54	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1929.0	1929.0	1929.0	1929.0	1929.0
2.5°	1930.9	1927.1	1923.4	1930.9	1934.6
5°	1923.4	1921.5	1921.5	1930.9	1934.6
7.5°	1910.3	1910.3	1915.9	1929.0	1932.7
10°	1893.5	1897.2	1904.7	1923.4	1929.0
12.5°	1871.0	1878.5	1891.6	1914.0	1921.5
15°	1843.0	1852.3	1872.9	1897.2	1906.6
17.5°	1811.2	1824.3	1850.5	1878.5	1887.9
20°	1773.8	1790.7	1820.6	1852.3	1863.6
22.5°	1732.7	1753.3	1786.9	1820.6	1833.7
25°	1687.9	1710.3	1747.7	1783.2	1798.1
27.5°	1641.1	1663.6	1704.7	1740.2	1755.2
30°	1585.1	1611.2	1654.2	1691.6	1704.7
32.5°	1530.9	1557.0	1601.9	1635.5	1648.6
35°	1469.2	1493.5	1542.1	1577.6	1590.7
37.5°	1403.7	1431.8	1478.5	1510.3	1521.5
40°	1340.2	1364.5	1409.4	1441.1	1452.3
42.5°	1269.2	1295.3	1340.2	1368.2	1377.6
45°	1198.1	1224.3	1263.6	1293.5	1300.9
47.5°	1125.2	1149.5	1188.8	1213.1	1220.6
50°	1046.7	1069.2	1106.5	1130.8	1140.2
52.5°	972.0	992.5	1024.3	1044.9	1050.5
55°	893.5	912.2	938.3	960.8	968.2
57.5°	809.4	829.9	854.2	872.9	878.5
60°	729.0	745.8	766.4	783.2	785.1
62.5°	650.5	657.9	676.6	691.6	693.5
65°	562.6	573.8	592.5	598.1	607.5
67.5°	482.2	489.7	504.7	512.2	519.6
70°	400.0	405.6	420.6	429.9	431.8
72.5°	329.0	330.8	342.1	349.5	351.4
75°	256.1	259.8	269.2	274.8	278.5
77.5°	194.4	198.1	205.6	209.3	209.3
80°	136.4	142.1	149.5	151.4	153.3
82.5°	87.9	95.3	100.9	102.8	99.1
85°	46.7	56.1	56.1	52.3	54.2
87.5°	16.8	20.6	22.4	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)