

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: P297014

Luminaire Tested: **D3X-WG-55L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297014  
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-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4931.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

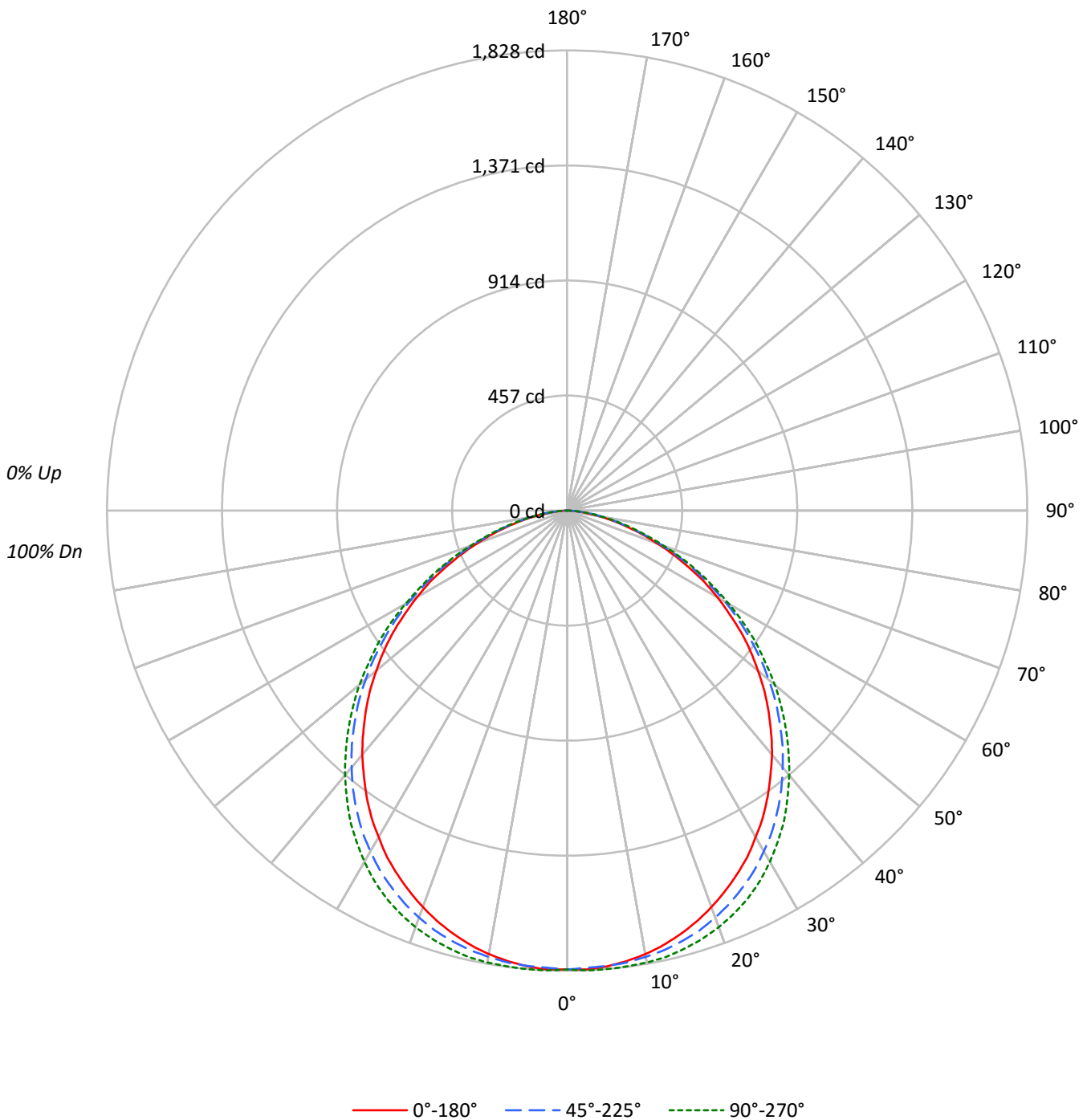
Input Watts (W): 38.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2453	2453	2453
5°	2455	2452	2469
10°	2445	2459	2491
15°	2426	2465	2510
20°	2400	2463	2522
25°	2368	2452	2523
30°	2327	2429	2503
35°	2281	2394	2469
40°	2224	2339	2411
45°	2154	2272	2339
50°	2071	2189	2255
55°	1981	2080	2146
60°	1854	1949	1996
65°	1693	1783	1828
70°	1487	1563	1605
75°	1258	1323	1368
80°	999	1095	1122
85°	682	818	790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	3.5
10°-20°	500.1	10.1
20°-30°	759.9	15.4
30°-40°	906.8	18.4
40°-50°	915.8	18.6
50°-60°	789.0	16.0
60°-70°	550.0	11.2
70°-80°	272.6	5.5
80°-90°	63.6	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°	1433.2	29.1
0°-40°	2340.0	47.5
0°-60°	4044.8	82.0
0°-90°	4931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4931.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1823	1823	1823	1823	1823	
5°	1818	1816	1816	1825	1828	173
15°	1742	1750	1770	1793	1802	491
25°	1595	1616	1652	1685	1699	735
35°	1388	1411	1457	1491	1503	868
45°	1132	1157	1194	1222	1229	873
55°	844	862	887	908	915	753
65°	532	542	560	565	574	528
75°	242	246	254	260	263	261
85°	44	53	53	50	51	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1822.9	1822.9	1822.9	1822.9	1822.9
2.5°	1824.7	1821.1	1817.6	1824.7	1828.2
5°	1817.6	1815.8	1815.8	1824.7	1828.2
7.5°	1805.2	1805.2	1810.5	1822.9	1826.4
10°	1789.3	1792.9	1799.9	1817.6	1822.9
12.5°	1768.1	1775.2	1787.6	1808.8	1815.8
15°	1741.6	1750.5	1769.9	1792.9	1801.7
17.5°	1711.6	1724.0	1748.7	1775.2	1784.0
20°	1676.3	1692.2	1720.4	1750.5	1761.1
22.5°	1637.4	1656.8	1688.6	1720.4	1732.8
25°	1595.0	1616.2	1651.5	1685.1	1699.2
27.5°	1550.9	1572.1	1610.9	1644.5	1658.6
30°	1497.9	1522.6	1563.2	1598.6	1610.9
32.5°	1446.7	1471.4	1513.8	1545.6	1557.9
35°	1388.4	1411.3	1457.2	1490.8	1503.2
37.5°	1326.5	1353.0	1397.2	1427.2	1437.8
40°	1266.5	1289.4	1331.8	1361.9	1372.5
42.5°	1199.4	1224.1	1266.5	1293.0	1301.8
45°	1132.2	1157.0	1194.1	1222.3	1229.4
47.5°	1063.4	1086.3	1123.4	1146.4	1153.4
50°	989.2	1010.4	1045.7	1068.6	1077.5
52.5°	918.5	937.9	968.0	987.4	992.7
55°	844.3	862.0	886.7	907.9	915.0
57.5°	764.8	784.3	807.2	824.9	830.2
60°	688.9	704.8	724.2	740.1	741.9
62.5°	614.7	621.8	639.4	653.6	655.3
65°	531.7	542.3	559.9	565.2	574.1
67.5°	455.7	462.8	476.9	484.0	491.0
70°	378.0	383.3	397.4	406.3	408.0
72.5°	310.9	312.6	323.2	330.3	332.1
75°	242.0	245.5	254.4	259.7	263.2
77.5°	183.7	187.2	194.3	197.8	197.8
80°	128.9	134.2	141.3	143.1	144.8
82.5°	83.0	90.1	95.4	97.1	93.6
85°	44.2	53.0	53.0	49.5	51.2
87.5°	15.9	19.4	21.2	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)