

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: P296749

Luminaire Tested: **D3X-WD-74L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296749  
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-74L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6594.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 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

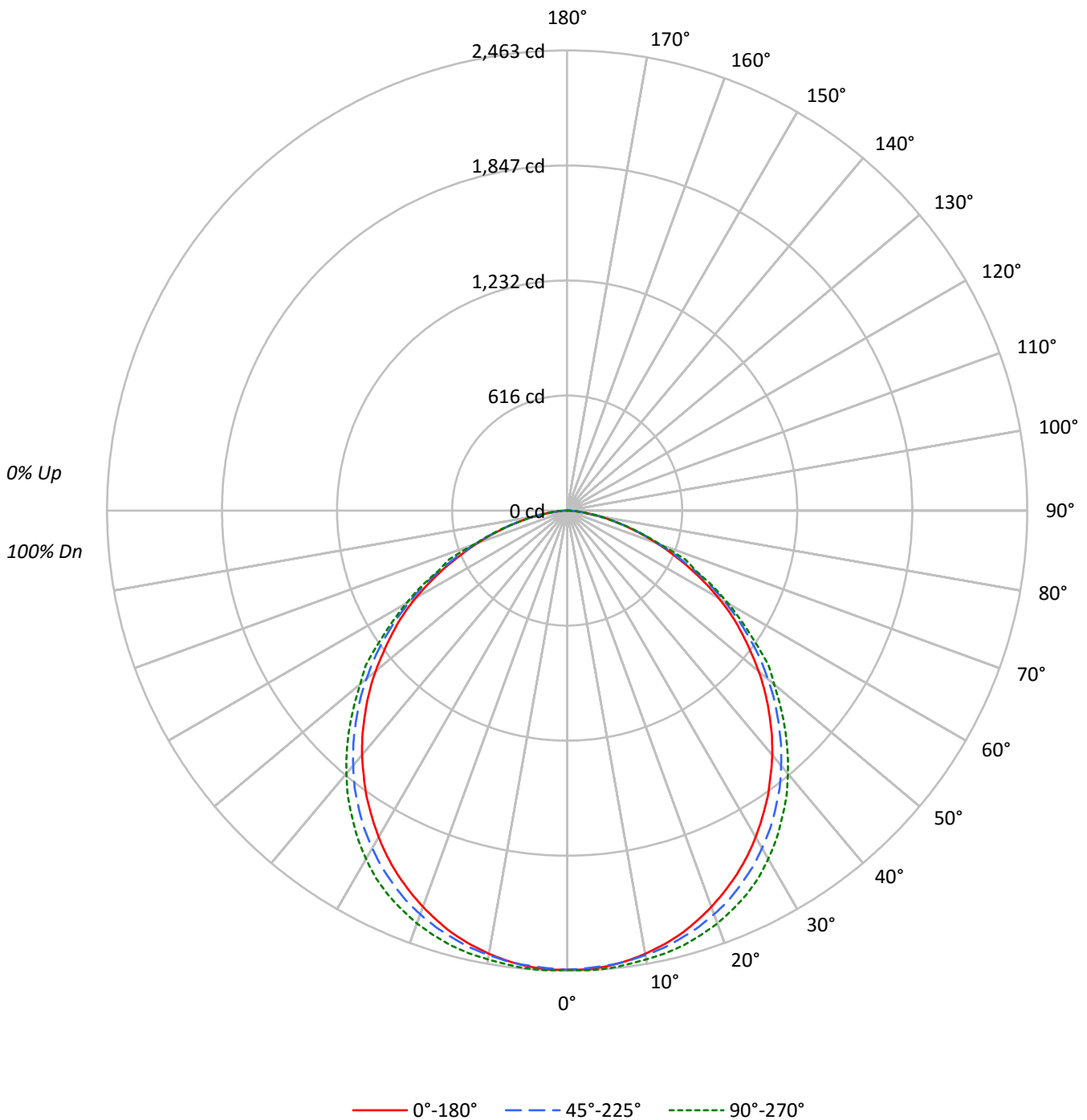
Input Watts (W): 55  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3307	3307	3307
5°	3307	3301	3323
10°	3291	3300	3333
15°	3269	3299	3355
20°	3232	3293	3367
25°	3189	3274	3368
30°	3135	3242	3345
35°	3074	3194	3295
40°	3000	3129	3229
45°	2908	3043	3138
50°	2803	2937	3026
55°	2675	2797	2880
60°	2521	2617	2680
65°	2290	2365	2410
70°	2010	2057	2085
75°	1697	1722	1734
80°	1357	1375	1338
85°	912	949	912



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.0	3.5
10°-20°	669.9	10.2
20°-30°	1016.5	15.4
30°-40°	1213.6	18.4
40°-50°	1228.6	18.6
50°-60°	1062.0	16.1
60°-70°	736.1	11.2
70°-80°	356.1	5.4
80°-90°	78.3	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°	1919.4	29.1
0°-40°	3132.9	47.5
0°-60°	5423.5	82.2
0°-90°	6594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2449	2446	2444	2456	2461	232
15°	2347	2352	2368	2397	2408	661
25°	2148	2162	2205	2250	2269	989
35°	1871	1888	1945	1994	2006	1169
45°	1528	1550	1599	1640	1649	1179
55°	1140	1152	1192	1242	1228	1019
65°	719	726	743	755	757	712
75°	326	329	331	329	334	350
85°	59	64	62	59	59	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2458.2	2458.2	2458.2	2458.2	2458.2
2.5°	2458.2	2455.8	2451.1	2458.2	2462.9
5°	2448.7	2446.4	2444.0	2455.8	2460.6
7.5°	2432.2	2432.2	2434.5	2446.4	2451.1
10°	2408.5	2410.9	2415.6	2434.5	2439.3
12.5°	2380.1	2384.9	2396.7	2418.0	2427.4
15°	2347.0	2351.7	2368.3	2396.7	2408.5
17.5°	2304.4	2313.9	2337.5	2370.7	2382.5
20°	2257.1	2268.9	2299.7	2337.5	2351.7
22.5°	2205.0	2216.9	2257.1	2297.3	2311.5
25°	2148.3	2162.5	2205.0	2250.0	2268.9
27.5°	2086.7	2103.3	2150.6	2197.9	2216.9
30°	2018.1	2037.1	2086.7	2136.4	2153.0
32.5°	1944.8	1963.7	2020.5	2067.8	2084.4
35°	1871.4	1888.0	1944.8	1994.5	2006.3
37.5°	1788.6	1807.6	1869.1	1911.7	1928.2
40°	1708.2	1727.1	1781.5	1824.1	1838.3
42.5°	1620.7	1639.6	1694.0	1734.2	1746.1
45°	1528.4	1549.7	1599.4	1639.6	1649.0
47.5°	1436.1	1452.7	1504.7	1540.2	1547.3
50°	1339.1	1355.7	1403.0	1438.5	1445.6
52.5°	1237.4	1263.4	1301.3	1327.3	1358.0
55°	1140.4	1152.2	1192.4	1242.1	1227.9
57.5°	1043.4	1050.5	1083.6	1104.9	1109.6
60°	936.9	946.4	972.4	984.2	996.1
62.5°	825.7	832.8	863.6	875.4	880.1
65°	719.2	726.3	742.9	754.7	757.1
67.5°	610.4	617.5	631.7	641.2	683.8
70°	511.0	515.8	522.9	541.8	530.0
72.5°	416.4	418.8	425.9	425.9	428.2
75°	326.5	328.9	331.2	328.9	333.6
77.5°	243.7	248.4	250.8	248.4	246.1
80°	175.1	179.8	177.4	172.7	172.7
82.5°	113.6	115.9	113.6	111.2	111.2
85°	59.1	63.9	61.5	59.1	59.1
87.5°	21.3	23.7	26.0	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)