

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: P297178

Luminaire Tested: **D3X-WG-80L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297178  
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-80L93050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7082.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

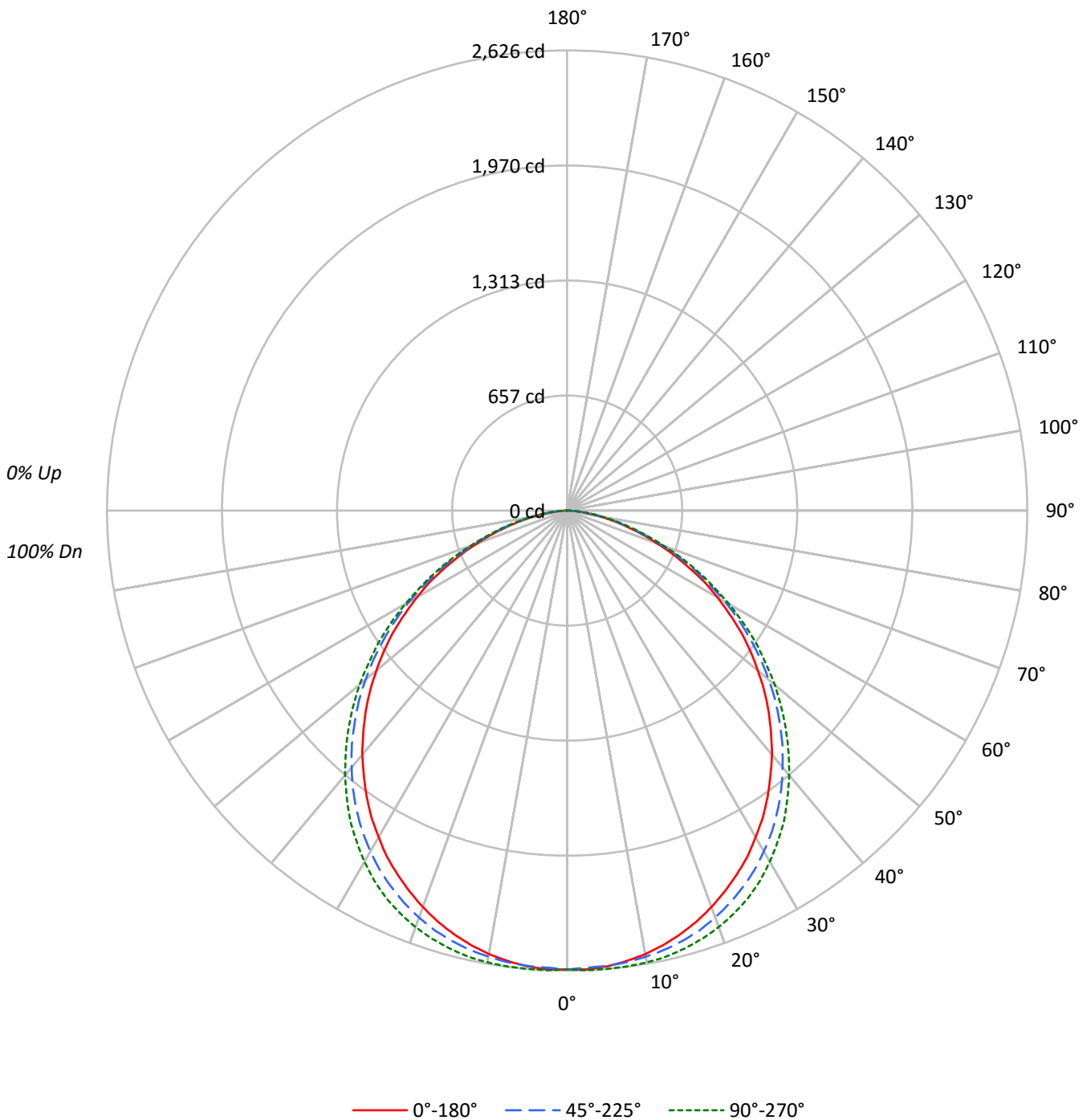
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26					26			

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

	0°	45°	90°
0°	3523	3523	3523
5°	3526	3522	3546
10°	3511	3532	3577
15°	3484	3541	3604
20°	3447	3538	3622
25°	3401	3521	3623
30°	3342	3488	3594
35°	3275	3438	3546
40°	3195	3360	3462
45°	3094	3263	3360
50°	2974	3144	3239
55°	2845	2987	3083
60°	2662	2799	2867
65°	2431	2560	2625
70°	2136	2245	2305
75°	1807	1899	1965
80°	1435	1573	1612
85°	979	1175	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.8	3.5
10°-20°	718.2	10.1
20°-30°	1091.4	15.4
30°-40°	1302.3	18.4
40°-50°	1315.3	18.6
50°-60°	1133.2	16.0
60°-70°	790.0	11.2
70°-80°	391.5	5.5
80°-90°	91.3	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°	2058.4	29.1
0°-40°	3360.7	47.5
0°-60°	5809.2	82.0
0°-90°	7082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2618	2618	2618	2618	2618	
5°	2610	2608	2608	2621	2626	248
15°	2501	2514	2542	2575	2588	705
25°	2291	2321	2372	2420	2440	1055
35°	1994	2027	2093	2141	2159	1246
45°	1626	1662	1715	1756	1766	1253
55°	1213	1238	1274	1304	1314	1081
65°	764	779	804	812	824	758
75°	348	353	365	373	378	375
85°	63	76	76	71	74	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2618.1	2618.1	2618.1	2618.1	2618.1
2.5°	2620.6	2615.5	2610.5	2620.6	2625.7
5°	2610.5	2607.9	2607.9	2620.6	2625.7
7.5°	2592.7	2592.7	2600.3	2618.1	2623.1
10°	2569.9	2574.9	2585.1	2610.5	2618.1
12.5°	2539.4	2549.6	2567.3	2597.8	2607.9
15°	2501.4	2514.1	2542.0	2574.9	2587.6
17.5°	2458.2	2476.0	2511.5	2549.6	2562.3
20°	2407.5	2430.3	2470.9	2514.1	2529.3
22.5°	2351.7	2379.6	2425.3	2470.9	2488.7
25°	2290.8	2321.2	2372.0	2420.2	2440.5
27.5°	2227.4	2257.8	2313.6	2361.8	2382.1
30°	2151.3	2186.8	2245.1	2295.9	2313.6
32.5°	2077.7	2113.2	2174.1	2219.8	2237.5
35°	1994.0	2027.0	2092.9	2141.1	2158.9
37.5°	1905.2	1943.3	2006.7	2049.8	2065.0
40°	1818.9	1851.9	1912.8	1955.9	1971.2
42.5°	1722.5	1758.1	1818.9	1857.0	1869.7
45°	1626.1	1661.7	1714.9	1755.5	1765.7
47.5°	1527.2	1560.2	1613.5	1646.4	1656.6
50°	1420.7	1451.1	1501.8	1534.8	1547.5
52.5°	1319.2	1347.1	1390.2	1418.1	1425.7
55°	1212.6	1238.0	1273.5	1304.0	1314.1
57.5°	1098.5	1126.4	1159.4	1184.7	1192.3
60°	989.4	1012.2	1040.1	1063.0	1065.5
62.5°	882.8	893.0	918.4	938.6	941.2
65°	763.6	778.8	804.2	811.8	824.5
67.5°	654.5	664.7	685.0	695.1	705.3
70°	542.9	550.5	570.8	583.5	586.0
72.5°	446.5	449.0	464.2	474.4	476.9
75°	347.6	352.6	365.3	372.9	378.0
77.5°	263.8	268.9	279.1	284.1	284.1
80°	185.2	192.8	203.0	205.5	208.0
82.5°	119.2	129.4	137.0	139.5	134.5
85°	63.4	76.1	76.1	71.0	73.6
87.5°	22.8	27.9	30.4	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)