

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: P296744

Luminaire Tested: **D3X-WD-67L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296744  
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-67L83050-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: 5941.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

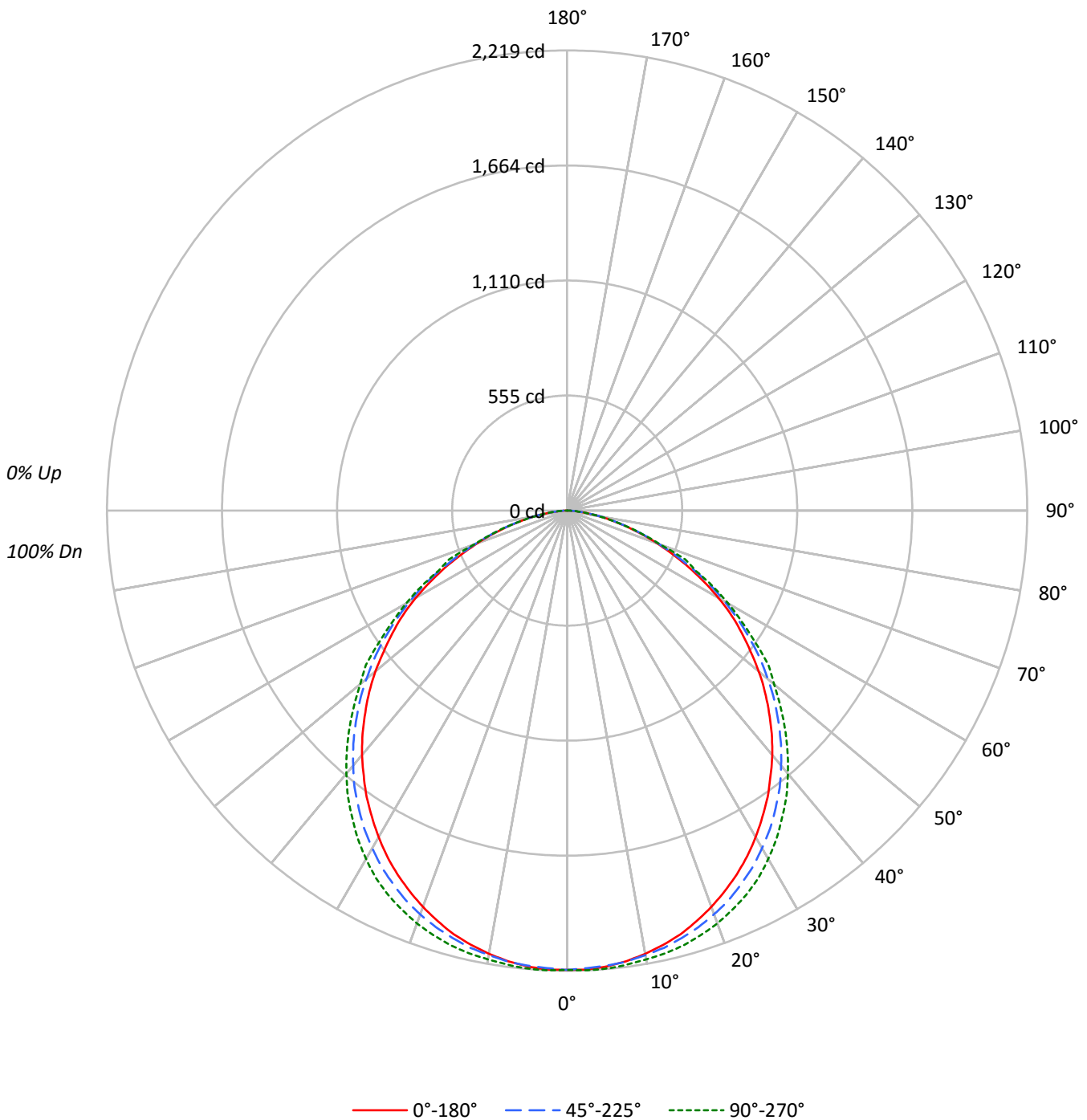
Input Watts (W): 48.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2980	2980	2980
5°	2980	2974	2994
10°	2965	2973	3003
15°	2946	2972	3023
20°	2912	2967	3034
25°	2873	2949	3035
30°	2825	2921	3014
35°	2769	2878	2969
40°	2703	2819	2909
45°	2620	2742	2827
50°	2525	2646	2726
55°	2410	2520	2595
60°	2271	2358	2415
65°	2063	2131	2172
70°	1811	1853	1878
75°	1529	1551	1563
80°	1222	1239	1206
85°	823	855	823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.9	3.5
10°-20°	603.6	10.2
20°-30°	915.8	15.4
30°-40°	1093.4	18.4
40°-50°	1106.9	18.6
50°-60°	956.8	16.1
60°-70°	663.2	11.2
70°-80°	320.9	5.4
80°-90°	70.5	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°	1729.3	29.1
0°-40°	2822.7	47.5
0°-60°	4886.4	82.2
0°-90°	5941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5941.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2215	2215	2215	2215	2215	
5°	2206	2204	2202	2213	2217	209
15°	2115	2119	2134	2159	2170	596
25°	1936	1948	1987	2027	2044	891
35°	1686	1701	1752	1797	1808	1053
45°	1377	1396	1441	1477	1486	1062
55°	1027	1038	1074	1119	1106	918
65°	648	654	669	680	682	641
75°	294	296	298	296	301	316
85°	53	58	55	53	53	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2214.8	2214.8	2214.8	2214.8	2214.8
2.5°	2214.8	2212.6	2208.4	2214.8	2219.0
5°	2206.2	2204.1	2202.0	2212.6	2216.9
7.5°	2191.3	2191.3	2193.4	2204.1	2208.4
10°	2170.0	2172.1	2176.4	2193.4	2197.7
12.5°	2144.4	2148.7	2159.3	2178.5	2187.1
15°	2114.6	2118.8	2133.8	2159.3	2170.0
17.5°	2076.2	2084.7	2106.0	2135.9	2146.6
20°	2033.6	2044.2	2071.9	2106.0	2118.8
22.5°	1986.7	1997.3	2033.6	2069.8	2082.6
25°	1935.5	1948.3	1986.7	2027.2	2044.2
27.5°	1880.1	1895.0	1937.7	1980.3	1997.3
30°	1818.3	1835.3	1880.1	1924.9	1939.8
32.5°	1752.2	1769.3	1820.4	1863.0	1878.0
35°	1686.1	1701.0	1752.2	1797.0	1807.6
37.5°	1611.5	1628.6	1684.0	1722.4	1737.3
40°	1539.0	1556.1	1605.1	1643.5	1656.3
42.5°	1460.2	1477.2	1526.2	1562.5	1573.1
45°	1377.0	1396.2	1441.0	1477.2	1485.7
47.5°	1293.9	1308.8	1355.7	1387.7	1394.1
50°	1206.5	1221.4	1264.1	1296.0	1302.4
52.5°	1114.8	1138.3	1172.4	1195.8	1223.6
55°	1027.4	1038.1	1074.3	1119.1	1106.3
57.5°	940.0	946.4	976.3	995.5	999.7
60°	844.1	852.7	876.1	886.8	897.4
62.5°	743.9	750.3	778.0	788.7	793.0
65°	648.0	654.4	669.3	680.0	682.1
67.5°	550.0	556.4	569.1	577.7	616.0
70°	460.4	464.7	471.1	488.1	477.5
72.5°	375.2	377.3	383.7	383.7	385.8
75°	294.2	296.3	298.4	296.3	300.6
77.5°	219.6	223.8	226.0	223.8	221.7
80°	157.7	162.0	159.9	155.6	155.6
82.5°	102.3	104.4	102.3	100.2	100.2
85°	53.3	57.6	55.4	53.3	53.3
87.5°	19.2	21.3	23.4	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)