

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: P296740

Luminaire Tested: **D3X-WD-60L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296740  
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-60L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5655.0 lumens  
Efficiency: N/A  
Efficacy: 130.9 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

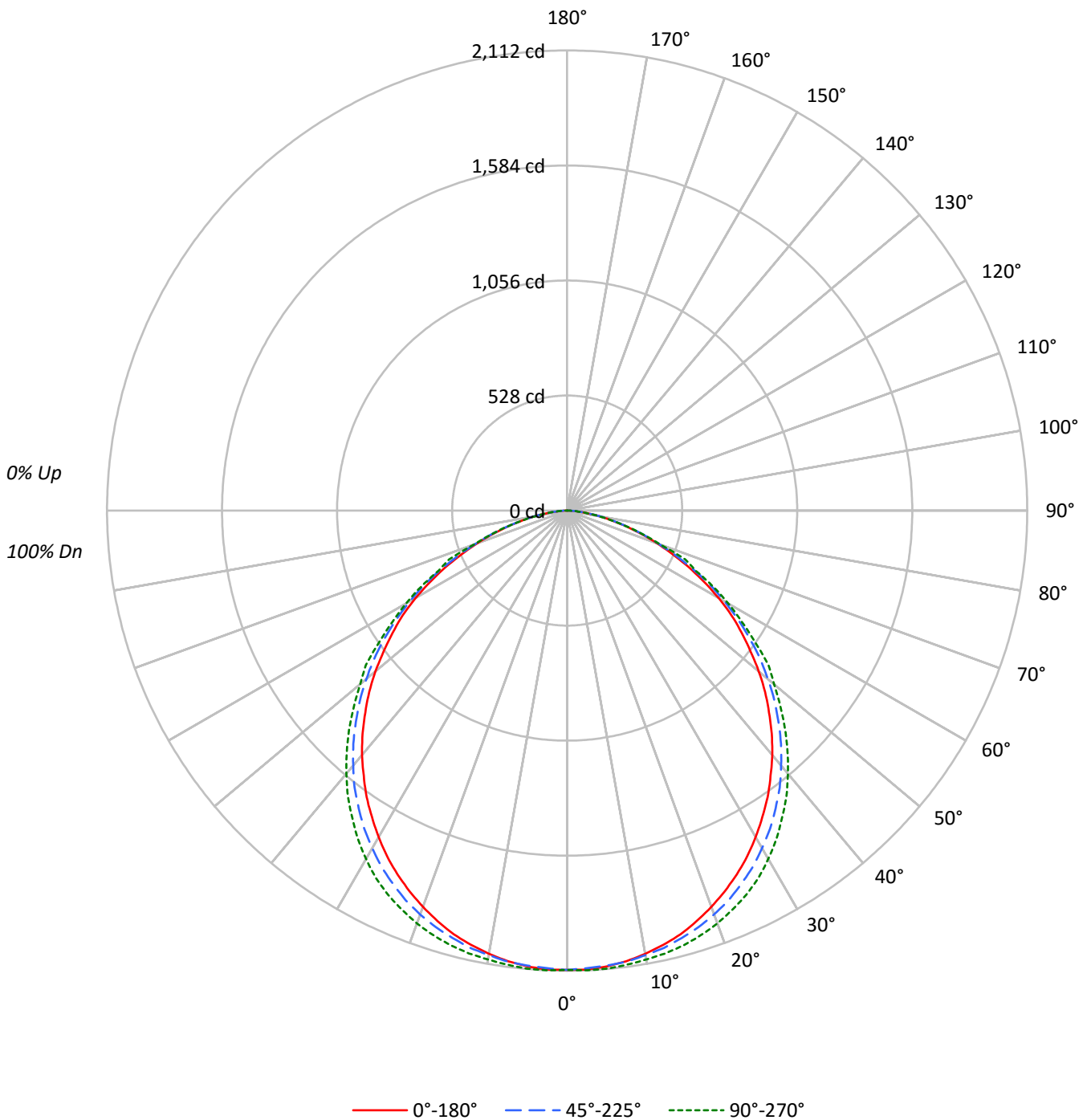
Input Watts (W): 43.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2836	2836	2836
5°	2836	2831	2850
10°	2822	2830	2858
15°	2804	2829	2877
20°	2772	2824	2888
25°	2735	2807	2889
30°	2689	2780	2869
35°	2636	2739	2826
40°	2573	2683	2769
45°	2494	2610	2691
50°	2404	2519	2595
55°	2294	2399	2470
60°	2162	2244	2299
65°	1964	2028	2067
70°	1724	1764	1788
75°	1456	1477	1487
80°	1163	1179	1148
85°	783	815	783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	3.5
10°-20°	574.5	10.2
20°-30°	871.7	15.4
30°-40°	1040.7	18.4
40°-50°	1053.6	18.6
50°-60°	910.7	16.1
60°-70°	631.2	11.2
70°-80°	305.4	5.4
80°-90°	67.1	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°	1646.1	29.1
0°-40°	2686.8	47.5
0°-60°	4651.2	82.2
0°-90°	5655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2100	2098	2096	2106	2110	199
15°	2013	2017	2031	2055	2066	567
25°	1842	1854	1891	1930	1946	848
35°	1605	1619	1668	1710	1721	1003
45°	1311	1329	1372	1406	1414	1011
55°	978	988	1023	1065	1053	874
65°	617	623	637	647	649	610
75°	280	282	284	282	286	300
85°	51	55	53	51	51	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2108.1	2108.1	2108.1	2108.1	2108.1
2.5°	2108.1	2106.1	2102.1	2108.1	2112.2
5°	2100.0	2098.0	2096.0	2106.1	2110.2
7.5°	2085.8	2085.8	2087.9	2098.0	2102.1
10°	2065.5	2067.6	2071.6	2087.9	2091.9
12.5°	2041.2	2045.2	2055.4	2073.7	2081.8
15°	2012.8	2016.8	2031.0	2055.4	2065.5
17.5°	1976.3	1984.4	2004.7	2033.1	2043.2
20°	1935.7	1945.8	1972.2	2004.7	2016.8
22.5°	1891.0	1901.2	1935.7	1970.2	1982.3
25°	1842.3	1854.5	1891.0	1929.6	1945.8
27.5°	1789.6	1803.8	1844.4	1885.0	1901.2
30°	1730.7	1747.0	1789.6	1832.2	1846.4
32.5°	1667.8	1684.1	1732.8	1773.4	1787.6
35°	1604.9	1619.2	1667.8	1710.5	1720.6
37.5°	1533.9	1550.2	1602.9	1639.4	1653.6
40°	1464.9	1481.2	1527.8	1564.4	1576.5
42.5°	1389.9	1406.1	1452.8	1487.3	1497.4
45°	1310.7	1329.0	1371.6	1406.1	1414.2
47.5°	1231.6	1245.8	1290.5	1320.9	1327.0
50°	1148.4	1162.6	1203.2	1233.6	1239.7
52.5°	1061.2	1083.5	1116.0	1138.3	1164.7
55°	978.0	988.1	1022.6	1065.2	1053.1
57.5°	894.8	900.9	929.3	947.5	951.6
60°	803.5	811.6	833.9	844.1	854.2
62.5°	708.1	714.2	740.6	750.7	754.8
65°	616.8	622.9	637.1	647.3	649.3
67.5°	523.5	529.6	541.7	549.9	586.4
70°	438.3	442.3	448.4	464.6	454.5
72.5°	357.1	359.1	365.2	365.2	367.3
75°	280.0	282.0	284.1	282.0	286.1
77.5°	209.0	213.0	215.1	213.0	211.0
80°	150.1	154.2	152.2	148.1	148.1
82.5°	97.4	99.4	97.4	95.4	95.4
85°	50.7	54.8	52.8	50.7	50.7
87.5°	18.3	20.3	22.3	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)