

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: P296737

Luminaire Tested: **D3X-WD-55L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296737  
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-55L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5521.0 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

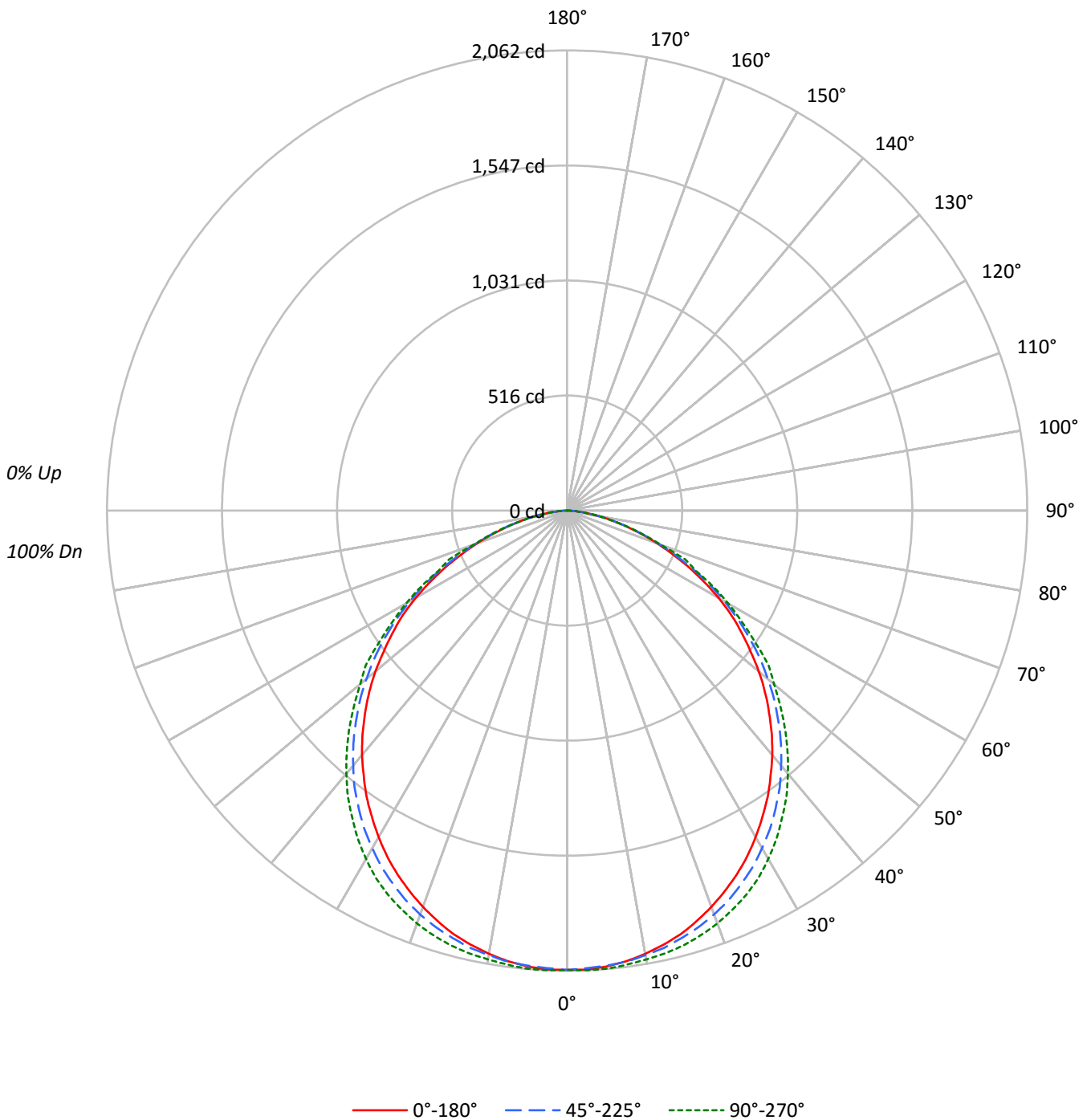
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
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	48	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	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2769	2769	2769
5°	2769	2764	2783
10°	2755	2763	2790
15°	2737	2762	2809
20°	2706	2757	2819
25°	2670	2741	2820
30°	2625	2715	2801
35°	2574	2675	2759
40°	2512	2620	2703
45°	2435	2548	2627
50°	2347	2459	2534
55°	2240	2342	2412
60°	2111	2191	2244
65°	1917	1980	2018
70°	1683	1722	1745
75°	1421	1442	1452
80°	1136	1151	1120
85°	764	795	764



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	3.5
10°-20°	560.9	10.2
20°-30°	851.1	15.4
30°-40°	1016.1	18.4
40°-50°	1028.7	18.6
50°-60°	889.2	16.1
60°-70°	616.3	11.2
70°-80°	298.2	5.4
80°-90°	65.6	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°	1607.1	29.1
0°-40°	2623.1	47.5
0°-60°	4541.0	82.2
0°-90°	5521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2050	2048	2046	2056	2060	195
15°	1965	1969	1983	2007	2017	554
25°	1799	1811	1846	1884	1900	828
35°	1567	1581	1628	1670	1680	979
45°	1280	1298	1339	1373	1381	987
55°	955	965	998	1040	1028	853
65°	602	608	622	632	634	596
75°	273	275	277	275	279	293
85°	50	54	52	50	50	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2058.2	2058.2	2058.2	2058.2	2058.2
2.5°	2058.2	2056.2	2052.2	2058.2	2062.2
5°	2050.3	2048.3	2046.3	2056.2	2060.2
7.5°	2036.4	2036.4	2038.4	2048.3	2052.2
10°	2016.6	2018.6	2022.5	2038.4	2042.3
12.5°	1992.8	1996.8	2006.7	2024.5	2032.4
15°	1965.1	1969.0	1982.9	2006.7	2016.6
17.5°	1929.4	1937.4	1957.2	1984.9	1994.8
20°	1889.8	1899.7	1925.5	1957.2	1969.0
22.5°	1846.2	1856.1	1889.8	1923.5	1935.4
25°	1798.7	1810.6	1846.2	1883.9	1899.7
27.5°	1747.2	1761.0	1800.7	1840.3	1856.1
30°	1689.7	1705.6	1747.2	1788.8	1802.6
32.5°	1628.3	1644.2	1691.7	1731.3	1745.2
35°	1566.9	1580.8	1628.3	1669.9	1679.8
37.5°	1497.6	1513.4	1564.9	1600.6	1614.5
40°	1430.2	1446.1	1491.6	1527.3	1539.2
42.5°	1356.9	1372.8	1418.3	1452.0	1461.9
45°	1279.7	1297.5	1339.1	1372.8	1380.7
47.5°	1202.4	1216.3	1259.9	1289.6	1295.5
50°	1121.2	1135.1	1174.7	1204.4	1210.4
52.5°	1036.0	1057.8	1089.5	1111.3	1137.1
55°	954.8	964.7	998.4	1040.0	1028.1
57.5°	873.6	879.5	907.3	925.1	929.1
60°	784.4	792.4	814.2	824.1	834.0
62.5°	691.3	697.3	723.0	732.9	736.9
65°	602.2	608.1	622.0	631.9	633.9
67.5°	511.1	517.0	528.9	536.8	572.5
70°	427.9	431.8	437.8	453.6	443.7
72.5°	348.6	350.6	356.6	356.6	358.5
75°	273.4	275.3	277.3	275.3	279.3
77.5°	204.0	208.0	210.0	208.0	206.0
80°	146.6	150.6	148.6	144.6	144.6
82.5°	95.1	97.1	95.1	93.1	93.1
85°	49.5	53.5	51.5	49.5	49.5
87.5°	17.8	19.8	21.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)