

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: P297296

Luminaire Tested: **D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-55L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5826.0 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

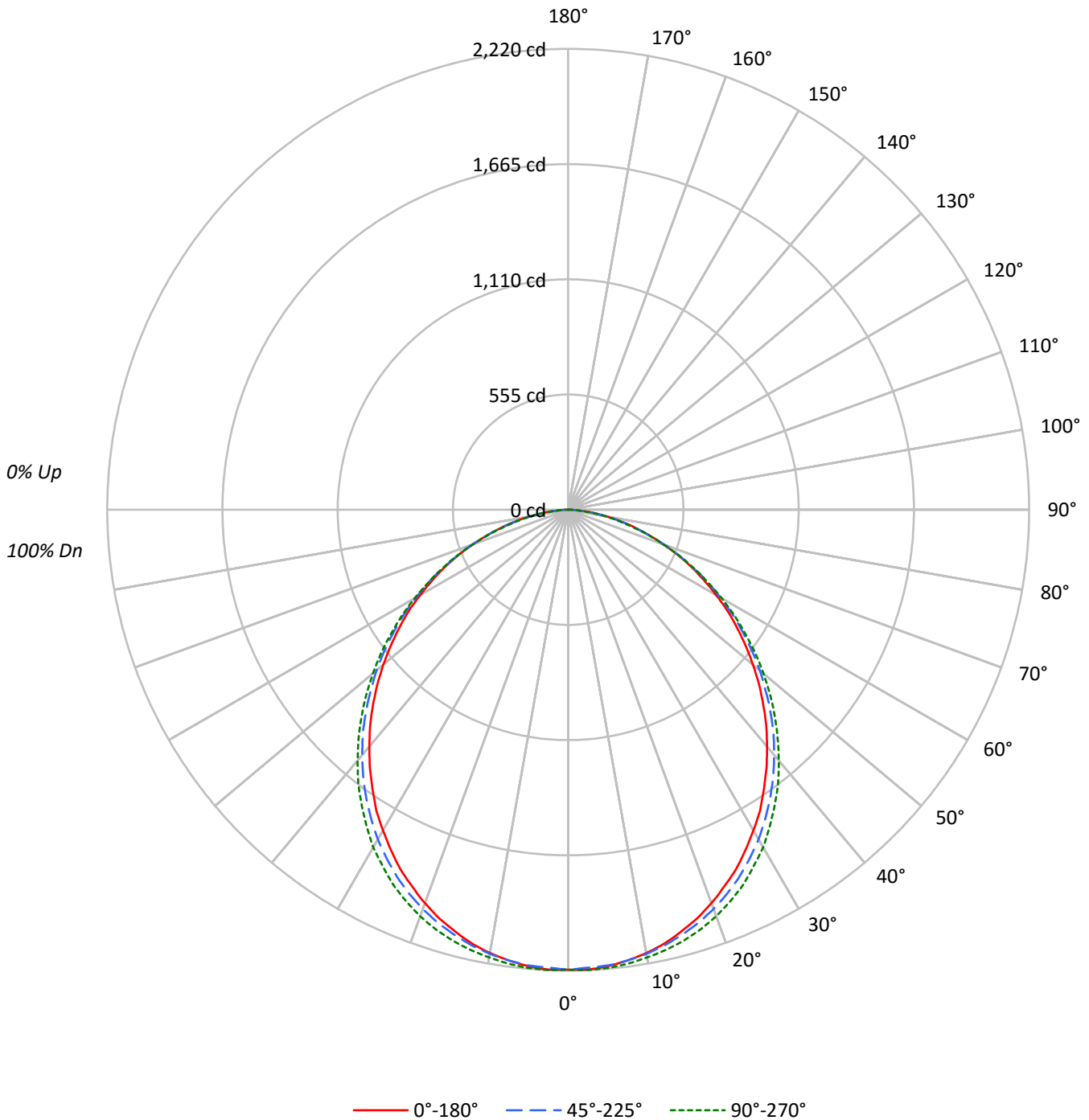
Input Watts (W): 39.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2981	2981	2981
5°	2982	2977	2993
10°	2963	2968	2992
15°	2931	2953	2993
20°	2889	2931	2984
25°	2838	2896	2960
30°	2772	2848	2918
35°	2698	2785	2850
40°	2616	2709	2771
45°	2528	2622	2678
50°	2432	2522	2568
55°	2330	2403	2440
60°	2213	2271	2297
65°	2087	2118	2131
70°	1915	1938	1915
75°	1724	1714	1663
80°	1460	1444	1399
85°	1091	1061	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.8	3.6
10°-20°	599.3	10.3
20°-30°	898.5	15.4
30°-40°	1058.2	18.2
40°-50°	1058.3	18.2
50°-60°	913.2	15.7
60°-70°	657.1	11.3
70°-80°	348.5	6.0
80°-90°	83.1	1.4
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°	1707.6	29.3
0°-40°	2765.8	47.5
0°-60°	4737.3	81.3
0°-90°	5826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2208	2206	2204	2212	2216	209
15°	2104	2110	2120	2141	2149	593
25°	1912	1923	1951	1984	1994	879
35°	1643	1662	1696	1725	1735	1028
45°	1329	1346	1378	1401	1407	1025
55°	993	1003	1024	1042	1040	889
65°	656	658	665	669	669	648
75°	332	328	330	322	320	353
85°	71	71	69	63	61	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2215.7	2215.7	2215.7	2215.7	2215.7
2.5°	2217.7	2213.8	2207.9	2215.7	2219.7
5°	2207.9	2205.9	2204.0	2211.8	2215.7
7.5°	2190.2	2192.2	2190.2	2202.0	2205.9
10°	2168.6	2170.6	2172.6	2186.3	2190.2
12.5°	2141.2	2143.1	2149.0	2166.7	2172.6
15°	2103.9	2109.8	2119.6	2141.2	2149.0
17.5°	2064.6	2072.5	2086.2	2111.7	2119.6
20°	2017.5	2027.3	2047.0	2074.4	2084.2
22.5°	1964.5	1974.3	2001.8	2031.3	2041.1
25°	1911.5	1923.3	1950.8	1984.2	1994.0
27.5°	1848.7	1864.4	1893.9	1927.2	1935.1
30°	1784.0	1797.7	1833.0	1864.4	1878.2
32.5°	1719.2	1732.9	1766.3	1797.7	1807.5
35°	1642.7	1662.3	1695.7	1725.1	1734.9
37.5°	1568.1	1585.8	1621.1	1650.5	1660.3
40°	1489.6	1505.3	1542.6	1570.1	1577.9
42.5°	1411.1	1426.8	1464.1	1485.7	1493.5
45°	1328.7	1346.3	1377.7	1401.3	1407.2
47.5°	1246.2	1260.0	1289.4	1311.0	1318.8
50°	1161.8	1175.6	1205.0	1222.7	1226.6
52.5°	1077.4	1087.3	1114.7	1130.4	1136.3
55°	993.1	1002.9	1024.5	1042.1	1040.2
57.5°	912.6	916.5	938.1	949.9	949.9
60°	822.3	826.2	843.9	851.8	853.7
62.5°	737.9	743.8	757.5	759.5	759.5
65°	655.5	657.5	665.3	669.2	669.2
67.5°	573.1	571.1	579.0	579.0	577.0
70°	486.7	490.6	492.6	488.7	486.7
72.5°	408.2	406.3	406.3	404.3	404.3
75°	331.7	327.7	329.7	321.9	319.9
77.5°	261.0	255.1	253.2	249.2	245.3
80°	188.4	188.4	186.4	182.5	180.6
82.5°	125.6	125.6	123.6	119.7	115.8
85°	70.7	70.7	68.7	62.8	60.8
87.5°	23.6	23.6	23.6	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)