

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: P297358

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297358  
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-50L82765-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: 4982.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

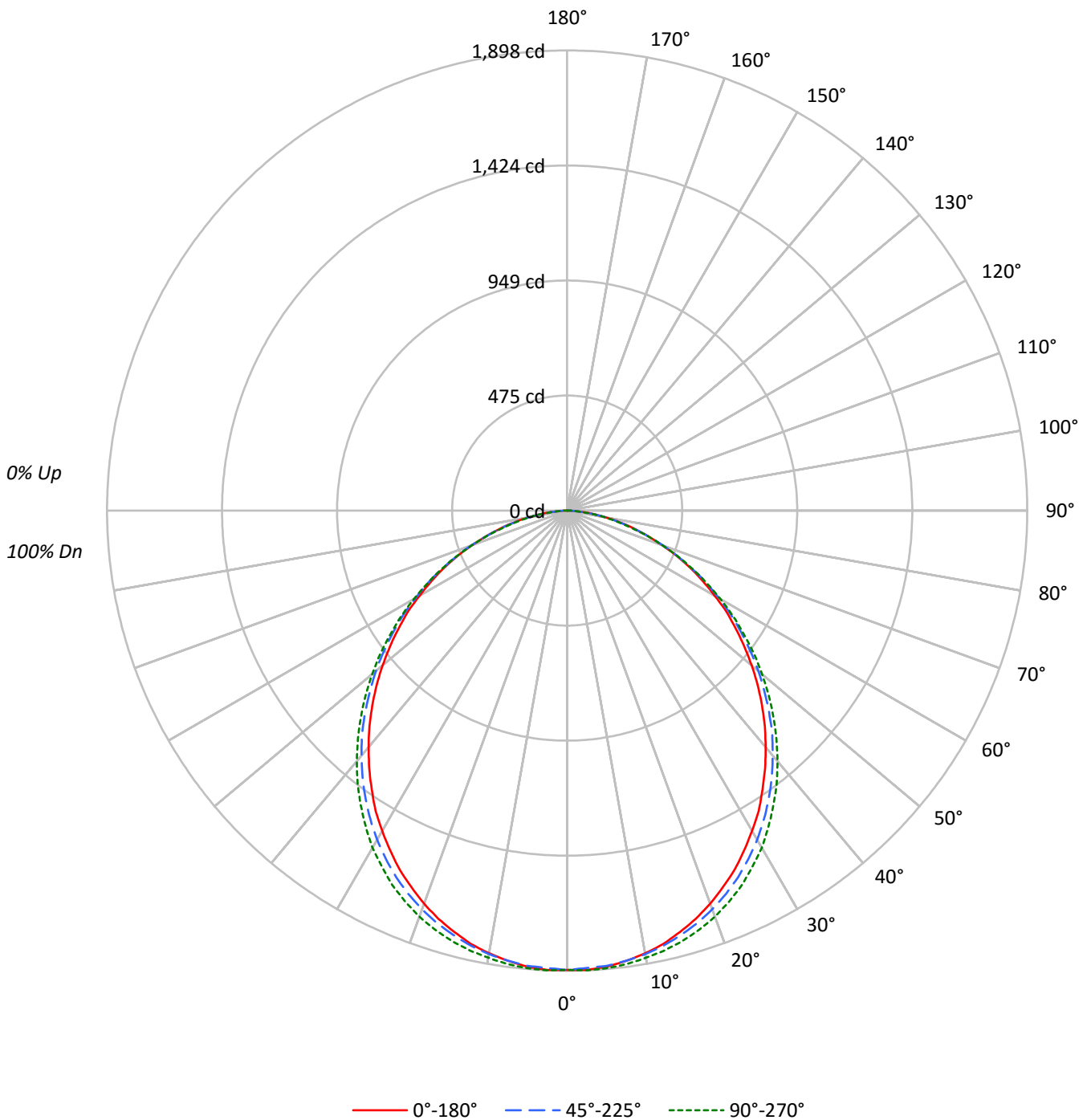
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2549	2549	2549
5°	2550	2546	2559
10°	2534	2538	2559
15°	2506	2525	2560
20°	2470	2506	2552
25°	2427	2477	2531
30°	2370	2435	2495
35°	2307	2382	2437
40°	2237	2317	2370
45°	2162	2242	2290
50°	2080	2157	2196
55°	1992	2055	2087
60°	1892	1942	1964
65°	1784	1811	1822
70°	1637	1657	1637
75°	1474	1465	1422
80°	1248	1235	1196
85°	932	906	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	3.6
10°-20°	512.5	10.3
20°-30°	768.4	15.4
30°-40°	904.9	18.2
40°-50°	905.0	18.2
50°-60°	780.9	15.7
60°-70°	561.9	11.3
70°-80°	298.0	6.0
80°-90°	71.1	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°	1460.2	29.3
0°-40°	2365.1	47.5
0°-60°	4051.0	81.3
0°-90°	4982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1895	1895	1895	1895	1895	
5°	1888	1886	1885	1891	1895	179
15°	1799	1804	1812	1831	1838	507
25°	1635	1645	1668	1697	1705	752
35°	1405	1422	1450	1475	1484	879
45°	1136	1151	1178	1198	1203	876
55°	849	858	876	891	890	760
65°	560	562	569	572	572	554
75°	284	280	282	275	274	302
85°	60	60	59	54	52	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1894.7	1894.7	1894.7	1894.7	1894.7
2.5°	1896.4	1893.1	1888.0	1894.7	1898.1
5°	1888.0	1886.4	1884.7	1891.4	1894.7
7.5°	1872.9	1874.6	1872.9	1883.0	1886.4
10°	1854.5	1856.1	1857.8	1869.6	1872.9
12.5°	1831.0	1832.7	1837.7	1852.8	1857.8
15°	1799.1	1804.1	1812.5	1831.0	1837.7
17.5°	1765.5	1772.2	1784.0	1805.8	1812.5
20°	1725.2	1733.6	1750.4	1773.9	1782.3
22.5°	1679.9	1688.3	1711.8	1737.0	1745.4
25°	1634.6	1644.7	1668.2	1696.7	1705.1
27.5°	1580.9	1594.3	1619.5	1648.0	1654.8
30°	1525.5	1537.3	1567.5	1594.3	1606.1
32.5°	1470.1	1481.9	1510.4	1537.3	1545.7
35°	1404.7	1421.5	1450.0	1475.2	1483.6
37.5°	1340.9	1356.0	1386.2	1411.4	1419.8
40°	1273.8	1287.2	1319.1	1342.6	1349.3
42.5°	1206.7	1220.1	1252.0	1270.4	1277.1
45°	1136.2	1151.3	1178.1	1198.3	1203.3
47.5°	1065.7	1077.4	1102.6	1121.1	1127.8
50°	993.5	1005.3	1030.4	1045.6	1048.9
52.5°	921.4	929.8	953.2	966.7	971.7
55°	849.2	857.6	876.0	891.2	889.5
57.5°	780.4	783.7	802.2	812.3	812.3
60°	703.2	706.5	721.6	728.4	730.0
62.5°	631.0	636.1	647.8	649.5	649.5
65°	560.5	562.2	568.9	572.3	572.3
67.5°	490.0	488.4	495.1	495.1	493.4
70°	416.2	419.6	421.2	417.9	416.2
72.5°	349.1	347.4	347.4	345.7	345.7
75°	283.6	280.3	281.9	275.2	273.6
77.5°	223.2	218.2	216.5	213.1	209.8
80°	161.1	161.1	159.4	156.1	154.4
82.5°	107.4	107.4	105.7	102.4	99.0
85°	60.4	60.4	58.7	53.7	52.0
87.5°	20.1	20.1	20.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)