

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: P297080

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4833.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

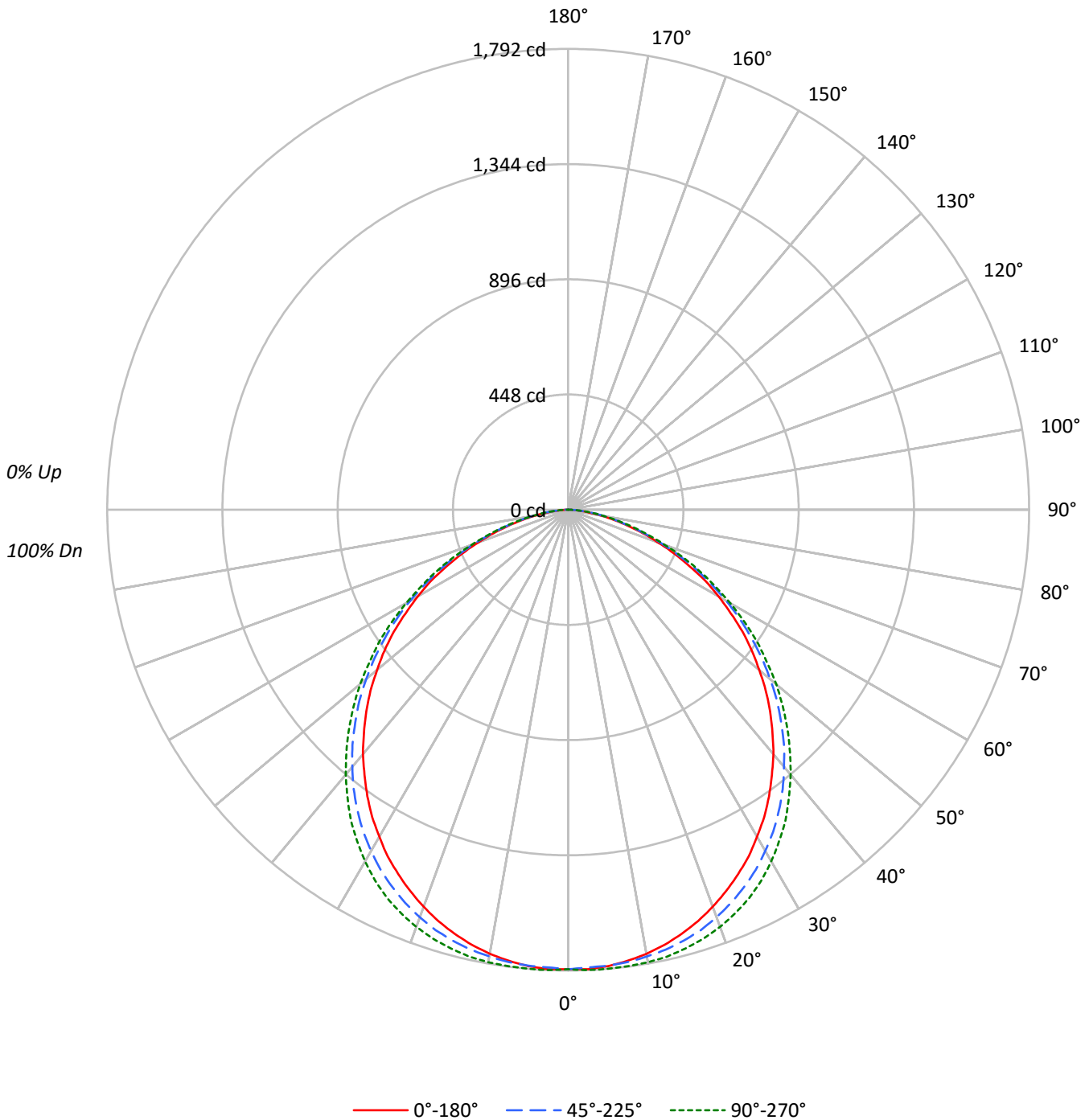
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

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

	0°	45°	90°
0°	2404	2404	2404
5°	2406	2404	2420
10°	2396	2410	2441
15°	2378	2416	2460
20°	2353	2414	2471
25°	2321	2403	2473
30°	2281	2380	2453
35°	2235	2346	2420
40°	2180	2293	2363
45°	2112	2227	2293
50°	2029	2145	2211
55°	1941	2039	2104
60°	1817	1910	1957
65°	1659	1747	1791
70°	1458	1532	1573
75°	1233	1296	1341
80°	979	1073	1100
85°	668	801	775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	3.5
10°-20°	490.1	10.1
20°-30°	744.8	15.4
30°-40°	888.8	18.4
40°-50°	897.6	18.6
50°-60°	773.4	16.0
60°-70°	539.1	11.2
70°-80°	267.2	5.5
80°-90°	62.3	1.3
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°	1404.7	29.1
0°-40°	2293.4	47.5
0°-60°	3964.4	82.0
0°-90°	4833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1787	1787	1787	1787	1787	
5°	1782	1780	1780	1788	1792	169
15°	1707	1716	1735	1757	1766	481
25°	1563	1584	1619	1652	1666	720
35°	1361	1383	1428	1461	1473	851
45°	1110	1134	1170	1198	1205	855
55°	828	845	869	890	897	738
65°	521	532	549	554	563	517
75°	237	241	249	254	258	256
85°	43	52	52	48	50	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1788.4	1784.9	1781.5	1788.4	1791.9
5°	1781.5	1779.7	1779.7	1788.4	1791.9
7.5°	1769.3	1769.3	1774.5	1786.7	1790.1
10°	1753.8	1757.2	1764.2	1781.5	1786.7
12.5°	1733.0	1739.9	1752.0	1772.8	1779.7
15°	1707.0	1715.7	1734.7	1757.2	1765.9
17.5°	1677.6	1689.7	1713.9	1739.9	1748.6
20°	1643.0	1658.5	1686.2	1715.7	1726.1
22.5°	1604.9	1623.9	1655.1	1686.2	1698.4
25°	1563.3	1584.1	1618.7	1651.6	1665.5
27.5°	1520.0	1540.8	1578.9	1611.8	1625.7
30°	1468.1	1492.3	1532.2	1566.8	1578.9
32.5°	1417.9	1442.1	1483.7	1514.9	1527.0
35°	1360.8	1383.3	1428.3	1461.2	1473.3
37.5°	1300.2	1326.1	1369.4	1398.9	1409.2
40°	1241.3	1263.8	1305.4	1334.8	1345.2
42.5°	1175.5	1199.8	1241.3	1267.3	1275.9
45°	1109.7	1134.0	1170.3	1198.0	1205.0
47.5°	1042.2	1064.7	1101.1	1123.6	1130.5
50°	969.5	990.3	1024.9	1047.4	1056.1
52.5°	900.3	919.3	948.7	967.8	973.0
55°	827.5	844.9	869.1	889.9	896.8
57.5°	749.6	768.7	791.2	808.5	813.7
60°	675.2	690.8	709.8	725.4	727.1
62.5°	602.5	609.4	626.7	640.6	642.3
65°	521.1	531.5	548.8	554.0	562.7
67.5°	446.7	453.6	467.4	474.4	481.3
70°	370.5	375.7	389.5	398.2	399.9
72.5°	304.7	306.4	316.8	323.7	325.5
75°	237.2	240.6	249.3	254.5	258.0
77.5°	180.1	183.5	190.4	193.9	193.9
80°	126.4	131.6	138.5	140.2	142.0
82.5°	81.4	88.3	93.5	95.2	91.8
85°	43.3	51.9	51.9	48.5	50.2
87.5°	15.6	19.0	20.8	22.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)