

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: P297081

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297081  
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-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4880.0 lumens  
Efficiency: N/A  
Efficacy: 135.6 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

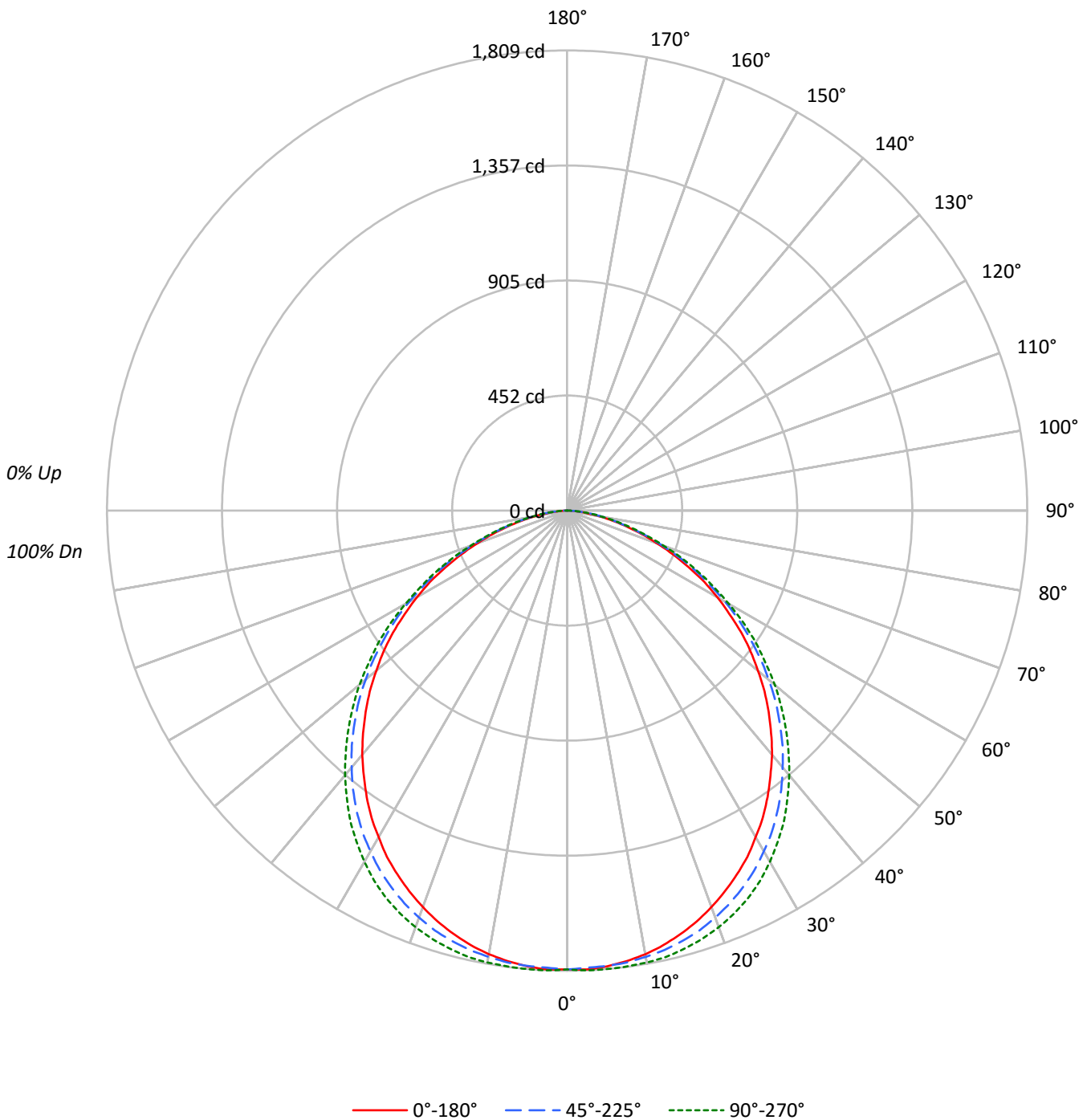
Input Watts (W): 36  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297081

CATALOG NUMBER: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297081

CATALOG NUMBER: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5500K

**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°	2427	2427	2427
5°	2430	2427	2444
10°	2419	2434	2465
15°	2401	2440	2484
20°	2375	2438	2495
25°	2343	2427	2497
30°	2303	2404	2477
35°	2257	2369	2443
40°	2201	2315	2386
45°	2132	2249	2315
50°	2049	2166	2232
55°	1960	2058	2124
60°	1835	1929	1976
65°	1675	1764	1809
70°	1472	1547	1589
75°	1245	1308	1354
80°	989	1083	1110
85°	675	809	783



TEST NUMBER: P297081

CATALOG NUMBER: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	3.5
10°-20°	494.9	10.1
20°-30°	752.1	15.4
30°-40°	897.4	18.4
40°-50°	906.4	18.6
50°-60°	780.9	16.0
60°-70°	544.4	11.2
70°-80°	269.8	5.5
80°-90°	62.9	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°	1418.4	29.1
0°-40°	2315.8	47.5
0°-60°	4003.0	82.0
0°-90°	4880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1799	1797	1797	1806	1809	171
15°	1724	1732	1752	1774	1783	486
25°	1578	1600	1634	1668	1682	727
35°	1374	1397	1442	1475	1488	859
45°	1120	1145	1182	1210	1217	864
55°	836	853	878	898	906	745
65°	526	537	554	559	568	523
75°	240	243	252	257	260	258
85°	44	52	52	49	51	56
90°	0	0	0	0	0	



TEST NUMBER: P297081

CATALOG NUMBER: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1804.0	1804.0	1804.0	1804.0	1804.0
2.5°	1805.8	1802.3	1798.8	1805.8	1809.3
5°	1798.8	1797.0	1797.0	1805.8	1809.3
7.5°	1786.6	1786.6	1791.8	1804.0	1807.5
10°	1770.8	1774.3	1781.3	1798.8	1804.0
12.5°	1749.8	1756.8	1769.1	1790.0	1797.0
15°	1723.6	1732.4	1751.6	1774.3	1783.1
17.5°	1693.9	1706.1	1730.6	1756.8	1765.6
20°	1658.9	1674.7	1702.6	1732.4	1742.8
22.5°	1620.5	1639.7	1671.2	1702.6	1714.9
25°	1578.5	1599.5	1634.5	1667.7	1681.7
27.5°	1534.8	1555.8	1594.3	1627.5	1641.5
30°	1482.4	1506.9	1547.1	1582.0	1594.3
32.5°	1431.7	1456.2	1498.1	1529.6	1541.8
35°	1374.0	1396.7	1442.2	1475.4	1487.6
37.5°	1312.8	1339.0	1382.7	1412.5	1422.9
40°	1253.4	1276.1	1318.1	1347.8	1358.3
42.5°	1187.0	1211.4	1253.4	1279.6	1288.3
45°	1120.5	1145.0	1181.7	1209.7	1216.7
47.5°	1052.4	1075.1	1111.8	1134.5	1141.5
50°	978.9	999.9	1034.9	1057.6	1066.3
52.5°	909.0	928.2	958.0	977.2	982.4
55°	835.6	853.1	877.5	898.5	905.5
57.5°	756.9	776.2	798.9	816.4	821.6
60°	681.8	697.5	716.7	732.5	734.2
62.5°	608.3	615.3	632.8	646.8	648.5
65°	526.2	536.7	554.1	559.4	568.1
67.5°	451.0	458.0	472.0	479.0	486.0
70°	374.1	379.3	393.3	402.1	403.8
72.5°	307.7	309.4	319.9	326.9	328.6
75°	239.5	243.0	251.7	257.0	260.5
77.5°	181.8	185.3	192.3	195.8	195.8
80°	127.6	132.9	139.8	141.6	143.3
82.5°	82.2	89.2	94.4	96.1	92.6
85°	43.7	52.4	52.4	48.9	50.7
87.5°	15.7	19.2	21.0	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)