

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: P297086

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297086  
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-55L82765-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5097.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

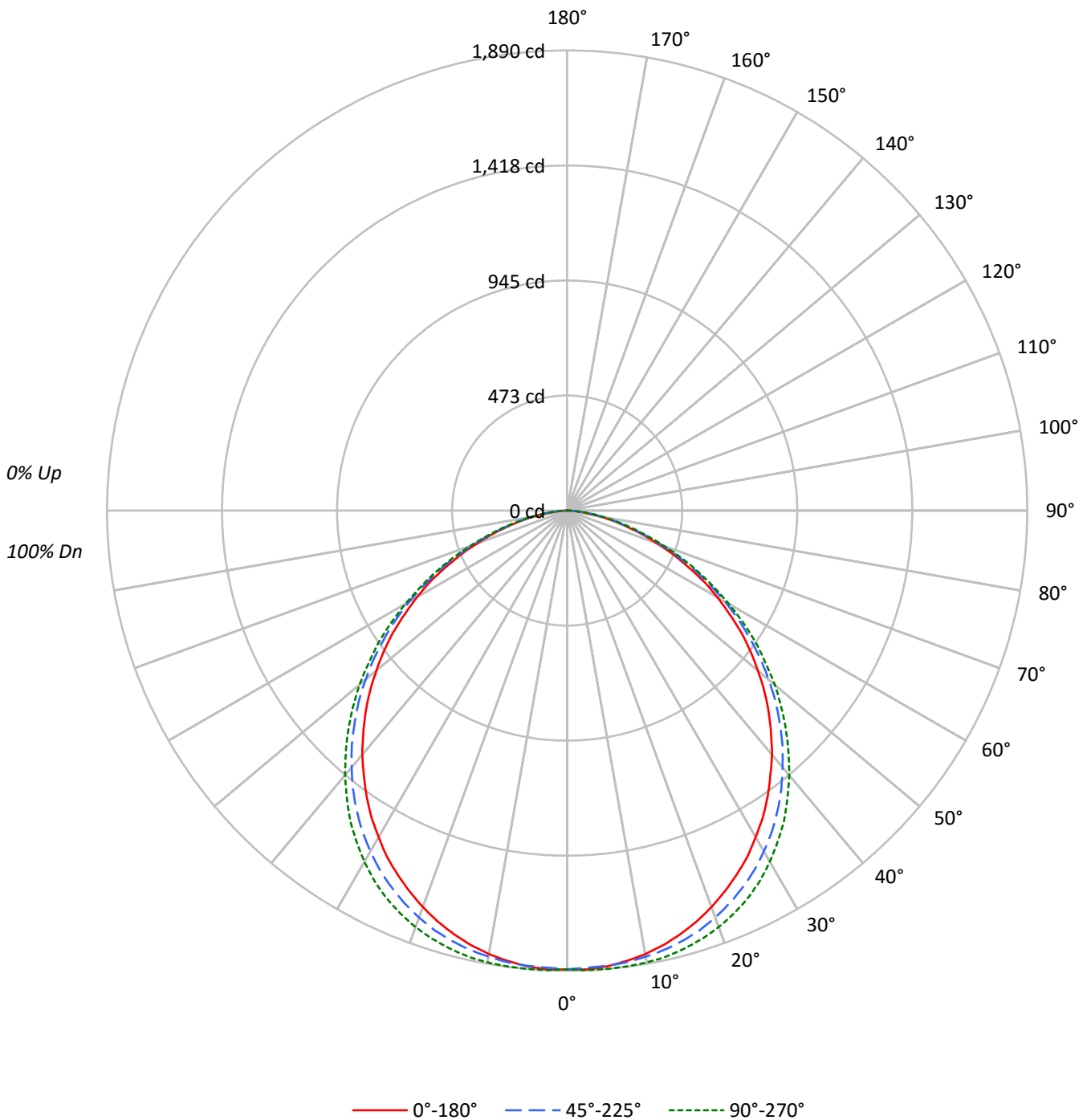
Input Watts (W): 38.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297086

CATALOG NUMBER: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297086

CATALOG NUMBER: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3500K

**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°	2535	2535	2535
5°	2538	2535	2552
10°	2527	2542	2574
15°	2508	2548	2594
20°	2481	2546	2606
25°	2448	2534	2608
30°	2405	2511	2587
35°	2357	2474	2552
40°	2299	2418	2492
45°	2227	2349	2418
50°	2140	2263	2331
55°	2047	2150	2219
60°	1916	2014	2063
65°	1750	1843	1889
70°	1537	1616	1659
75°	1300	1367	1414
80°	1033	1132	1160
85°	704	846	817



TEST NUMBER: P297086

CATALOG NUMBER: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	3.5
10°-20°	516.9	10.1
20°-30°	785.5	15.4
30°-40°	937.3	18.4
40°-50°	946.7	18.6
50°-60°	815.6	16.0
60°-70°	568.6	11.2
70°-80°	281.8	5.5
80°-90°	65.7	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°	1481.4	29.1
0°-40°	2418.7	47.5
0°-60°	4181.0	82.0
0°-90°	5097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1879	1877	1877	1886	1890	178
15°	1800	1809	1830	1853	1862	508
25°	1649	1671	1707	1742	1756	760
35°	1435	1459	1506	1541	1554	897
45°	1170	1196	1234	1264	1271	902
55°	873	891	917	938	946	778
65°	550	560	579	584	593	546
75°	250	254	263	268	272	270
85°	46	55	55	51	53	58
90°	0	0	0	0	0	



TEST NUMBER: P297086

CATALOG NUMBER: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1884.3	1884.3	1884.3	1884.3	1884.3
2.5°	1886.1	1882.4	1878.8	1886.1	1889.7
5°	1878.8	1876.9	1876.9	1886.1	1889.7
7.5°	1866.0	1866.0	1871.5	1884.3	1887.9
10°	1849.6	1853.2	1860.5	1878.8	1884.3
12.5°	1827.7	1835.0	1847.7	1869.6	1876.9
15°	1800.3	1809.4	1829.5	1853.2	1862.3
17.5°	1769.2	1782.0	1807.6	1835.0	1844.1
20°	1732.7	1749.1	1778.4	1809.4	1820.3
22.5°	1692.5	1712.6	1745.5	1778.4	1791.1
25°	1648.7	1670.6	1707.1	1741.8	1756.4
27.5°	1603.1	1625.0	1665.2	1699.8	1714.5
30°	1548.3	1573.9	1615.9	1652.4	1665.2
32.5°	1495.4	1520.9	1564.7	1597.6	1610.4
35°	1435.1	1458.8	1506.3	1541.0	1553.8
37.5°	1371.2	1398.6	1444.2	1475.3	1486.2
40°	1309.1	1332.9	1376.7	1407.7	1418.7
42.5°	1239.7	1265.3	1309.1	1336.5	1345.6
45°	1170.4	1195.9	1234.3	1263.5	1270.8
47.5°	1099.1	1122.9	1161.2	1185.0	1192.3
50°	1022.5	1044.4	1080.9	1104.6	1113.8
52.5°	949.4	969.5	1000.6	1020.6	1026.1
55°	872.7	891.0	916.6	938.5	945.8
57.5°	790.6	810.7	834.4	852.7	858.1
60°	712.1	728.5	748.6	765.0	766.8
62.5°	635.4	642.7	660.9	675.6	677.4
65°	549.6	560.5	578.8	584.3	593.4
67.5°	471.1	478.4	493.0	500.3	507.6
70°	390.7	396.2	410.8	419.9	421.8
72.5°	321.3	323.2	334.1	341.4	343.3
75°	250.1	253.8	262.9	268.4	272.0
77.5°	189.9	193.5	200.8	204.5	204.5
80°	133.3	138.8	146.1	147.9	149.7
82.5°	85.8	93.1	98.6	100.4	96.8
85°	45.6	54.8	54.8	51.1	52.9
87.5°	16.4	20.1	21.9	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)