

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: P297152

Luminaire Tested: **D3X-WG-50L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297152  
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-50L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4384.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

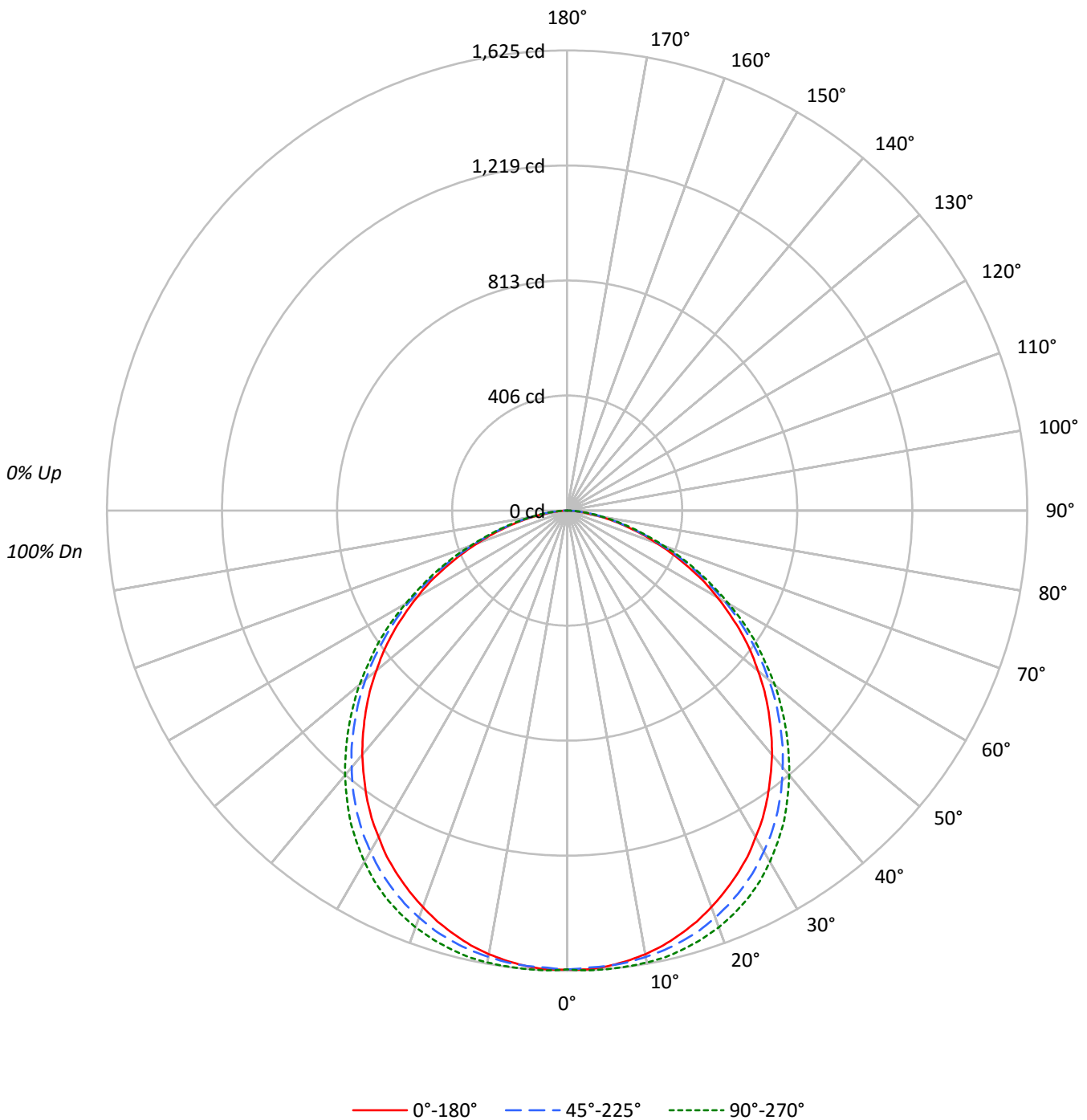
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2181	2181	2181
5°	2183	2180	2195
10°	2173	2186	2214
15°	2157	2192	2231
20°	2134	2190	2242
25°	2105	2180	2243
30°	2069	2159	2225
35°	2027	2128	2195
40°	1978	2080	2143
45°	1915	2020	2080
50°	1841	1946	2005
55°	1761	1849	1908
60°	1648	1733	1775
65°	1505	1585	1625
70°	1322	1390	1427
75°	1118	1175	1216
80°	888	973	998
85°	607	727	702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	3.5
10°-20°	444.6	10.1
20°-30°	675.6	15.4
30°-40°	806.2	18.4
40°-50°	814.2	18.6
50°-60°	701.5	16.0
60°-70°	489.0	11.2
70°-80°	242.4	5.5
80°-90°	56.5	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°	1274.2	29.1
0°-40°	2080.4	47.5
0°-60°	3596.1	82.0
0°-90°	4384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1616	1614	1614	1622	1625	153
15°	1548	1556	1574	1594	1602	437
25°	1418	1437	1468	1498	1511	653
35°	1234	1255	1296	1325	1336	772
45°	1007	1029	1062	1087	1093	776
55°	751	766	788	807	814	669
65°	473	482	498	502	510	469
75°	215	218	226	231	234	232
85°	39	47	47	44	46	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1622.2	1619.1	1616.0	1622.2	1625.4
5°	1616.0	1614.4	1614.4	1622.2	1625.4
7.5°	1605.0	1605.0	1609.7	1620.7	1623.8
10°	1590.8	1594.0	1600.3	1616.0	1620.7
12.5°	1572.0	1578.3	1589.3	1608.1	1614.4
15°	1548.4	1556.3	1573.6	1594.0	1601.8
17.5°	1521.7	1532.7	1554.7	1578.3	1586.1
20°	1490.3	1504.5	1529.6	1556.3	1565.7
22.5°	1455.8	1473.1	1501.3	1529.6	1540.6
25°	1418.1	1436.9	1468.3	1498.2	1510.7
27.5°	1378.8	1397.7	1432.2	1462.1	1474.6
30°	1331.7	1353.7	1389.8	1421.2	1432.2
32.5°	1286.2	1308.2	1345.8	1374.1	1385.1
35°	1234.3	1254.8	1295.6	1325.4	1336.4
37.5°	1179.4	1202.9	1242.2	1268.9	1278.3
40°	1126.0	1146.4	1184.1	1210.8	1220.2
42.5°	1066.3	1088.3	1126.0	1149.5	1157.4
45°	1006.6	1028.6	1061.6	1086.7	1093.0
47.5°	945.4	965.8	998.8	1019.2	1025.5
50°	879.4	898.3	929.7	950.1	958.0
52.5°	816.6	833.9	860.6	877.9	882.6
55°	750.7	766.4	788.4	807.2	813.5
57.5°	680.0	697.3	717.7	733.4	738.1
60°	612.5	626.6	643.9	658.0	659.6
62.5°	546.5	552.8	568.5	581.1	582.6
65°	472.7	482.1	497.8	502.5	510.4
67.5°	405.2	411.4	424.0	430.3	436.6
70°	336.1	340.8	353.3	361.2	362.8
72.5°	276.4	278.0	287.4	293.7	295.2
75°	215.1	218.3	226.1	230.9	234.0
77.5°	163.3	166.5	172.7	175.9	175.9
80°	114.6	119.4	125.6	127.2	128.8
82.5°	73.8	80.1	84.8	86.4	83.2
85°	39.3	47.1	47.1	44.0	45.5
87.5°	14.1	17.3	18.8	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)