

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: P297149

Luminaire Tested: **D3X-WG-50L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297149  
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-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3651.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

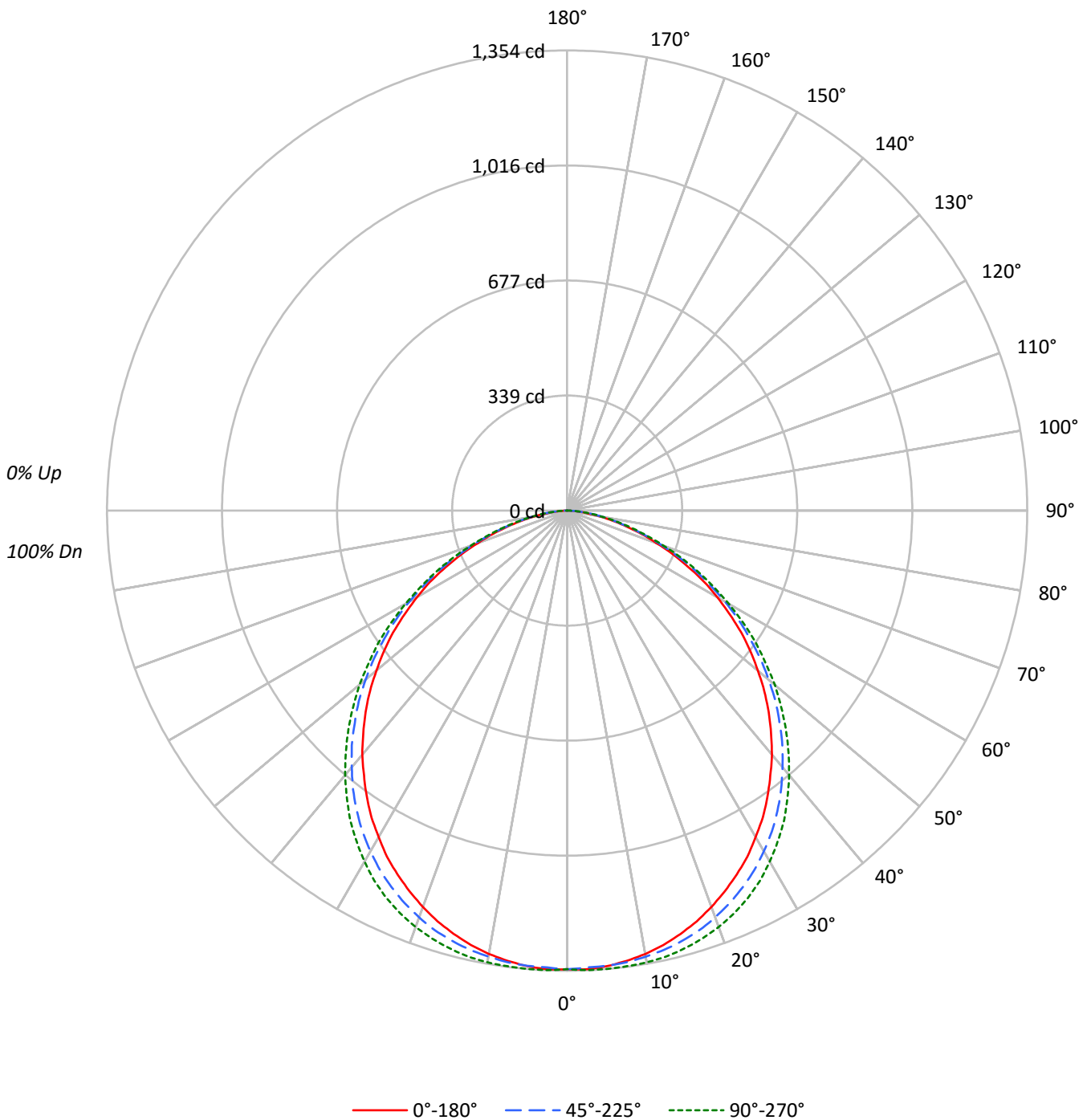
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

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

	0°	45°	90°
0°	1816	1816	1816
5°	1818	1816	1828
10°	1810	1821	1844
15°	1796	1825	1858
20°	1777	1824	1867
25°	1753	1815	1868
30°	1723	1798	1853
35°	1689	1772	1828
40°	1647	1732	1785
45°	1595	1682	1732
50°	1533	1621	1670
55°	1467	1540	1589
60°	1373	1443	1478
65°	1253	1320	1353
70°	1101	1158	1188
75°	932	979	1013
80°	740	810	831
85°	505	605	585



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	3.5
10°-20°	370.2	10.1
20°-30°	562.7	15.4
30°-40°	671.4	18.4
40°-50°	678.1	18.6
50°-60°	584.2	16.0
60°-70°	407.3	11.2
70°-80°	201.8	5.5
80°-90°	47.1	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°	1061.2	29.1
0°-40°	1732.5	47.5
0°-60°	2994.8	82.0
0°-90°	3651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3651.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1346	1344	1344	1351	1354	128
15°	1290	1296	1310	1328	1334	364
25°	1181	1197	1223	1248	1258	544
35°	1028	1045	1079	1104	1113	643
45°	838	857	884	905	910	646
55°	625	638	656	672	678	557
65°	394	402	415	418	425	391
75°	179	182	188	192	195	193
85°	33	39	39	37	38	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1349.7	1349.7	1349.7	1349.7	1349.7
2.5°	1351.0	1348.4	1345.8	1351.0	1353.6
5°	1345.8	1344.5	1344.5	1351.0	1353.6
7.5°	1336.6	1336.6	1340.5	1349.7	1352.3
10°	1324.8	1327.5	1332.7	1345.8	1349.7
12.5°	1309.2	1314.4	1323.5	1339.2	1344.5
15°	1289.5	1296.1	1310.5	1327.5	1334.0
17.5°	1267.3	1276.5	1294.8	1314.4	1320.9
20°	1241.1	1252.9	1273.8	1296.1	1303.9
22.5°	1212.4	1226.8	1250.3	1273.8	1283.0
25°	1181.0	1196.7	1222.8	1247.7	1258.1
27.5°	1148.3	1164.0	1192.8	1217.6	1228.1
30°	1109.1	1127.4	1157.4	1183.6	1192.8
32.5°	1071.1	1089.4	1120.8	1144.4	1153.5
35°	1028.0	1045.0	1079.0	1103.8	1113.0
37.5°	982.2	1001.8	1034.5	1056.7	1064.6
40°	937.7	954.7	986.1	1008.3	1016.2
42.5°	888.0	906.3	937.7	957.3	963.9
45°	838.3	856.6	884.1	905.0	910.3
47.5°	787.3	804.3	831.8	848.8	854.0
50°	732.4	748.1	774.2	791.2	797.8
52.5°	680.1	694.5	716.7	731.1	735.0
55°	625.2	638.2	656.5	672.2	677.5
57.5°	566.3	580.7	597.7	610.8	614.7
60°	510.1	521.8	536.2	548.0	549.3
62.5°	455.1	460.4	473.4	483.9	485.2
65°	393.7	401.5	414.6	418.5	425.1
67.5°	337.4	342.7	353.1	358.3	363.6
70°	279.9	283.8	294.3	300.8	302.1
72.5°	230.2	231.5	239.3	244.6	245.9
75°	179.2	181.8	188.3	192.3	194.9
77.5°	136.0	138.6	143.9	146.5	146.5
80°	95.5	99.4	104.6	105.9	107.2
82.5°	61.5	66.7	70.6	71.9	69.3
85°	32.7	39.2	39.2	36.6	37.9
87.5°	11.8	14.4	15.7	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)