

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: P297139

Luminaire Tested: **D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297139  
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-42L93050-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: 3083.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

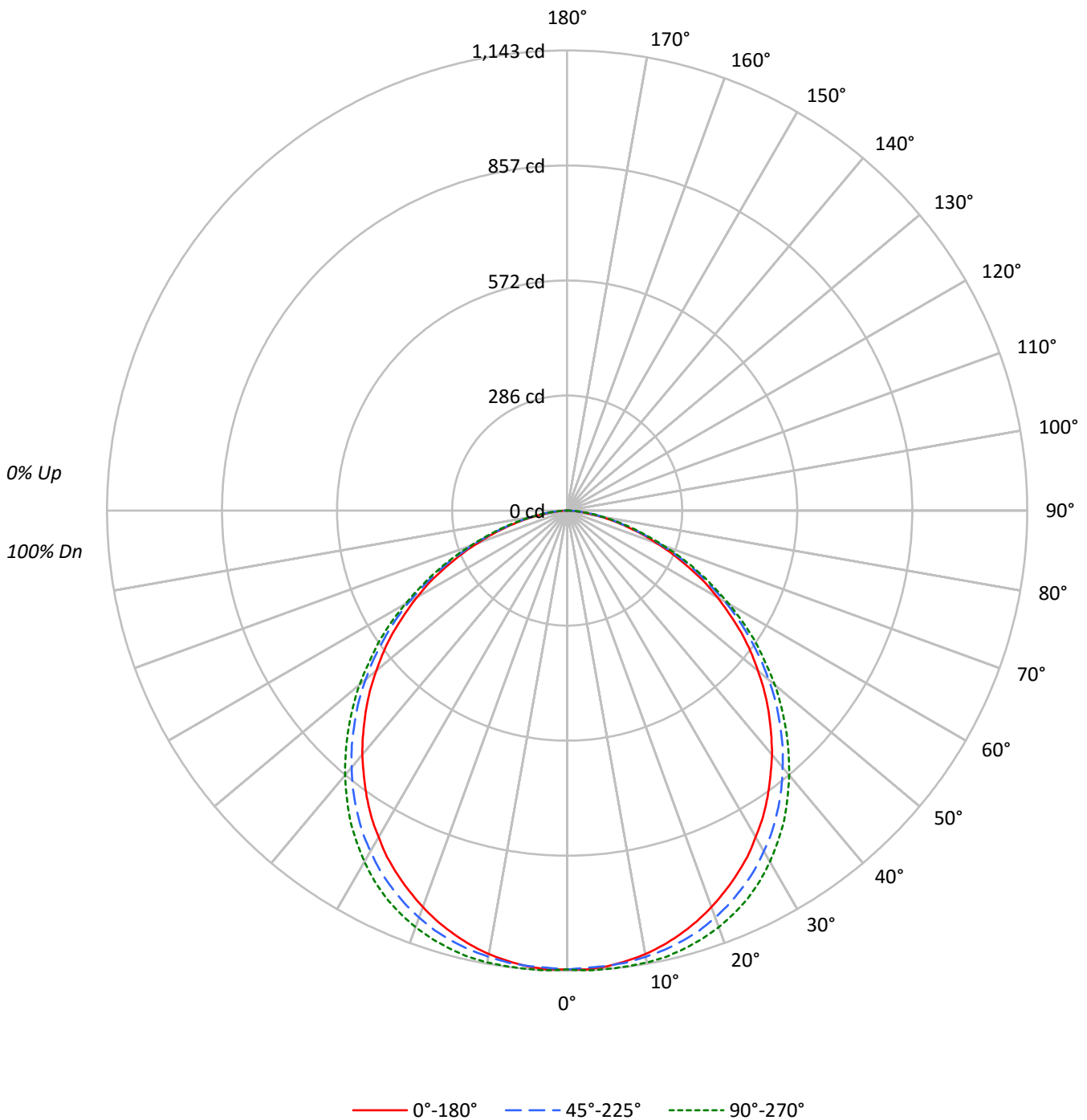
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297139

CATALOG NUMBER: D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P297139

CATALOG NUMBER: D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3000K

**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°	1533	1533	1533
5°	1535	1533	1544
10°	1528	1538	1557
15°	1517	1541	1569
20°	1501	1540	1577
25°	1481	1533	1577
30°	1455	1519	1565
35°	1426	1497	1544
40°	1391	1463	1507
45°	1347	1421	1462
50°	1295	1369	1410
55°	1238	1301	1342
60°	1159	1218	1248
65°	1058	1115	1143
70°	930	978	1004
75°	787	827	856
80°	625	685	702
85°	426	511	494



TEST NUMBER: P297139

CATALOG NUMBER: D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	3.5
10°-20°	312.6	10.1
20°-30°	475.1	15.4
30°-40°	566.9	18.4
40°-50°	572.6	18.6
50°-60°	493.3	16.0
60°-70°	343.9	11.2
70°-80°	170.4	5.5
80°-90°	39.7	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°	896.1	29.1
0°-40°	1463.0	47.5
0°-60°	2528.9	82.0
0°-90°	3083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1136	1135	1135	1141	1143	108
15°	1089	1094	1107	1121	1126	307
25°	997	1010	1033	1054	1062	459
35°	868	882	911	932	940	543
45°	708	723	747	764	769	546
55°	528	539	554	568	572	471
65°	332	339	350	353	359	330
75°	151	154	159	162	165	163
85°	28	33	33	31	32	35
90°	0	0	0	0	0	



TEST NUMBER: P297139

CATALOG NUMBER: D3X-WG-42L93050-LD5-UNV-24-T1-W2A-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1140.8	1138.6	1136.4	1140.8	1143.0
5°	1136.4	1135.3	1135.3	1140.8	1143.0
7.5°	1128.7	1128.7	1132.0	1139.7	1141.9
10°	1118.7	1120.9	1125.4	1136.4	1139.7
12.5°	1105.5	1109.9	1117.6	1130.9	1135.3
15°	1088.9	1094.4	1106.6	1120.9	1126.5
17.5°	1070.1	1077.9	1093.3	1109.9	1115.4
20°	1048.1	1058.0	1075.7	1094.4	1101.1
22.5°	1023.8	1035.9	1055.8	1075.7	1083.4
25°	997.3	1010.5	1032.6	1053.6	1062.4
27.5°	969.6	982.9	1007.2	1028.2	1037.0
30°	936.5	952.0	977.4	999.5	1007.2
32.5°	904.5	919.9	946.5	966.3	974.1
35°	868.0	882.4	911.1	932.1	939.8
37.5°	829.4	846.0	873.6	892.3	899.0
40°	791.8	806.2	832.7	851.5	858.1
42.5°	749.9	765.3	791.8	808.4	813.9
45°	707.9	723.4	746.6	764.2	768.6
47.5°	664.8	679.2	702.4	716.7	721.2
50°	618.5	631.7	653.8	668.1	673.7
52.5°	574.3	586.4	605.2	617.3	620.7
55°	527.9	538.9	554.4	567.7	572.1
57.5°	478.2	490.3	504.7	515.7	519.1
60°	430.7	440.6	452.8	462.7	463.8
62.5°	384.3	388.7	399.8	408.6	409.7
65°	332.4	339.0	350.1	353.4	358.9
67.5°	284.9	289.3	298.2	302.6	307.0
70°	236.3	239.7	248.5	254.0	255.1
72.5°	194.4	195.5	202.1	206.5	207.6
75°	151.3	153.5	159.0	162.3	164.6
77.5°	114.9	117.1	121.5	123.7	123.7
80°	80.6	83.9	88.4	89.5	90.6
82.5°	51.9	56.3	59.6	60.7	58.5
85°	27.6	33.1	33.1	30.9	32.0
87.5°	9.9	12.1	13.3	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)