

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: P298212

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-2700K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3775.0 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

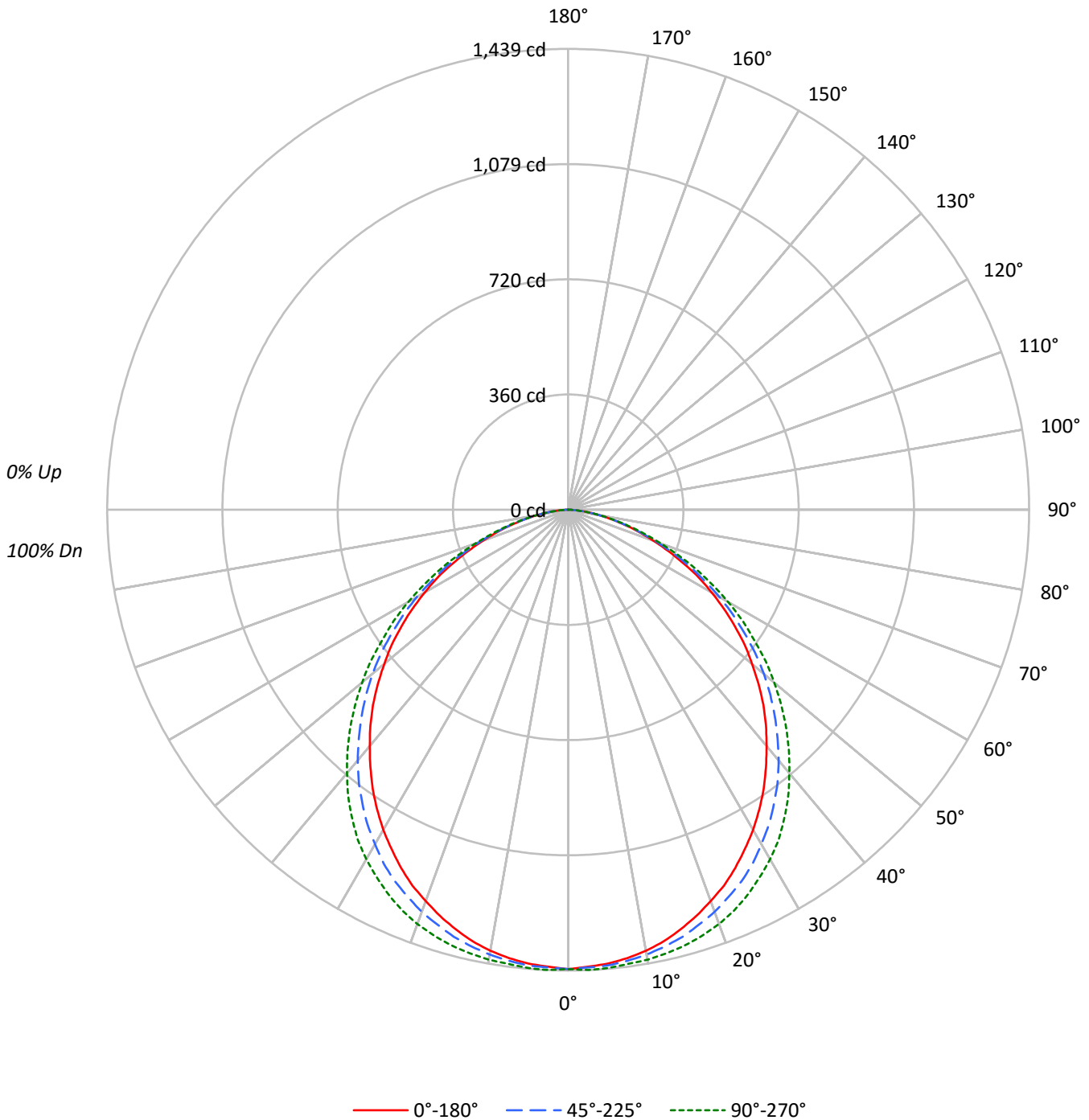
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3860	3860	3860
5°	3843	3859	3881
10°	3821	3854	3898
15°	3779	3846	3924
20°	3724	3827	3942
25°	3665	3801	3938
30°	3586	3748	3916
35°	3495	3679	3864
40°	3385	3589	3772
45°	3279	3469	3660
50°	3137	3338	3514
55°	2980	3149	3318
60°	2782	2933	3105
65°	2539	2654	2807
70°	2223	2317	2412
75°	1895	1937	2021
80°	1522	1553	1584
85°	1115	1053	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	3.6
10°-20°	389.7	10.3
20°-30°	589.2	15.6
30°-40°	699.8	18.5
40°-50°	702.6	18.6
50°-60°	600.1	15.9
60°-70°	413.5	11.0
70°-80°	200.5	5.3
80°-90°	43.9	1.2
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°	1114.7	29.5
0°-40°	1814.5	48.1
0°-60°	3117.2	82.6
0°-90°	3775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1423	1423	1429	1433	1437	135
15°	1356	1362	1380	1398	1408	382
25°	1234	1244	1280	1314	1326	568
35°	1064	1080	1120	1162	1176	665
45°	862	874	912	950	962	663
55°	635	645	671	699	707	568
65°	399	399	417	435	441	395
75°	182	178	186	190	194	196
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1434.6	1434.6	1434.6	1434.6	1434.6
2.5°	1428.6	1428.6	1430.6	1436.6	1438.6
5°	1422.6	1422.6	1428.6	1432.6	1436.6
7.5°	1412.5	1414.6	1420.6	1428.6	1430.6
10°	1398.5	1400.5	1410.5	1420.6	1426.6
12.5°	1380.5	1384.5	1396.5	1412.5	1418.6
15°	1356.4	1362.5	1380.5	1398.5	1408.5
17.5°	1330.4	1338.4	1358.4	1384.5	1394.5
20°	1300.3	1310.4	1336.4	1364.5	1376.5
22.5°	1270.3	1278.3	1308.4	1340.4	1354.4
25°	1234.2	1244.2	1280.3	1314.4	1326.4
27.5°	1194.2	1208.2	1246.2	1282.3	1294.3
30°	1154.1	1166.1	1206.2	1246.2	1260.3
32.5°	1110.0	1122.0	1166.1	1206.2	1222.2
35°	1063.9	1079.9	1120.0	1162.1	1176.1
37.5°	1013.8	1031.9	1073.9	1110.0	1128.0
40°	963.7	979.8	1021.8	1059.9	1073.9
42.5°	913.6	927.7	967.7	1007.8	1019.8
45°	861.6	873.6	911.6	949.7	961.7
47.5°	805.5	819.5	855.5	887.6	901.6
50°	749.4	763.4	797.4	827.5	839.5
52.5°	695.3	703.3	735.3	763.4	777.4
55°	635.1	645.2	671.2	699.3	707.3
57.5°	577.0	583.1	609.1	633.1	645.2
60°	516.9	520.9	545.0	563.0	577.0
62.5°	460.8	460.8	478.9	498.9	506.9
65°	398.7	398.7	416.8	434.8	440.8
67.5°	338.6	342.6	354.6	368.7	372.7
70°	282.5	282.5	294.5	304.5	306.6
72.5°	232.4	230.4	236.4	244.4	248.4
75°	182.3	178.3	186.3	190.3	194.4
77.5°	138.2	136.2	140.3	144.3	144.3
80°	98.2	96.2	100.2	100.2	102.2
82.5°	64.1	66.1	66.1	64.1	62.1
85°	36.1	36.1	34.1	32.1	32.1
87.5°	12.0	12.0	12.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)