

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: P297612

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L82765-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3763.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

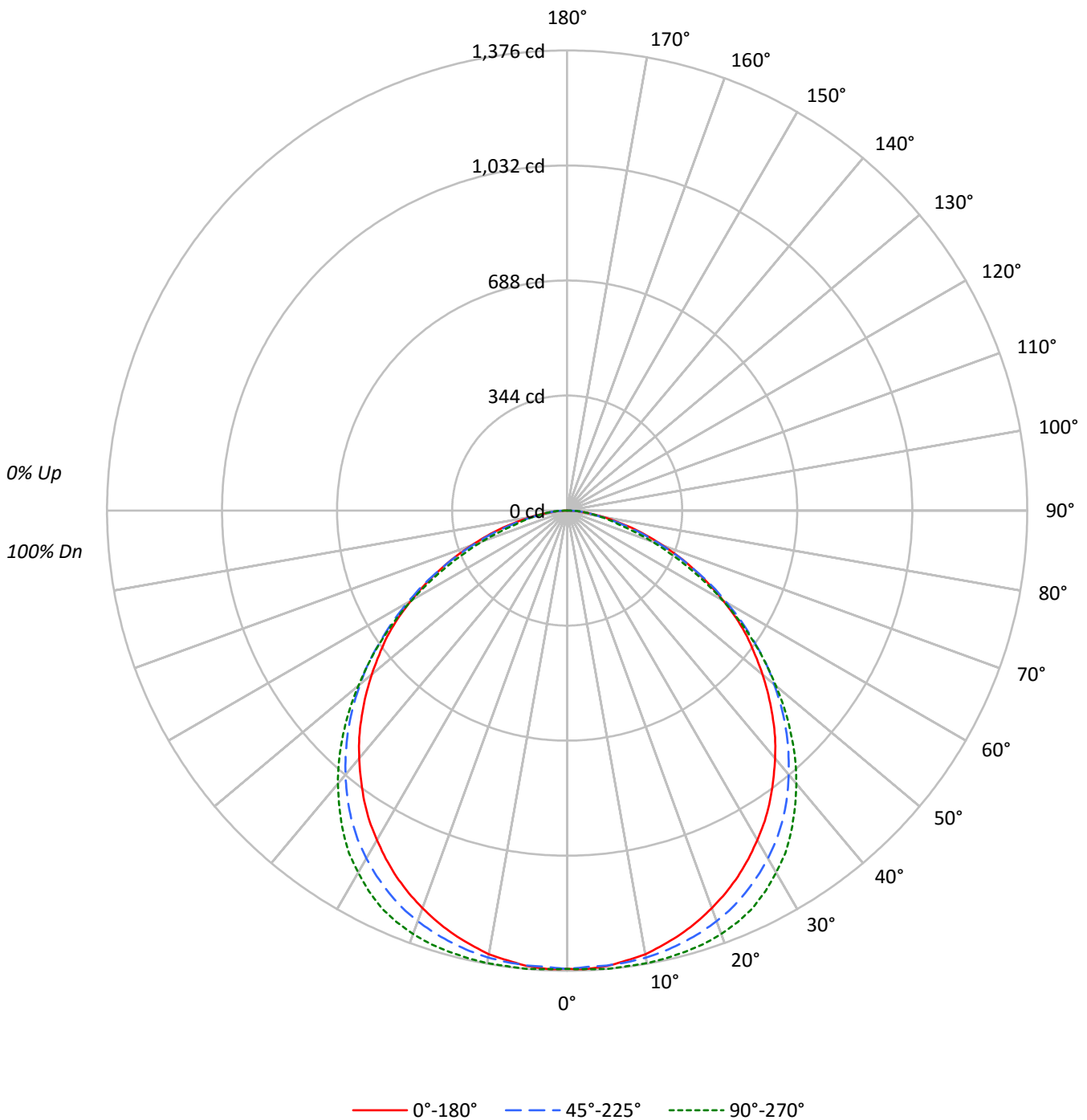
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	48	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	25

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

	0°	45°	90°
0°	3689	3689	3689
5°	3693	3689	3716
10°	3681	3709	3754
15°	3655	3725	3804
20°	3622	3742	3858
25°	3586	3746	3895
30°	3534	3732	3883
35°	3476	3697	3841
40°	3399	3623	3747
45°	3305	3522	3605
50°	3193	3382	3411
55°	3081	3200	3184
60°	2902	2965	2893
65°	2674	2684	2535
70°	2392	2339	2127
75°	2078	1938	1642
80°	1666	1509	1509
85°	1192	1402	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.5
10°-20°	378.4	10.1
20°-30°	581.0	15.4
30°-40°	699.7	18.6
40°-50°	707.1	18.8
50°-60°	603.1	16.0
60°-70°	412.9	11.0
70°-80°	199.2	5.3
80°-90°	51.3	1.4
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°	1089.7	29.0
0°-40°	1789.4	47.6
0°-60°	3099.5	82.4
0°-90°	3763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1367	1367	1366	1374	1376	130
15°	1312	1322	1337	1361	1366	370
25°	1208	1226	1262	1298	1312	556
35°	1058	1082	1125	1161	1169	661
45°	868	892	926	947	947	670
55°	657	668	682	685	679	585
65°	420	425	422	406	398	417
75°	200	200	186	165	158	212
85°	39	42	45	47	47	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1370.7	1370.7	1370.7	1370.7	1370.7
2.5°	1372.3	1370.7	1365.6	1372.3	1372.3
5°	1367.3	1367.3	1365.6	1374.0	1375.7
7.5°	1357.2	1360.6	1362.3	1372.3	1374.0
10°	1347.1	1350.5	1357.2	1370.7	1374.0
12.5°	1330.3	1337.1	1348.8	1367.3	1370.7
15°	1311.9	1321.9	1337.1	1360.6	1365.6
17.5°	1290.0	1303.5	1323.6	1350.5	1358.9
20°	1264.8	1280.0	1306.8	1337.1	1347.1
22.5°	1238.0	1254.8	1286.7	1321.9	1332.0
25°	1207.7	1226.2	1261.5	1298.4	1311.9
27.5°	1174.1	1194.3	1232.9	1271.6	1283.3
30°	1137.2	1159.0	1201.0	1239.6	1249.7
32.5°	1100.2	1122.1	1165.7	1202.7	1214.4
35°	1058.2	1081.7	1125.4	1160.7	1169.1
37.5°	1012.9	1036.4	1080.1	1115.3	1118.7
40°	967.5	991.0	1031.4	1063.3	1066.6
42.5°	920.5	942.3	979.3	1006.2	1009.5
45°	868.4	891.9	925.5	947.4	947.4
47.5°	816.3	839.9	868.4	883.5	883.5
50°	762.6	784.4	807.9	816.3	814.7
52.5°	708.8	729.0	749.2	750.8	747.5
55°	656.8	668.5	682.0	685.3	678.6
57.5°	599.7	609.7	618.1	613.1	608.1
60°	539.2	549.3	551.0	542.6	537.5
62.5°	480.4	488.8	488.8	475.4	467.0
65°	419.9	425.0	421.6	406.5	398.1
67.5°	362.8	366.2	359.5	344.3	330.9
70°	304.0	305.7	297.3	278.8	270.4
72.5°	250.3	252.0	241.9	220.0	210.0
75°	199.9	199.9	186.4	164.6	157.9
77.5°	149.5	154.5	139.4	127.7	127.7
80°	107.5	112.5	97.4	99.1	97.4
82.5°	70.5	75.6	70.5	70.5	70.5
85°	38.6	42.0	45.4	47.0	47.0
87.5°	11.8	20.2	21.8	23.5	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)