

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: P297613

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297613  
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-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3845.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

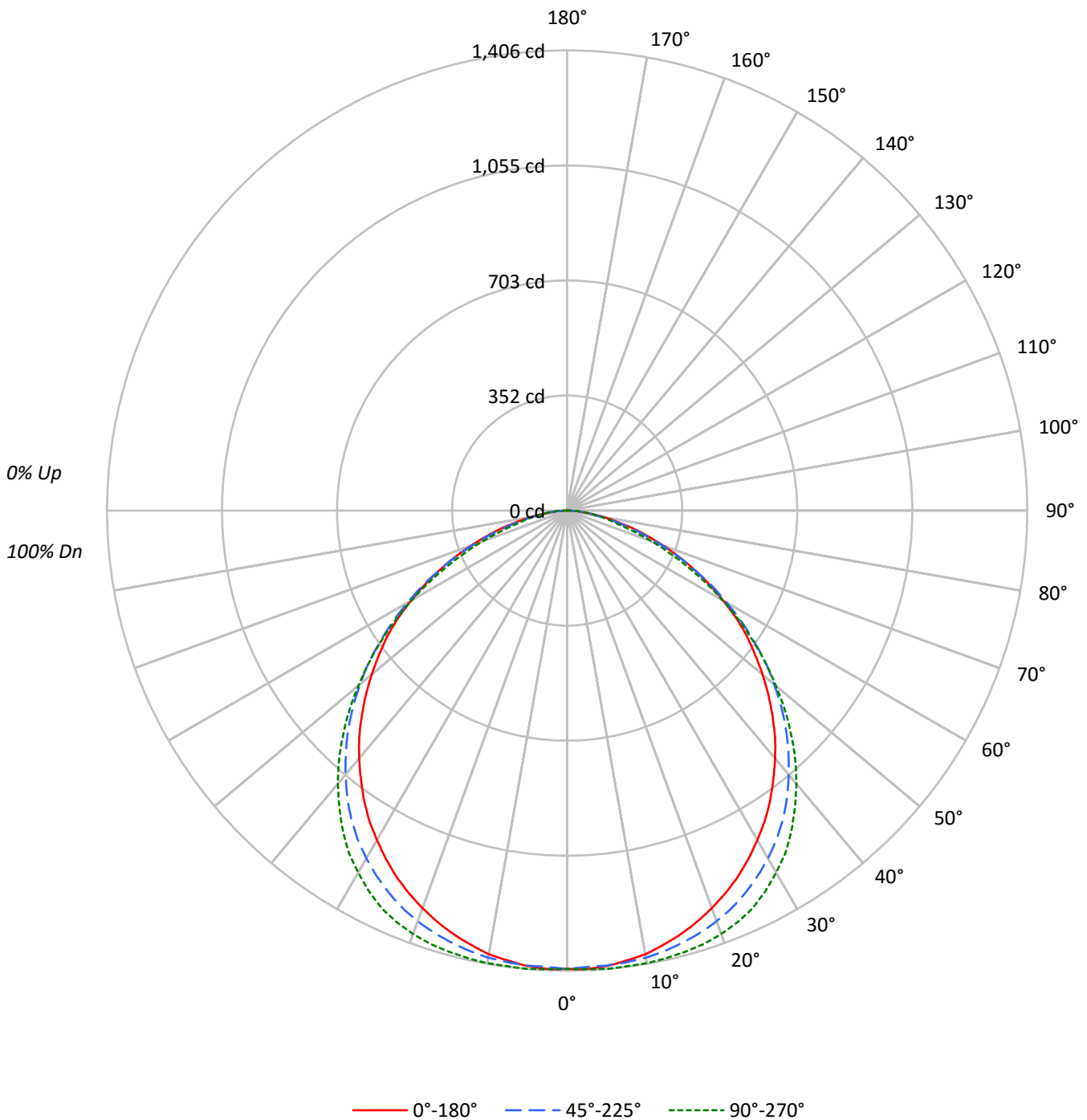
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3769	3769	3769
5°	3774	3769	3797
10°	3761	3789	3836
15°	3735	3806	3887
20°	3701	3824	3942
25°	3664	3827	3980
30°	3611	3813	3968
35°	3552	3778	3924
40°	3473	3702	3829
45°	3377	3599	3684
50°	3262	3456	3485
55°	3149	3269	3253
60°	2965	3030	2956
65°	2732	2743	2590
70°	2445	2390	2174
75°	2123	1981	1677
80°	1702	1542	1542
85°	1220	1430	1485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	3.5
10°-20°	386.6	10.1
20°-30°	593.6	15.4
30°-40°	714.9	18.6
40°-50°	722.5	18.8
50°-60°	616.3	16.0
60°-70°	421.9	11.0
70°-80°	203.6	5.3
80°-90°	52.5	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°	1113.4	29.0
0°-40°	1828.4	47.6
0°-60°	3167.1	82.4
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1397	1397	1395	1404	1406	133
15°	1340	1351	1366	1390	1395	378
25°	1234	1253	1289	1327	1340	568
35°	1081	1105	1150	1186	1195	676
45°	887	911	946	968	968	684
55°	671	683	697	700	693	598
65°	429	434	431	415	407	426
75°	204	204	190	168	161	217
85°	40	43	46	48	48	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1400.5	1400.5	1400.5	1400.5	1400.5
2.5°	1402.2	1400.5	1395.4	1402.2	1402.2
5°	1397.1	1397.1	1395.4	1404.0	1405.7
7.5°	1386.8	1390.2	1391.9	1402.2	1404.0
10°	1376.5	1379.9	1386.8	1400.5	1404.0
12.5°	1359.3	1366.2	1378.2	1397.1	1400.5
15°	1340.5	1350.8	1366.2	1390.2	1395.4
17.5°	1318.1	1331.9	1352.5	1379.9	1388.5
20°	1292.4	1307.8	1335.3	1366.2	1376.5
22.5°	1264.9	1282.1	1314.7	1350.8	1361.1
25°	1234.0	1252.9	1289.0	1326.7	1340.5
27.5°	1199.7	1220.3	1259.8	1299.3	1311.3
30°	1162.0	1184.3	1227.2	1266.7	1277.0
32.5°	1124.2	1146.5	1191.1	1228.9	1240.9
35°	1081.3	1105.3	1149.9	1186.0	1194.6
37.5°	1034.9	1059.0	1103.6	1139.6	1143.1
40°	988.6	1012.6	1053.8	1086.4	1089.9
42.5°	940.6	962.9	1000.6	1028.1	1031.5
45°	887.3	911.4	945.7	968.0	968.0
47.5°	834.1	858.2	887.3	902.8	902.8
50°	779.2	801.5	825.6	834.1	832.4
52.5°	724.3	744.9	765.5	767.2	763.8
55°	671.1	683.1	696.8	700.3	693.4
57.5°	612.7	623.0	631.6	626.5	621.3
60°	550.9	561.2	563.0	554.4	549.2
62.5°	490.9	499.5	499.5	485.7	477.1
65°	429.1	434.2	430.8	415.4	406.8
67.5°	370.7	374.2	367.3	351.8	338.1
70°	310.7	312.4	303.8	284.9	276.3
72.5°	255.7	257.4	247.2	224.8	214.5
75°	204.2	204.2	190.5	168.2	161.3
77.5°	152.8	157.9	142.5	130.4	130.4
80°	109.8	115.0	99.5	101.3	99.5
82.5°	72.1	77.2	72.1	72.1	72.1
85°	39.5	42.9	46.3	48.1	48.1
87.5°	12.0	20.6	22.3	24.0	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)