

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: P297755

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3959.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

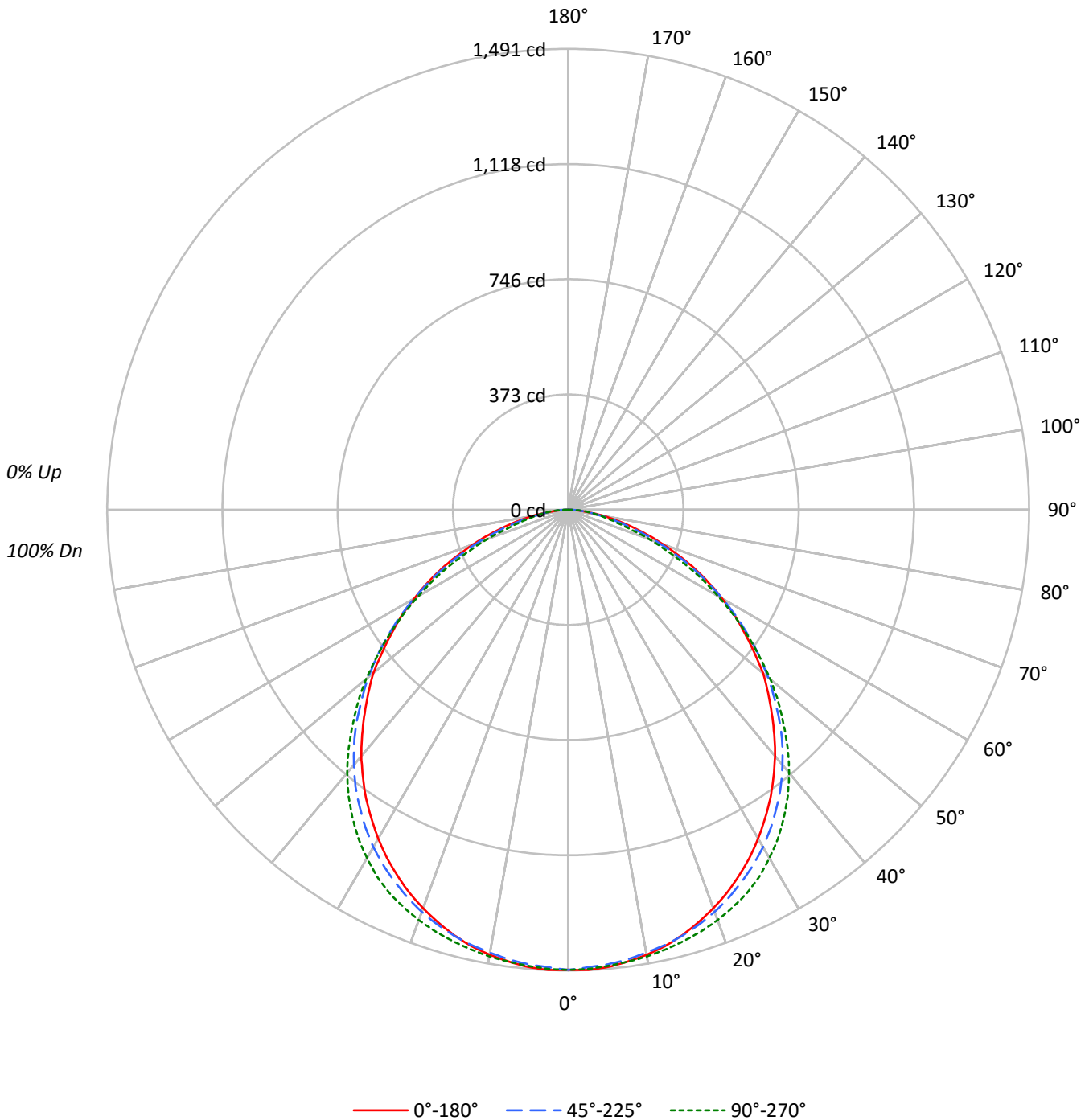
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	4007	4007	4007
5°	4012	3988	4003
10°	3996	3977	4010
15°	3970	3975	4025
20°	3929	3965	4046
25°	3880	3942	4063
30°	3818	3917	4043
35°	3745	3862	3996
40°	3657	3788	3906
45°	3544	3679	3753
50°	3446	3535	3572
55°	3272	3339	3323
60°	3097	3097	3011
65°	2875	2807	2649
70°	2549	2437	2201
75°	2208	2007	1694
80°	1810	1564	1536
85°	1201	1420	1531



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	3.6
10°-20°	404.1	10.2
20°-30°	614.2	15.5
30°-40°	735.3	18.6
40°-50°	741.7	18.7
50°-60°	631.8	16.0
60°-70°	432.0	10.9
70°-80°	206.8	5.2
80°-90°	52.4	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°	1159.0	29.3
0°-40°	1894.3	47.8
0°-60°	3267.8	82.5
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1485	1484	1476	1484	1482	141
15°	1425	1422	1427	1443	1445	402
25°	1307	1308	1328	1358	1368	602
35°	1140	1144	1176	1209	1216	712
45°	931	938	967	986	986	719
55°	698	701	712	714	708	624
65°	452	443	441	425	416	445
75°	212	209	193	168	163	227
85°	39	42	46	48	50	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1488.9	1488.9	1488.9	1488.9	1488.9
2.5°	1490.7	1488.9	1481.8	1488.9	1487.1
5°	1485.4	1483.6	1476.5	1483.6	1481.8
7.5°	1474.7	1473.0	1467.7	1474.7	1474.7
10°	1462.4	1458.8	1455.3	1465.9	1467.7
12.5°	1446.4	1442.9	1442.9	1455.3	1457.0
15°	1425.2	1421.6	1426.9	1442.9	1444.6
17.5°	1400.4	1398.6	1407.5	1426.9	1430.5
20°	1372.1	1370.3	1384.5	1407.5	1412.8
22.5°	1342.0	1342.0	1357.9	1384.5	1391.5
25°	1306.6	1308.3	1327.8	1357.9	1368.5
27.5°	1269.4	1272.9	1295.9	1329.6	1338.4
30°	1228.7	1234.0	1260.5	1292.4	1301.2
32.5°	1184.4	1189.7	1219.8	1253.4	1262.3
35°	1140.1	1143.7	1175.5	1209.2	1216.3
37.5°	1090.6	1095.9	1129.5	1159.6	1166.7
40°	1041.0	1046.3	1078.2	1106.5	1111.8
42.5°	986.1	993.2	1025.1	1048.1	1051.6
45°	931.2	938.3	966.6	986.1	986.1
47.5°	876.3	879.9	904.7	924.1	922.4
50°	823.2	821.5	844.5	853.3	853.3
52.5°	757.7	763.0	779.0	784.3	779.0
55°	697.5	701.1	711.7	713.5	708.2
57.5°	639.1	637.3	646.2	640.9	633.8
60°	575.4	575.4	575.4	570.1	559.4
62.5°	513.4	509.9	508.1	495.7	490.4
65°	451.5	442.6	440.8	424.9	416.0
67.5°	385.9	382.4	373.6	357.6	341.7
70°	324.0	320.4	309.8	290.3	279.7
72.5°	267.3	263.8	249.6	226.6	212.4
75°	212.4	208.9	193.0	168.2	162.9
77.5°	161.1	159.3	143.4	131.0	129.2
80°	116.8	115.1	100.9	100.9	99.1
82.5°	74.4	74.4	70.8	72.6	74.4
85°	38.9	42.5	46.0	47.8	49.6
87.5°	12.4	19.5	23.0	24.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)