

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: P298411

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3676.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

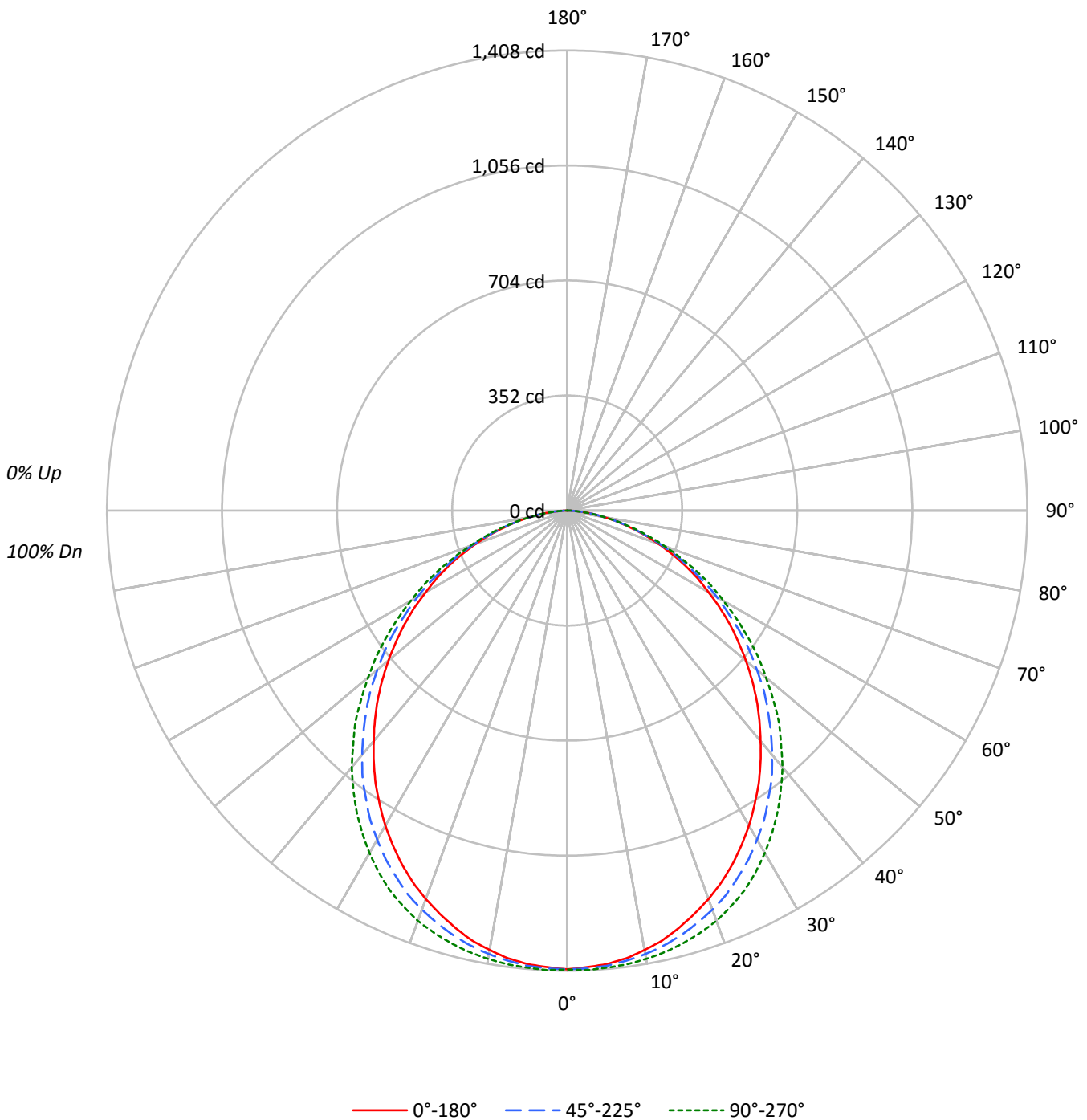
Input Watts (W): 32.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30		41	35	30		40	34	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°	3778	3778	3778
5°	3762	3777	3792
10°	3731	3766	3806
15°	3682	3748	3819
20°	3622	3721	3826
25°	3549	3674	3809
30°	3458	3611	3759
35°	3355	3529	3692
40°	3234	3427	3601
45°	3121	3309	3490
50°	2988	3172	3325
55°	2851	3023	3169
60°	2689	2847	2975
65°	2541	2634	2762
70°	2333	2405	2491
75°	2074	2131	2189
80°	1787	1759	1759
85°	1355	1244	1130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.6
10°-20°	379.6	10.3
20°-30°	569.9	15.5
30°-40°	670.7	18.2
40°-50°	669.0	18.2
50°-60°	574.1	15.6
60°-70°	411.2	11.2
70°-80°	217.8	5.9
80°-90°	50.9	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°	1082.3	29.4
0°-40°	1753.0	47.7
0°-60°	2996.2	81.5
0°-90°	3676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1393	1393	1398	1402	1404	132
15°	1322	1327	1345	1364	1371	373
25°	1195	1206	1237	1268	1283	550
35°	1021	1034	1074	1111	1124	638
45°	820	833	869	900	917	632
55°	608	617	644	666	675	543
65°	399	401	414	430	434	394
75°	200	200	205	209	210	214
85°	44	42	40	37	37	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1398.3	1398.3	1402.0	1405.7	1407.5
5°	1392.8	1392.8	1398.3	1402.0	1403.8
7.5°	1381.9	1381.9	1389.2	1396.5	1400.2
10°	1365.4	1369.1	1378.2	1389.2	1392.8
12.5°	1347.1	1350.8	1363.6	1378.2	1383.7
15°	1321.5	1327.0	1345.3	1363.6	1370.9
17.5°	1294.0	1301.3	1323.3	1345.3	1354.4
20°	1264.7	1272.1	1299.5	1325.1	1336.1
22.5°	1231.8	1240.9	1272.1	1299.5	1310.5
25°	1195.2	1206.2	1237.3	1268.4	1283.0
27.5°	1154.9	1167.7	1202.5	1235.4	1248.3
30°	1112.8	1127.5	1162.2	1197.0	1209.8
32.5°	1067.1	1079.9	1122.0	1154.9	1167.7
35°	1021.3	1034.1	1074.4	1111.0	1123.8
37.5°	971.9	988.4	1028.6	1061.6	1074.4
40°	920.6	937.1	975.5	1014.0	1025.0
42.5°	871.2	885.9	922.5	957.2	968.2
45°	820.0	832.8	869.4	900.5	917.0
47.5°	766.9	779.7	816.3	845.6	854.7
50°	713.8	726.6	757.7	783.4	794.3
52.5°	660.7	673.5	702.8	726.6	737.6
55°	607.7	616.8	644.3	666.2	675.4
57.5°	554.6	561.9	583.9	607.7	613.1
60°	499.7	508.8	529.0	545.4	552.7
62.5°	450.3	453.9	472.2	486.9	496.0
65°	399.0	400.8	413.6	430.1	433.8
67.5°	345.9	347.8	360.6	369.7	373.4
70°	296.5	296.5	305.7	313.0	316.6
72.5°	248.9	247.1	252.6	259.9	263.6
75°	199.5	199.5	205.0	208.7	210.5
77.5°	157.4	153.7	157.4	161.1	161.1
80°	115.3	113.5	113.5	115.3	113.5
82.5°	78.7	76.9	78.7	75.0	73.2
85°	43.9	42.1	40.3	36.6	36.6
87.5°	14.6	12.8	12.8	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)