

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: P298380

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298380  
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-44L82765-LD5-UNV-22-T1-W2A-2700K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4024.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 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

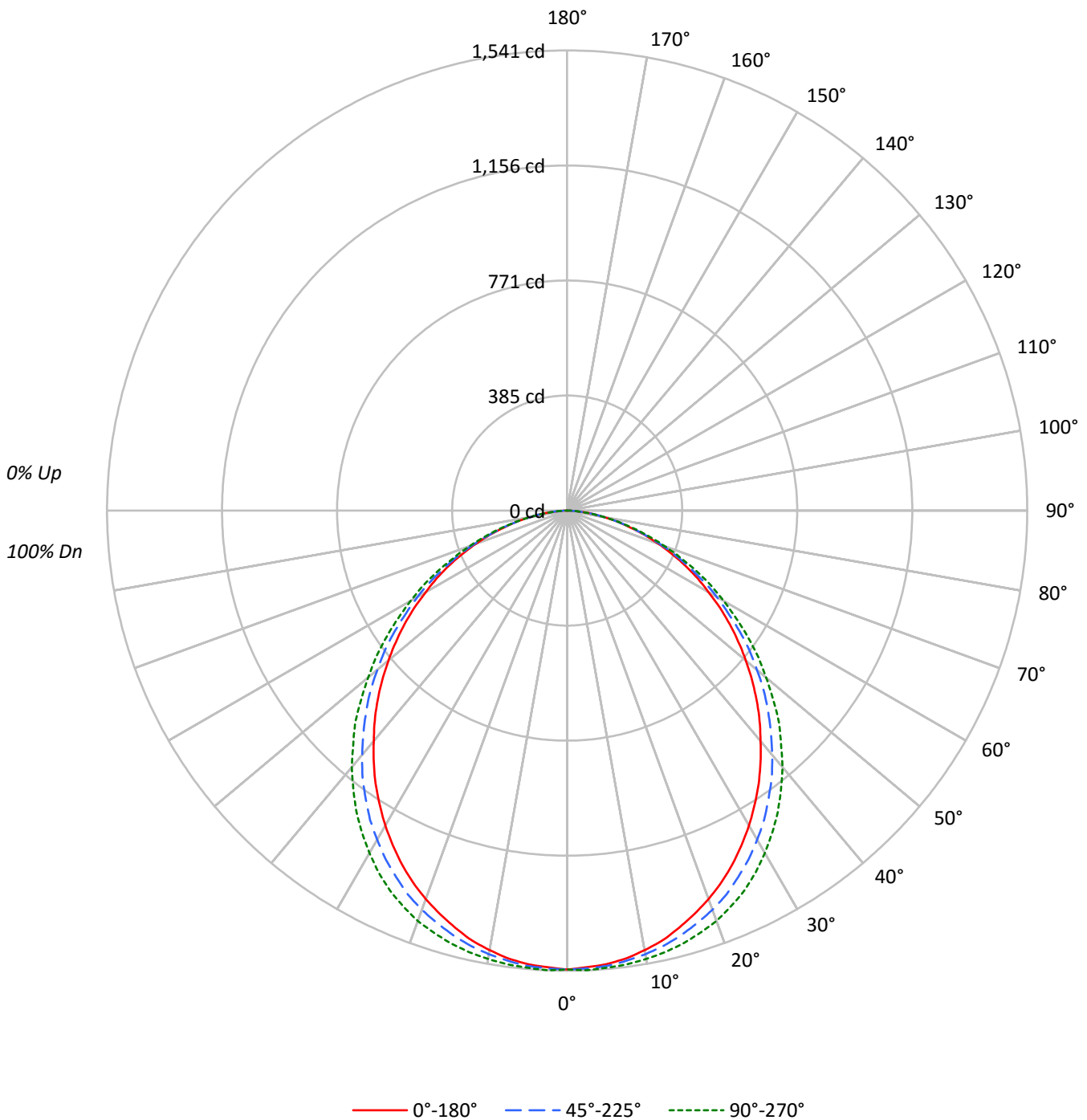
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

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

	0°	45°	90°
0°	4135	4135	4135
5°	4119	4135	4151
10°	4084	4123	4166
15°	4030	4103	4181
20°	3965	4074	4188
25°	3885	4021	4170
30°	3785	3953	4115
35°	3673	3864	4041
40°	3540	3751	3941
45°	3416	3622	3820
50°	3271	3473	3640
55°	3121	3309	3468
60°	2944	3116	3257
65°	2781	2883	3023
70°	2554	2633	2727
75°	2271	2333	2396
80°	1956	1925	1925
85°	1485	1362	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	3.6
10°-20°	415.5	10.3
20°-30°	623.9	15.5
30°-40°	734.2	18.2
40°-50°	732.4	18.2
50°-60°	628.5	15.6
60°-70°	450.1	11.2
70°-80°	238.4	5.9
80°-90°	55.7	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°	1184.8	29.4
0°-40°	1919.0	47.7
0°-60°	3279.8	81.5
0°-90°	4024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1525	1525	1531	1535	1537	145
15°	1447	1453	1473	1493	1501	408
25°	1308	1320	1354	1388	1404	602
35°	1118	1132	1176	1216	1230	698
45°	898	912	952	986	1004	692
55°	665	675	705	729	739	595
65°	437	439	453	471	475	431
75°	218	218	224	228	230	234
85°	48	46	44	40	40	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1530.7	1530.7	1534.7	1538.7	1540.7
5°	1524.7	1524.7	1530.7	1534.7	1536.7
7.5°	1512.7	1512.7	1520.7	1528.7	1532.7
10°	1494.7	1498.7	1508.7	1520.7	1524.7
12.5°	1474.6	1478.6	1492.7	1508.7	1514.7
15°	1446.6	1452.6	1472.6	1492.7	1500.7
17.5°	1416.5	1424.5	1448.6	1472.6	1482.6
20°	1384.5	1392.5	1422.5	1450.6	1462.6
22.5°	1348.4	1358.4	1392.5	1422.5	1434.5
25°	1308.3	1320.3	1354.4	1388.5	1404.5
27.5°	1264.2	1278.3	1316.3	1352.4	1366.4
30°	1218.2	1234.2	1272.3	1310.3	1324.4
32.5°	1168.1	1182.1	1228.2	1264.2	1278.3
35°	1118.0	1132.0	1176.1	1216.2	1230.2
37.5°	1063.9	1081.9	1126.0	1162.1	1176.1
40°	1007.8	1025.8	1067.9	1110.0	1122.0
42.5°	953.7	969.7	1009.8	1047.9	1059.9
45°	897.6	911.6	951.7	985.8	1003.8
47.5°	839.5	853.5	893.6	925.6	935.7
50°	781.4	795.4	829.5	857.5	869.5
52.5°	723.3	737.3	769.4	795.4	807.4
55°	665.2	675.2	705.3	729.3	739.3
57.5°	607.1	615.1	639.1	665.2	671.2
60°	547.0	557.0	579.0	597.1	605.1
62.5°	492.9	496.9	516.9	532.9	543.0
65°	436.8	438.8	452.8	470.8	474.8
67.5°	378.7	380.7	394.7	404.7	408.7
70°	324.6	324.6	334.6	342.6	346.6
72.5°	272.5	270.5	276.5	284.5	288.5
75°	218.4	218.4	224.4	228.4	230.4
77.5°	172.3	168.3	172.3	176.3	176.3
80°	126.2	124.2	124.2	126.2	124.2
82.5°	86.2	84.1	86.2	82.1	80.1
85°	48.1	46.1	44.1	40.1	40.1
87.5°	16.0	14.0	14.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)