

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: P298220

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-6500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4300.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

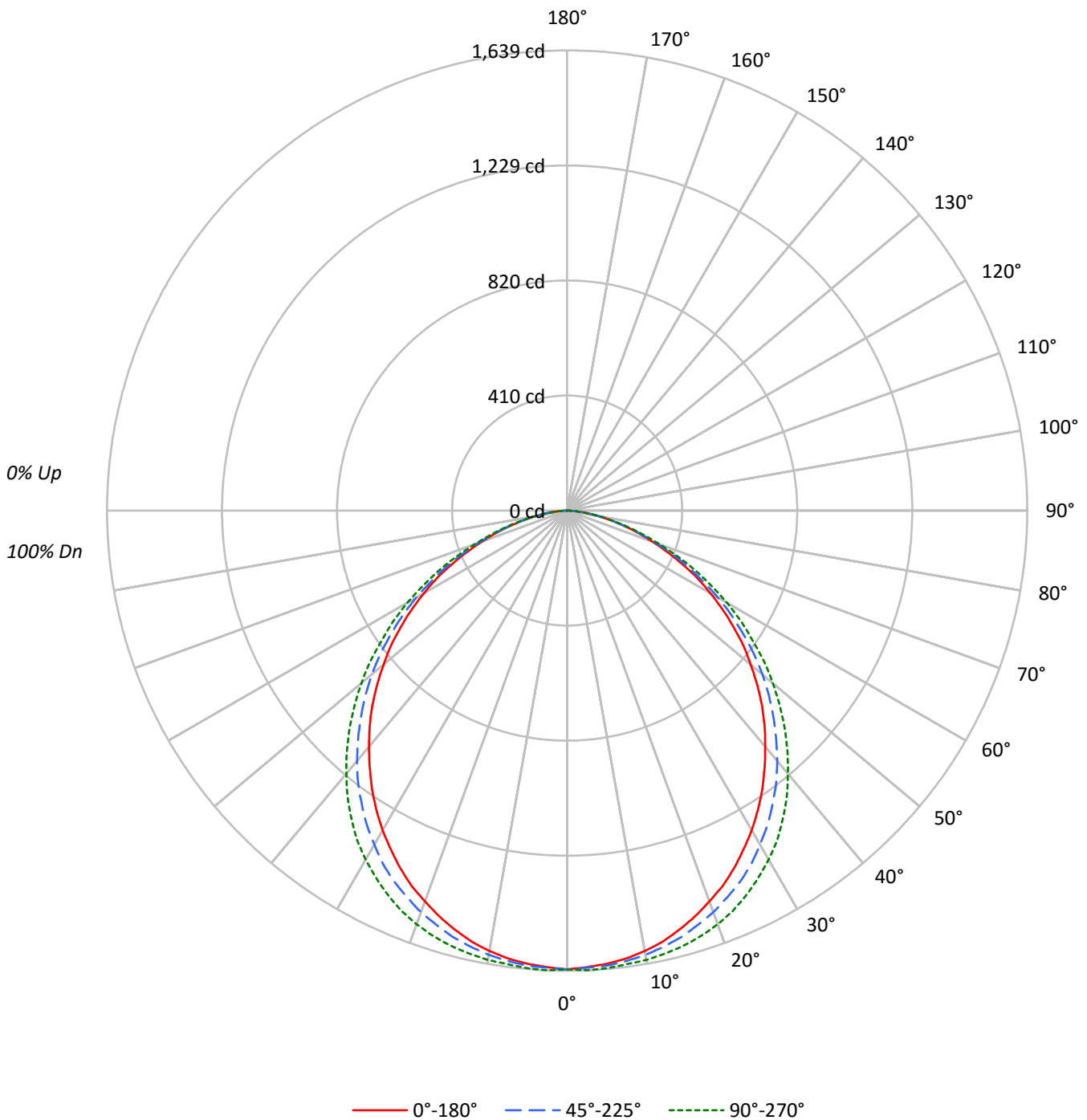
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	4397	4397	4397
5°	4377	4396	4420
10°	4353	4390	4440
15°	4305	4381	4470
20°	4242	4359	4490
25°	4174	4330	4486
30°	4085	4269	4460
35°	3981	4191	4401
40°	3856	4089	4297
45°	3735	3952	4169
50°	3574	3803	4003
55°	3394	3587	3780
60°	3169	3341	3538
65°	2892	3023	3197
70°	2532	2640	2747
75°	2159	2207	2302
80°	1733	1768	1804
85°	1269	1198	1127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	3.6
10°-20°	443.9	10.3
20°-30°	671.1	15.6
30°-40°	797.1	18.5
40°-50°	800.3	18.6
50°-60°	683.6	15.9
60°-70°	471.0	11.0
70°-80°	228.4	5.3
80°-90°	50.0	1.2
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°	1269.7	29.5
0°-40°	2066.9	48.1
0°-60°	3550.7	82.6
0°-90°	4300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1620	1620	1627	1632	1636	154
15°	1545	1552	1572	1593	1604	436
25°	1406	1417	1458	1497	1511	647
35°	1212	1230	1276	1324	1340	757
45°	981	995	1038	1082	1096	755
55°	724	735	765	796	806	647
65°	454	454	475	495	502	450
75°	208	203	212	217	221	223
85°	41	41	39	36	36	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1627.3	1627.3	1629.5	1636.4	1638.7
5°	1620.4	1620.4	1627.3	1631.8	1636.4
7.5°	1609.0	1611.3	1618.1	1627.3	1629.5
10°	1593.0	1595.3	1606.7	1618.1	1625.0
12.5°	1572.5	1577.0	1590.7	1609.0	1615.8
15°	1545.1	1551.9	1572.5	1593.0	1604.4
17.5°	1515.4	1524.6	1547.4	1577.0	1588.5
20°	1481.2	1492.6	1522.3	1554.2	1567.9
22.5°	1447.0	1456.1	1490.3	1526.8	1542.8
25°	1405.9	1417.3	1458.4	1497.2	1510.9
27.5°	1360.2	1376.2	1419.6	1460.6	1474.3
30°	1314.6	1328.3	1373.9	1419.6	1435.5
32.5°	1264.4	1278.1	1328.3	1373.9	1392.2
35°	1211.9	1230.1	1275.8	1323.7	1339.7
37.5°	1154.8	1175.4	1223.3	1264.4	1284.9
40°	1097.8	1116.0	1164.0	1207.3	1223.3
42.5°	1040.7	1056.7	1102.3	1148.0	1161.7
45°	981.4	995.1	1038.4	1081.8	1095.5
47.5°	917.5	933.4	974.5	1011.0	1027.0
50°	853.6	869.5	908.3	942.6	956.3
52.5°	791.9	801.1	837.6	869.5	885.5
55°	723.5	734.9	764.6	796.5	805.6
57.5°	657.3	664.1	693.8	721.2	734.9
60°	588.8	593.4	620.8	641.3	657.3
62.5°	524.9	524.9	545.5	568.3	577.4
65°	454.2	454.2	474.7	495.3	502.1
67.5°	385.7	390.3	404.0	419.9	424.5
70°	321.8	321.8	335.5	346.9	349.2
72.5°	264.7	262.5	269.3	278.4	283.0
75°	207.7	203.1	212.3	216.8	221.4
77.5°	157.5	155.2	159.8	164.3	164.3
80°	111.8	109.5	114.1	114.1	116.4
82.5°	73.0	75.3	75.3	73.0	70.8
85°	41.1	41.1	38.8	36.5	36.5
87.5°	13.7	13.7	13.7	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)