

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: P298160

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298160  
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-40L83050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3982.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 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

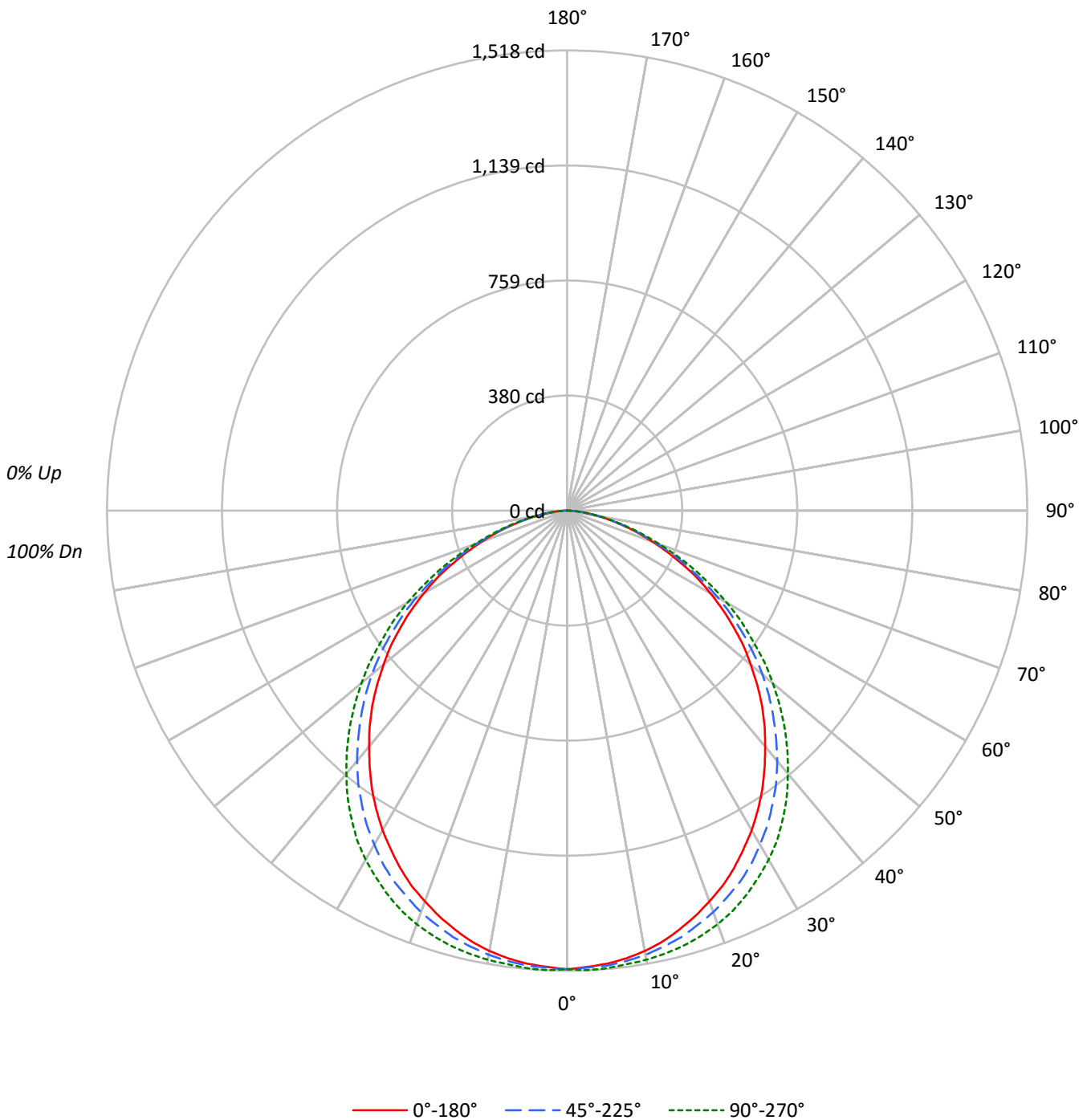
Input Watts (W): 33.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P298160

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P298160

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28

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

	0°	45°	90°
0°	4072	4072	4072
5°	4054	4071	4093
10°	4031	4066	4112
15°	3986	4057	4139
20°	3928	4037	4158
25°	3866	4010	4154
30°	3783	3953	4131
35°	3687	3881	4075
40°	3571	3786	3979
45°	3459	3659	3861
50°	3309	3522	3707
55°	3143	3322	3500
60°	2935	3094	3276
65°	2678	2799	2961
70°	2345	2445	2544
75°	1999	2044	2131
80°	1605	1638	1671
85°	1173	1108	1044



TEST NUMBER: P298160

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	3.6
10°-20°	411.1	10.3
20°-30°	621.5	15.6
30°-40°	738.2	18.5
40°-50°	741.1	18.6
50°-60°	633.0	15.9
60°-70°	436.1	11.0
70°-80°	211.5	5.3
80°-90°	46.3	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°	1175.8	29.5
0°-40°	1914.0	48.1
0°-60°	3288.1	82.6
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1501	1501	1507	1511	1515	142
15°	1431	1437	1456	1475	1486	403
25°	1302	1312	1350	1386	1399	599
35°	1122	1139	1181	1226	1241	701
45°	909	922	962	1002	1014	700
55°	670	680	708	738	746	599
65°	421	421	440	459	465	417
75°	192	188	197	201	205	207
85°	38	38	36	34	34	46
90°	0	0	0	0	0	



TEST NUMBER: P298160

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-22-T1-W2A-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1506.9	1506.9	1509.0	1515.4	1517.5
5°	1500.6	1500.6	1506.9	1511.1	1515.4
7.5°	1490.0	1492.1	1498.5	1506.9	1509.0
10°	1475.2	1477.3	1487.9	1498.5	1504.8
12.5°	1456.2	1460.4	1473.1	1490.0	1496.3
15°	1430.8	1437.2	1456.2	1475.2	1485.8
17.5°	1403.4	1411.8	1432.9	1460.4	1471.0
20°	1371.6	1382.2	1409.7	1439.3	1452.0
22.5°	1339.9	1348.4	1380.1	1413.9	1428.7
25°	1301.9	1312.5	1350.5	1386.4	1399.1
27.5°	1259.6	1274.4	1314.6	1352.6	1365.3
30°	1217.4	1230.0	1272.3	1314.6	1329.4
32.5°	1170.9	1183.5	1230.0	1272.3	1289.2
35°	1122.3	1139.2	1181.4	1225.8	1240.6
37.5°	1069.4	1088.4	1132.8	1170.9	1189.9
40°	1016.6	1033.5	1077.9	1118.0	1132.8
42.5°	963.7	978.5	1020.8	1063.1	1075.8
45°	908.8	921.5	961.6	1001.8	1014.5
47.5°	849.6	864.4	902.5	936.3	951.1
50°	790.4	805.2	841.2	872.9	885.5
52.5°	733.4	741.8	775.6	805.2	820.0
55°	670.0	680.5	708.0	737.6	746.1
57.5°	608.7	615.0	642.5	667.9	680.5
60°	545.3	549.5	574.9	593.9	608.7
62.5°	486.1	486.1	505.1	526.3	534.7
65°	420.6	420.6	439.6	458.6	465.0
67.5°	357.2	361.4	374.1	388.9	393.1
70°	298.0	298.0	310.7	321.2	323.4
72.5°	245.2	243.1	249.4	257.8	262.1
75°	192.3	188.1	196.6	200.8	205.0
77.5°	145.8	143.7	147.9	152.2	152.2
80°	103.6	101.4	105.7	105.7	107.8
82.5°	67.6	69.7	69.7	67.6	65.5
85°	38.0	38.0	35.9	33.8	33.8
87.5°	12.7	12.7	12.7	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)