

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: P298291

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298291
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-40L92765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3404.0 lumens
Efficiency: N/A
Efficacy: 104.4 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

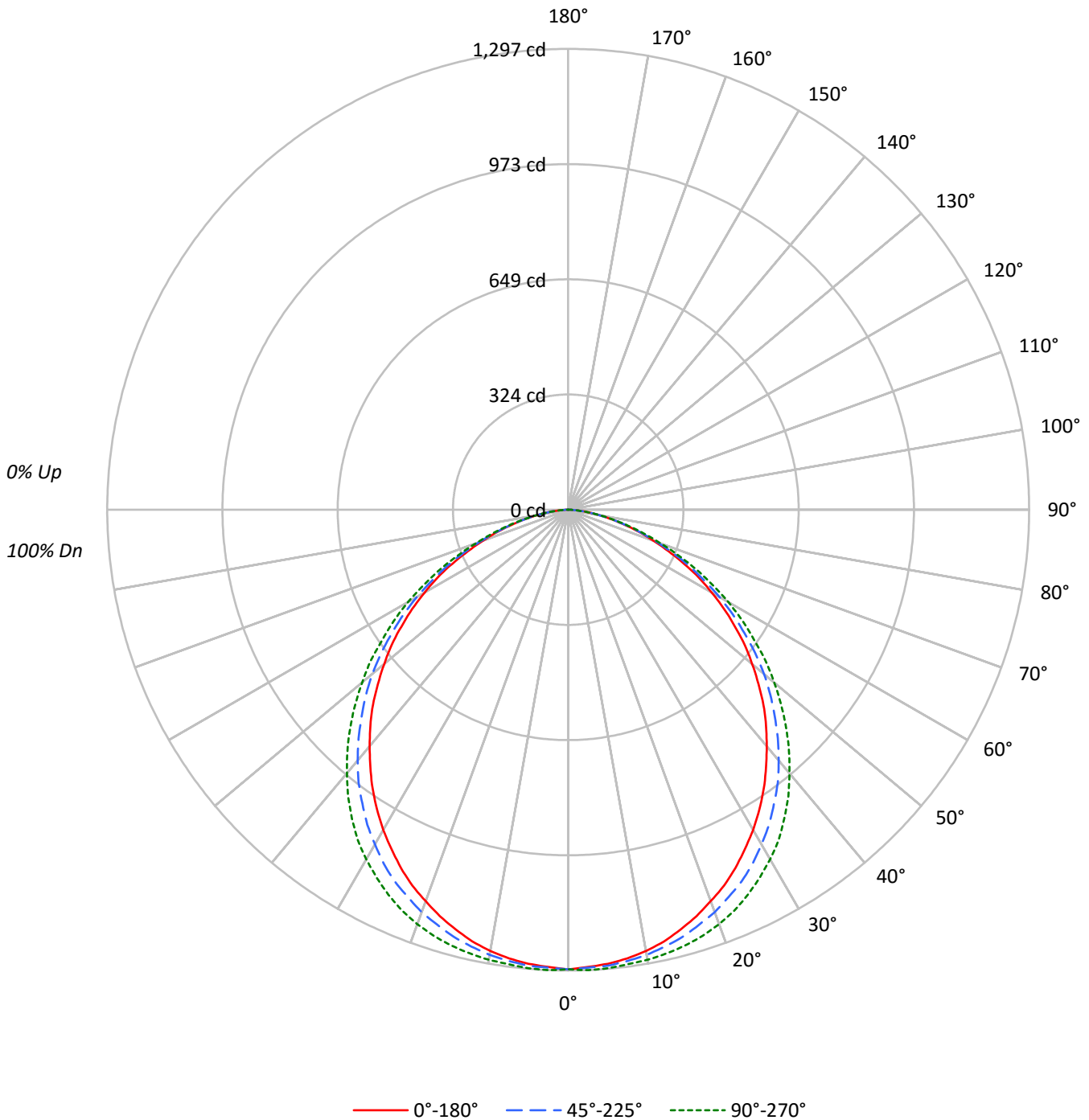
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3481	3481	3481
5°	3465	3480	3499
10°	3446	3475	3515
15°	3407	3468	3538
20°	3358	3451	3554
25°	3304	3428	3551
30°	3234	3379	3531
35°	3152	3318	3484
40°	3053	3237	3402
45°	2957	3128	3300
50°	2829	3010	3169
55°	2687	2839	2992
60°	2509	2645	2800
65°	2289	2393	2531
70°	2004	2090	2175
75°	1709	1747	1823
80°	1371	1399	1427
85°	1003	948	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.6
10°-20°	351.4	10.3
20°-30°	531.3	15.6
30°-40°	631.0	18.5
40°-50°	633.5	18.6
50°-60°	541.1	15.9
60°-70°	372.8	11.0
70°-80°	180.8	5.3
80°-90°	39.5	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°	1005.2	29.5
0°-40°	1636.2	48.1
0°-60°	2810.9	82.6
0°-90°	3404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1283	1283	1288	1292	1295	122
15°	1223	1229	1245	1261	1270	345
25°	1113	1122	1154	1185	1196	512
35°	959	974	1010	1048	1060	599
45°	777	788	822	856	867	598
55°	573	582	605	630	638	512
65°	360	360	376	392	398	356
75°	164	161	168	172	175	177
85°	32	32	31	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1288.2	1288.2	1290.0	1295.4	1297.2
5°	1282.8	1282.8	1288.2	1291.8	1295.4
7.5°	1273.7	1275.5	1281.0	1288.2	1290.0
10°	1261.1	1262.9	1271.9	1281.0	1286.4
12.5°	1244.8	1248.4	1259.3	1273.7	1279.1
15°	1223.1	1228.6	1244.8	1261.1	1270.1
17.5°	1199.6	1206.9	1224.9	1248.4	1257.5
20°	1172.5	1181.6	1205.1	1230.4	1241.2
22.5°	1145.4	1152.7	1179.8	1208.7	1221.3
25°	1112.9	1122.0	1154.5	1185.2	1196.0
27.5°	1076.8	1089.4	1123.8	1156.3	1167.1
30°	1040.7	1051.5	1087.6	1123.8	1136.4
32.5°	1000.9	1011.8	1051.5	1087.6	1102.1
35°	959.4	973.8	1009.9	1047.9	1060.5
37.5°	914.2	930.5	968.4	1000.9	1017.2
40°	869.0	883.5	921.4	955.7	968.4
42.5°	823.9	836.5	872.6	908.8	919.6
45°	776.9	787.7	822.0	856.4	867.2
47.5°	726.3	738.9	771.5	800.4	813.0
50°	675.7	688.4	719.1	746.2	757.0
52.5°	626.9	634.2	663.1	688.4	701.0
55°	572.7	581.8	605.2	630.5	637.8
57.5°	520.3	525.8	549.2	570.9	581.8
60°	466.1	469.7	491.4	507.7	520.3
62.5°	415.5	415.5	431.8	449.9	457.1
65°	359.5	359.5	375.8	392.1	397.5
67.5°	305.3	308.9	319.8	332.4	336.0
70°	254.7	254.7	265.6	274.6	276.4
72.5°	209.6	207.8	213.2	220.4	224.0
75°	164.4	160.8	168.0	171.6	175.3
77.5°	124.7	122.9	126.5	130.1	130.1
80°	88.5	86.7	90.3	90.3	92.1
82.5°	57.8	59.6	59.6	57.8	56.0
85°	32.5	32.5	30.7	28.9	28.9
87.5°	10.8	10.8	10.8	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)