

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: P298243

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298243
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-40L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

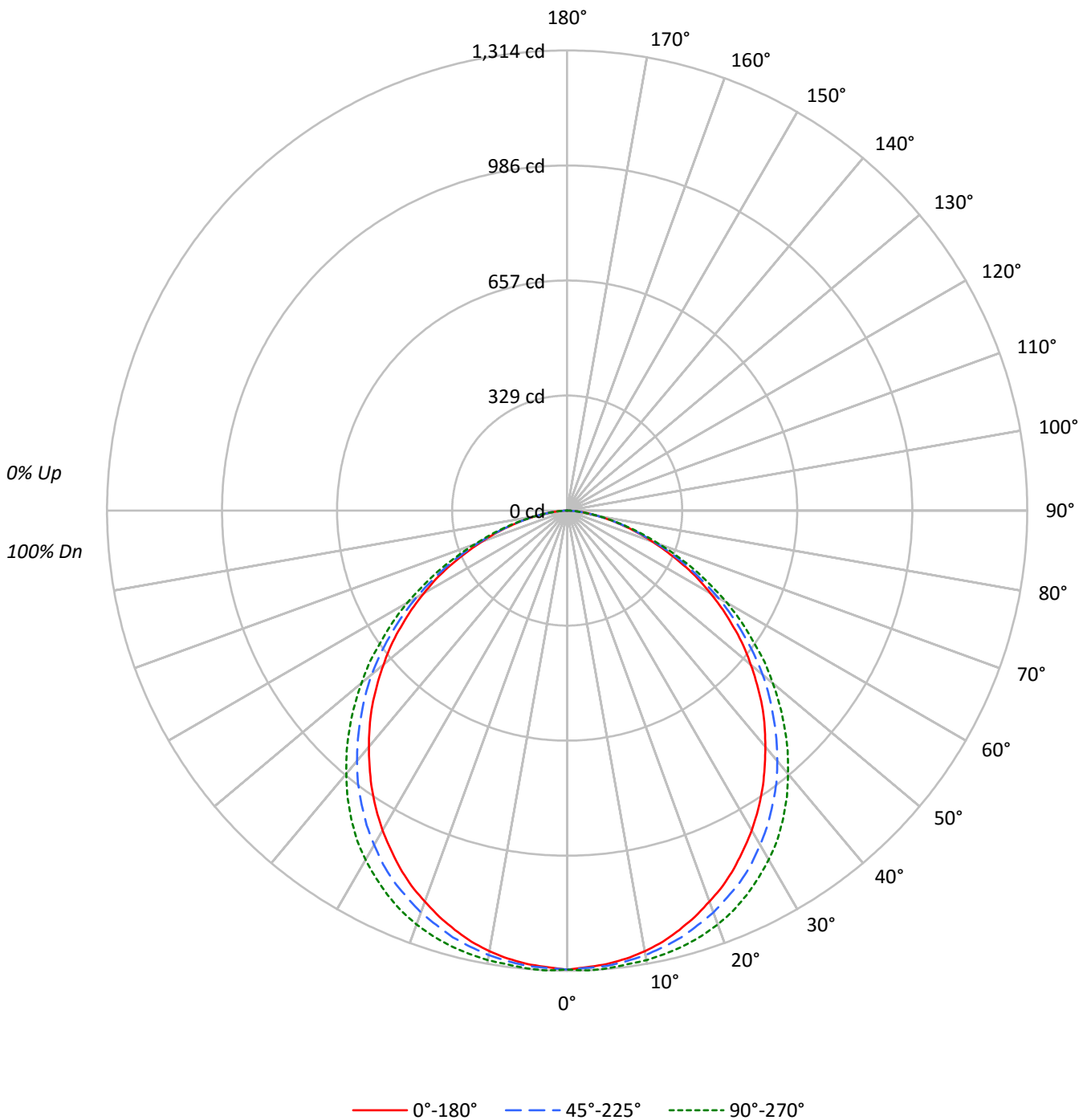
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3527	3527	3527
5°	3511	3526	3545
10°	3491	3521	3562
15°	3453	3514	3585
20°	3402	3497	3601
25°	3348	3473	3598
30°	3276	3424	3578
35°	3193	3362	3530
40°	3093	3280	3447
45°	2996	3170	3344
50°	2866	3050	3211
55°	2723	2877	3032
60°	2542	2680	2837
65°	2320	2425	2564
70°	2031	2117	2204
75°	1732	1770	1847
80°	1390	1418	1447
85°	1019	960	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.6
10°-20°	356.1	10.3
20°-30°	538.3	15.6
30°-40°	639.4	18.5
40°-50°	641.9	18.6
50°-60°	548.3	15.9
60°-70°	377.7	11.0
70°-80°	183.2	5.3
80°-90°	40.1	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°	1018.4	29.5
0°-40°	1657.8	48.1
0°-60°	2848.0	82.6
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1300	1300	1305	1309	1312	123
15°	1239	1245	1261	1278	1287	349
25°	1128	1137	1170	1201	1212	519
35°	972	987	1023	1062	1075	607
45°	787	798	833	868	879	606
55°	580	589	613	639	646	519
65°	364	364	381	397	403	361
75°	167	163	170	174	178	179
85°	33	33	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°	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1305.2	1305.2	1307.0	1312.5	1314.4
5°	1299.7	1299.7	1305.2	1308.9	1312.5
7.5°	1290.6	1292.4	1297.9	1305.2	1307.0
10°	1277.7	1279.6	1288.7	1297.9	1303.4
12.5°	1261.3	1264.9	1275.9	1290.6	1296.1
15°	1239.3	1244.8	1261.3	1277.7	1286.9
17.5°	1215.5	1222.8	1241.1	1264.9	1274.1
20°	1188.0	1197.2	1221.0	1246.6	1257.6
22.5°	1160.6	1167.9	1195.4	1224.7	1237.5
25°	1127.6	1136.8	1169.7	1200.9	1211.8
27.5°	1091.0	1103.8	1138.6	1171.6	1182.6
30°	1054.4	1065.4	1102.0	1138.6	1151.4
32.5°	1014.1	1025.1	1065.4	1102.0	1116.7
35°	972.0	986.7	1023.3	1061.7	1074.6
37.5°	926.3	942.8	981.2	1014.1	1030.6
40°	880.5	895.2	933.6	968.4	981.2
42.5°	834.7	847.6	884.2	920.8	931.8
45°	787.2	798.1	832.9	867.7	878.7
47.5°	735.9	748.7	781.7	810.9	823.8
50°	684.6	697.5	728.6	756.0	767.0
52.5°	635.2	642.5	671.8	697.5	710.3
55°	580.3	589.4	613.2	638.9	646.2
57.5°	527.2	532.7	556.5	578.5	589.4
60°	472.3	476.0	497.9	514.4	527.2
62.5°	421.0	421.0	437.5	455.8	463.1
65°	364.3	364.3	380.8	397.2	402.7
67.5°	309.4	313.0	324.0	336.8	340.5
70°	258.1	258.1	269.1	278.2	280.1
72.5°	212.3	210.5	216.0	223.3	227.0
75°	166.6	162.9	170.2	173.9	177.6
77.5°	126.3	124.5	128.1	131.8	131.8
80°	89.7	87.9	91.5	91.5	93.4
82.5°	58.6	60.4	60.4	58.6	56.7
85°	33.0	33.0	31.1	29.3	29.3
87.5°	11.0	11.0	11.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)