

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: P298221

Luminaire Tested: **D3X-WG-20L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298221
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-20L93050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1464.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

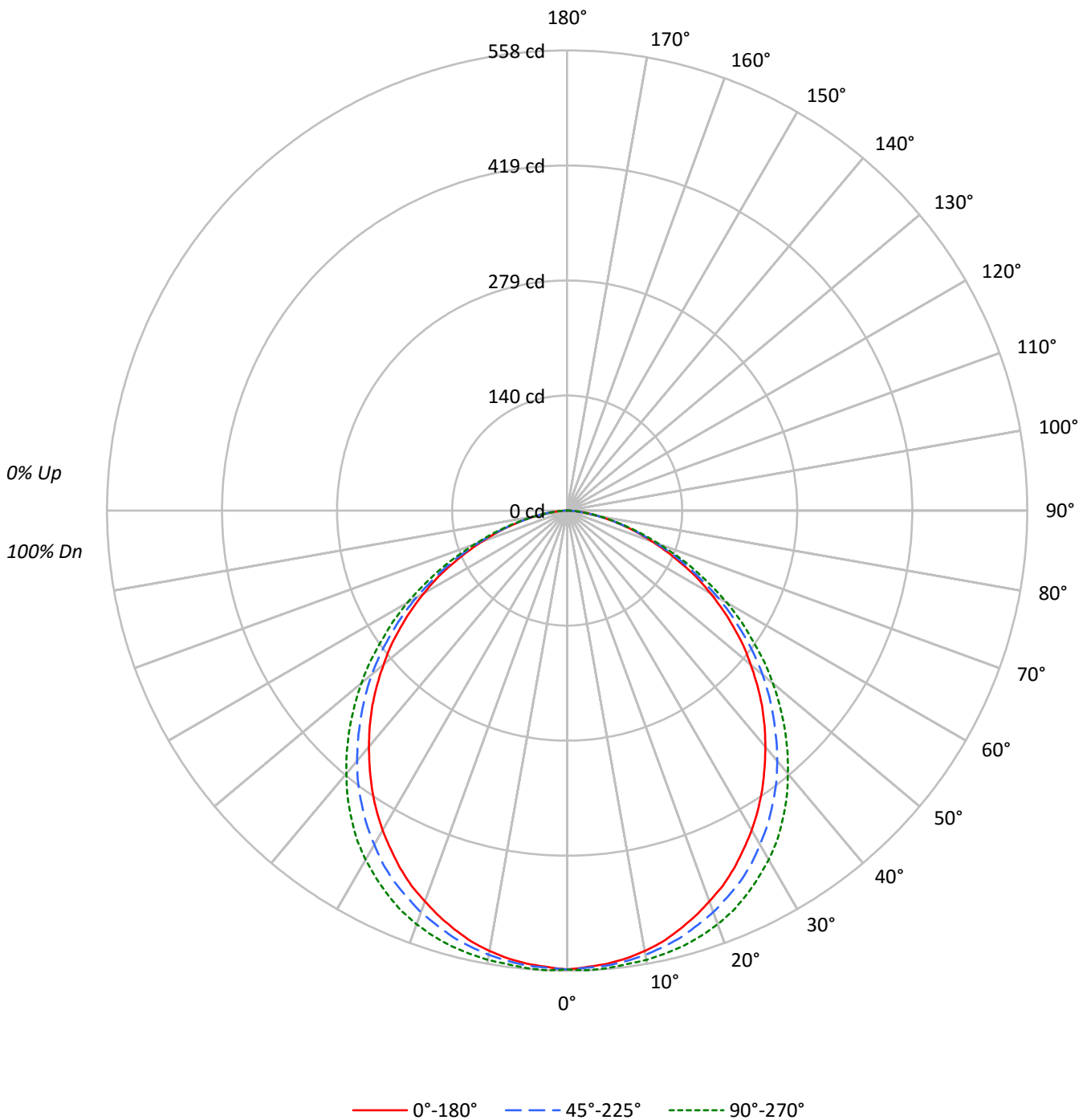
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1497	1497	1497
5°	1490	1496	1505
10°	1482	1495	1512
15°	1465	1492	1522
20°	1444	1484	1529
25°	1421	1474	1527
30°	1391	1454	1519
35°	1355	1427	1498
40°	1313	1392	1463
45°	1271	1345	1419
50°	1217	1295	1363
55°	1156	1221	1287
60°	1079	1138	1204
65°	984	1029	1088
70°	862	899	935
75°	735	752	784
80°	590	603	614
85°	432	408	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	3.6
10°-20°	151.1	10.3
20°-30°	228.5	15.6
30°-40°	271.4	18.5
40°-50°	272.5	18.6
50°-60°	232.7	15.9
60°-70°	160.3	11.0
70°-80°	77.8	5.3
80°-90°	17.0	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°	432.3	29.5
0°-40°	703.7	48.1
0°-60°	1208.9	82.6
0°-90°	1464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	552	552	554	556	557	52
15°	526	528	535	542	546	148
25°	479	482	496	510	514	220
35°	413	419	434	451	456	258
45°	334	339	354	368	373	257
55°	246	250	260	271	274	220
65°	155	155	162	169	171	153
75°	71	69	72	74	75	76
85°	14	14	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.4	556.4	556.4	556.4	556.4
2.5°	554.0	554.0	554.8	557.1	557.9
5°	551.7	551.7	554.0	555.6	557.1
7.5°	547.8	548.6	550.9	554.0	554.8
10°	542.4	543.1	547.0	550.9	553.2
12.5°	535.4	536.9	541.6	547.8	550.1
15°	526.0	528.4	535.4	542.4	546.3
17.5°	515.9	519.1	526.8	536.9	540.8
20°	504.3	508.2	518.3	529.2	533.8
22.5°	492.6	495.7	507.4	519.8	525.3
25°	478.7	482.5	496.5	509.7	514.4
27.5°	463.1	468.5	483.3	497.3	502.0
30°	447.6	452.2	467.8	483.3	488.8
32.5°	430.5	435.1	452.2	467.8	474.0
35°	412.6	418.8	434.4	450.7	456.1
37.5°	393.2	400.2	416.5	430.5	437.5
40°	373.8	380.0	396.3	411.0	416.5
42.5°	354.3	359.8	375.3	390.8	395.5
45°	334.1	338.8	353.5	368.3	373.0
47.5°	312.4	317.8	331.8	344.2	349.7
50°	290.6	296.0	309.3	320.9	325.6
52.5°	269.6	272.7	285.2	296.0	301.5
55°	246.3	250.2	260.3	271.2	274.3
57.5°	223.8	226.1	236.2	245.5	250.2
60°	200.5	202.0	211.4	218.3	223.8
62.5°	178.7	178.7	185.7	193.5	196.6
65°	154.6	154.6	161.6	168.6	170.9
67.5°	131.3	132.9	137.5	143.0	144.5
70°	109.6	109.6	114.2	118.1	118.9
72.5°	90.1	89.4	91.7	94.8	96.4
75°	70.7	69.2	72.3	73.8	75.4
77.5°	53.6	52.8	54.4	55.9	55.9
80°	38.1	37.3	38.9	38.9	39.6
82.5°	24.9	25.6	25.6	24.9	24.1
85°	14.0	14.0	13.2	12.4	12.4
87.5°	4.7	4.7	4.7	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)