

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: P298247

Luminaire Tested: **D3X-WG-44L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298247
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-44L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3497.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

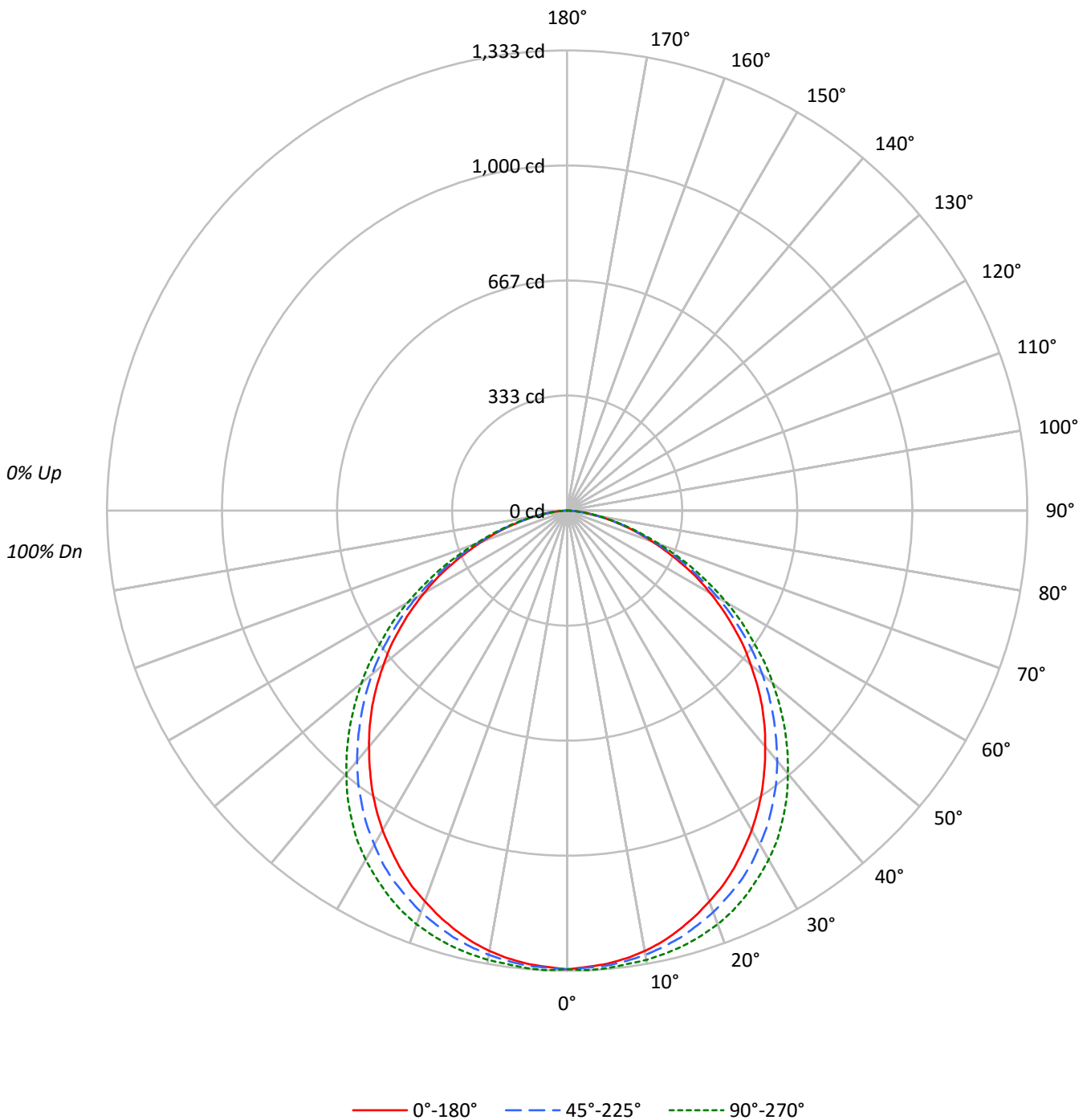
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3576	3576	3576
5°	3560	3575	3595
10°	3540	3571	3611
15°	3501	3563	3635
20°	3450	3545	3651
25°	3395	3521	3648
30°	3322	3472	3628
35°	3238	3408	3579
40°	3136	3325	3495
45°	3037	3214	3390
50°	2906	3093	3256
55°	2761	2917	3074
60°	2577	2717	2877
65°	2352	2458	2600
70°	2059	2146	2234
75°	1756	1795	1871
80°	1409	1438	1468
85°	1031	976	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.6
10°-20°	361.0	10.3
20°-30°	545.8	15.6
30°-40°	648.3	18.5
40°-50°	650.8	18.6
50°-60°	555.9	15.9
60°-70°	383.0	11.0
70°-80°	185.7	5.3
80°-90°	40.6	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°	1032.6	29.5
0°-40°	1680.9	48.1
0°-60°	2887.6	82.6
0°-90°	3497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1318	1318	1323	1327	1331	125
15°	1257	1262	1279	1296	1305	354
25°	1143	1153	1186	1218	1229	526
35°	986	1000	1038	1076	1090	616
45°	798	809	844	880	891	614
55°	588	598	622	648	655	526
65°	369	369	386	403	408	366
75°	169	165	173	176	180	181
85°	33	33	32	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.9	1328.9	1328.9	1328.9	1328.9
2.5°	1323.4	1323.4	1325.2	1330.8	1332.7
5°	1317.8	1317.8	1323.4	1327.1	1330.8
7.5°	1308.5	1310.4	1315.9	1323.4	1325.2
10°	1295.5	1297.4	1306.7	1315.9	1321.5
12.5°	1278.8	1282.5	1293.7	1308.5	1314.1
15°	1256.6	1262.1	1278.8	1295.5	1304.8
17.5°	1232.4	1239.8	1258.4	1282.5	1291.8
20°	1204.6	1213.9	1238.0	1264.0	1275.1
22.5°	1176.7	1184.2	1212.0	1241.7	1254.7
25°	1143.3	1152.6	1186.0	1217.6	1228.7
27.5°	1106.2	1119.2	1154.5	1187.9	1199.0
30°	1069.1	1080.2	1117.3	1154.5	1167.5
32.5°	1028.3	1039.4	1080.2	1117.3	1132.2
35°	985.6	1000.4	1037.5	1076.5	1089.5
37.5°	939.2	955.9	994.8	1028.3	1045.0
40°	892.8	907.6	946.6	981.9	994.8
42.5°	846.4	859.4	896.5	933.6	944.7
45°	798.1	809.2	844.5	879.8	890.9
47.5°	746.1	759.1	792.5	822.2	835.2
50°	694.2	707.2	738.7	766.6	777.7
52.5°	644.1	651.5	681.2	707.2	720.2
55°	588.4	597.7	621.8	647.8	655.2
57.5°	534.5	540.1	564.2	586.5	597.7
60°	478.9	482.6	504.8	521.6	534.5
62.5°	426.9	426.9	443.6	462.2	469.6
65°	369.4	369.4	386.1	402.8	408.3
67.5°	313.7	317.4	328.5	341.5	345.2
70°	261.7	261.7	272.8	282.1	284.0
72.5°	215.3	213.4	219.0	226.4	230.2
75°	168.9	165.2	172.6	176.3	180.0
77.5°	128.1	126.2	129.9	133.6	133.6
80°	90.9	89.1	92.8	92.8	94.7
82.5°	59.4	61.3	61.3	59.4	57.5
85°	33.4	33.4	31.6	29.7	29.7
87.5°	11.1	11.1	11.1	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)