

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: P298082

Luminaire Tested: **D3X-WD-44L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L93050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3790.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

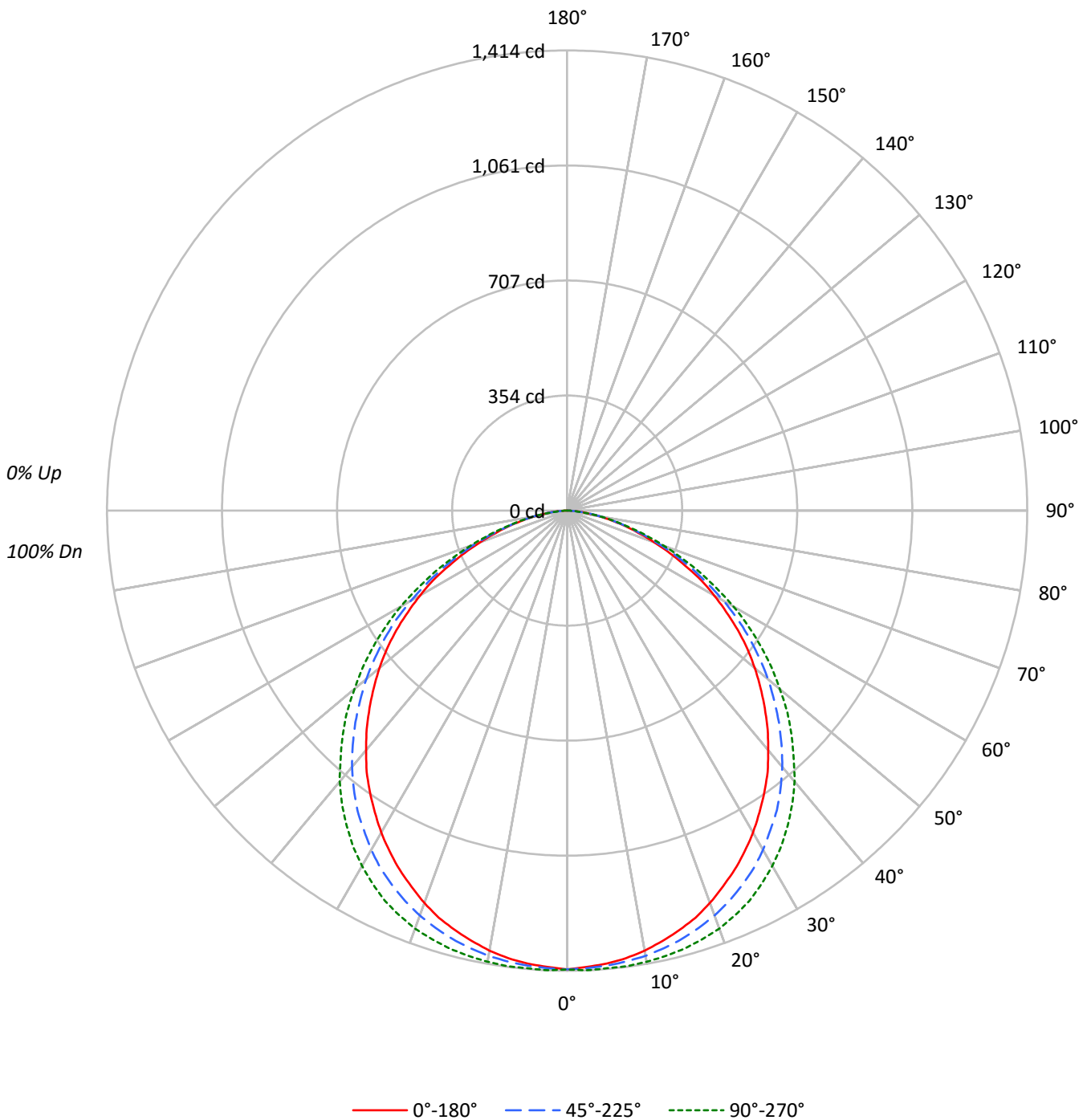
Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																												
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																												
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3793	3793	3793
5°	3775	3791	3813
10°	3751	3796	3846
15°	3717	3796	3882
20°	3675	3792	3914
25°	3616	3774	3931
30°	3550	3740	3917
35°	3471	3693	3880
40°	3375	3612	3819
45°	3269	3502	3711
50°	3152	3373	3570
55°	3005	3206	3407
60°	2810	2986	3184
65°	2546	2702	2870
70°	2247	2360	2488
75°	1930	1972	2058
80°	1550	1581	1612
85°	1133	1007	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.5
10°-20°	384.8	10.2
20°-30°	585.3	15.4
30°-40°	700.3	18.5
40°-50°	707.9	18.7
50°-60°	609.2	16.1
60°-70°	420.6	11.1
70°-80°	204.0	5.4
80°-90°	44.2	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°	1103.7	29.1
0°-40°	1804.0	47.6
0°-60°	3121.2	82.4
0°-90°	3790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1397	1400	1404	1410	1412	133
15°	1334	1342	1363	1383	1393	376
25°	1218	1232	1271	1310	1324	561
35°	1057	1075	1124	1165	1181	661
45°	859	875	920	959	975	663
55°	641	651	683	714	726	571
65°	400	406	424	443	451	398
75°	186	182	190	196	198	197
85°	37	37	33	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1403.5	1403.5	1407.6	1411.7	1413.7
5°	1397.4	1399.5	1403.5	1409.7	1411.7
7.5°	1387.2	1389.3	1397.4	1407.6	1411.7
10°	1372.9	1377.0	1389.3	1401.5	1407.6
12.5°	1354.6	1362.7	1377.0	1393.3	1401.5
15°	1334.2	1342.3	1362.7	1383.1	1393.3
17.5°	1311.7	1319.9	1344.4	1370.9	1381.1
20°	1283.2	1295.4	1324.0	1354.6	1366.8
22.5°	1250.5	1266.9	1299.5	1332.1	1346.4
25°	1217.9	1232.2	1270.9	1309.7	1324.0
27.5°	1181.2	1197.5	1240.3	1279.1	1293.4
30°	1142.4	1158.7	1203.6	1246.5	1260.7
32.5°	1099.6	1120.0	1162.8	1207.7	1224.0
35°	1056.7	1075.1	1124.1	1164.9	1181.2
37.5°	1011.9	1028.2	1077.1	1120.0	1136.3
40°	960.9	979.2	1028.2	1071.0	1087.3
42.5°	911.9	930.3	975.1	1015.9	1030.2
45°	858.9	875.2	920.1	958.8	975.1
47.5°	805.8	824.2	862.9	901.7	918.0
50°	752.8	767.0	805.8	842.5	852.7
52.5°	697.7	709.9	744.6	777.2	791.5
55°	640.6	650.8	683.4	714.0	726.2
57.5°	579.4	591.6	622.2	644.6	658.9
60°	522.2	528.4	554.9	577.3	591.6
62.5°	465.1	467.2	487.6	510.0	518.2
65°	399.8	406.0	424.3	442.7	450.8
67.5°	340.7	346.8	361.1	375.4	381.5
70°	285.6	285.6	299.9	310.1	316.2
72.5°	230.5	232.6	242.8	248.9	255.0
75°	185.6	181.6	189.7	195.8	197.9
77.5°	138.7	136.7	142.8	144.8	148.9
80°	100.0	100.0	102.0	104.0	104.0
82.5°	65.3	65.3	67.3	63.2	61.2
85°	36.7	36.7	32.6	32.6	32.6
87.5°	12.2	12.2	12.2	14.3	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)