

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: P297705

Luminaire Tested: **D3X-WG-35L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-35L83050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3379.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

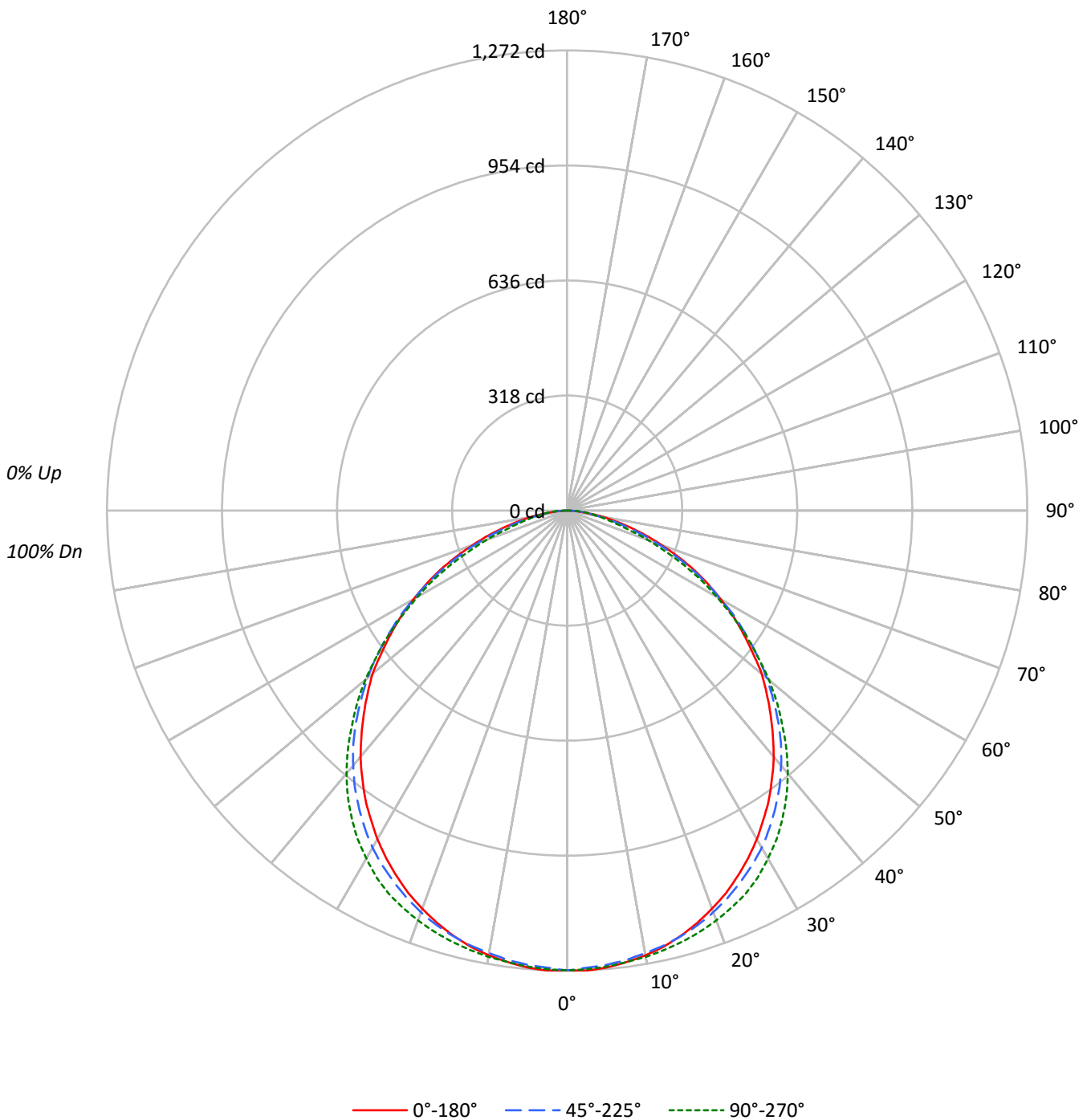
Input Watts (W): 33.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3420	3420	3420
5°	3425	3404	3416
10°	3410	3394	3423
15°	3389	3393	3435
20°	3354	3384	3453
25°	3311	3365	3468
30°	3259	3343	3451
35°	3197	3296	3410
40°	3121	3232	3333
45°	3025	3140	3203
50°	2941	3018	3049
55°	2793	2850	2836
60°	2643	2643	2570
65°	2453	2395	2261
70°	2175	2080	1878
75°	1885	1712	1445
80°	1545	1334	1311
85°	1025	1213	1306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.1	3.6
10°-20°	344.9	10.2
20°-30°	524.2	15.5
30°-40°	627.6	18.6
40°-50°	633.0	18.7
50°-60°	539.2	16.0
60°-70°	368.7	10.9
70°-80°	176.5	5.2
80°-90°	44.7	1.3
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°	989.2	29.3
0°-40°	1616.8	47.8
0°-60°	2789.0	82.5
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1268	1266	1260	1266	1265	120
15°	1216	1213	1218	1232	1233	343
25°	1115	1117	1133	1159	1168	514
35°	973	976	1003	1032	1038	608
45°	795	801	825	842	842	614
55°	595	598	607	609	604	533
65°	385	378	376	363	355	380
75°	181	178	165	144	139	194
85°	33	36	39	41	42	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1270.8	1270.8	1270.8	1270.8	1270.8
2.5°	1272.3	1270.8	1264.7	1270.8	1269.3
5°	1267.8	1266.2	1260.2	1266.2	1264.7
7.5°	1258.7	1257.2	1252.6	1258.7	1258.7
10°	1248.1	1245.1	1242.1	1251.1	1252.6
12.5°	1234.5	1231.5	1231.5	1242.1	1243.6
15°	1216.4	1213.4	1217.9	1231.5	1233.0
17.5°	1195.2	1193.7	1201.3	1217.9	1220.9
20°	1171.1	1169.5	1181.6	1201.3	1205.8
22.5°	1145.4	1145.4	1159.0	1181.6	1187.7
25°	1115.1	1116.7	1133.3	1159.0	1168.0
27.5°	1083.4	1086.4	1106.1	1134.8	1142.3
30°	1048.7	1053.2	1075.9	1103.1	1110.6
32.5°	1010.9	1015.4	1041.1	1069.8	1077.4
35°	973.1	976.1	1003.3	1032.0	1038.1
37.5°	930.8	935.3	964.0	989.7	995.8
40°	888.5	893.0	920.2	944.4	948.9
42.5°	841.6	847.7	874.9	894.5	897.6
45°	794.8	800.8	825.0	841.6	841.6
47.5°	748.0	751.0	772.1	788.8	787.2
50°	702.6	701.1	720.8	728.3	728.3
52.5°	646.7	651.3	664.9	669.4	664.9
55°	595.3	598.4	607.4	608.9	604.4
57.5°	545.5	544.0	551.5	547.0	540.9
60°	491.1	491.1	491.1	486.6	477.5
62.5°	438.2	435.2	433.7	423.1	418.6
65°	385.3	377.8	376.2	362.6	355.1
67.5°	329.4	326.4	318.8	305.2	291.6
70°	276.5	273.5	264.4	247.8	238.7
72.5°	228.2	225.1	213.1	193.4	181.3
75°	181.3	178.3	164.7	143.5	139.0
77.5°	137.5	136.0	122.4	111.8	110.3
80°	99.7	98.2	86.1	86.1	84.6
82.5°	63.5	63.5	60.4	62.0	63.5
85°	33.2	36.3	39.3	40.8	42.3
87.5°	10.6	16.6	19.6	21.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)