

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: P296991

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3061.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

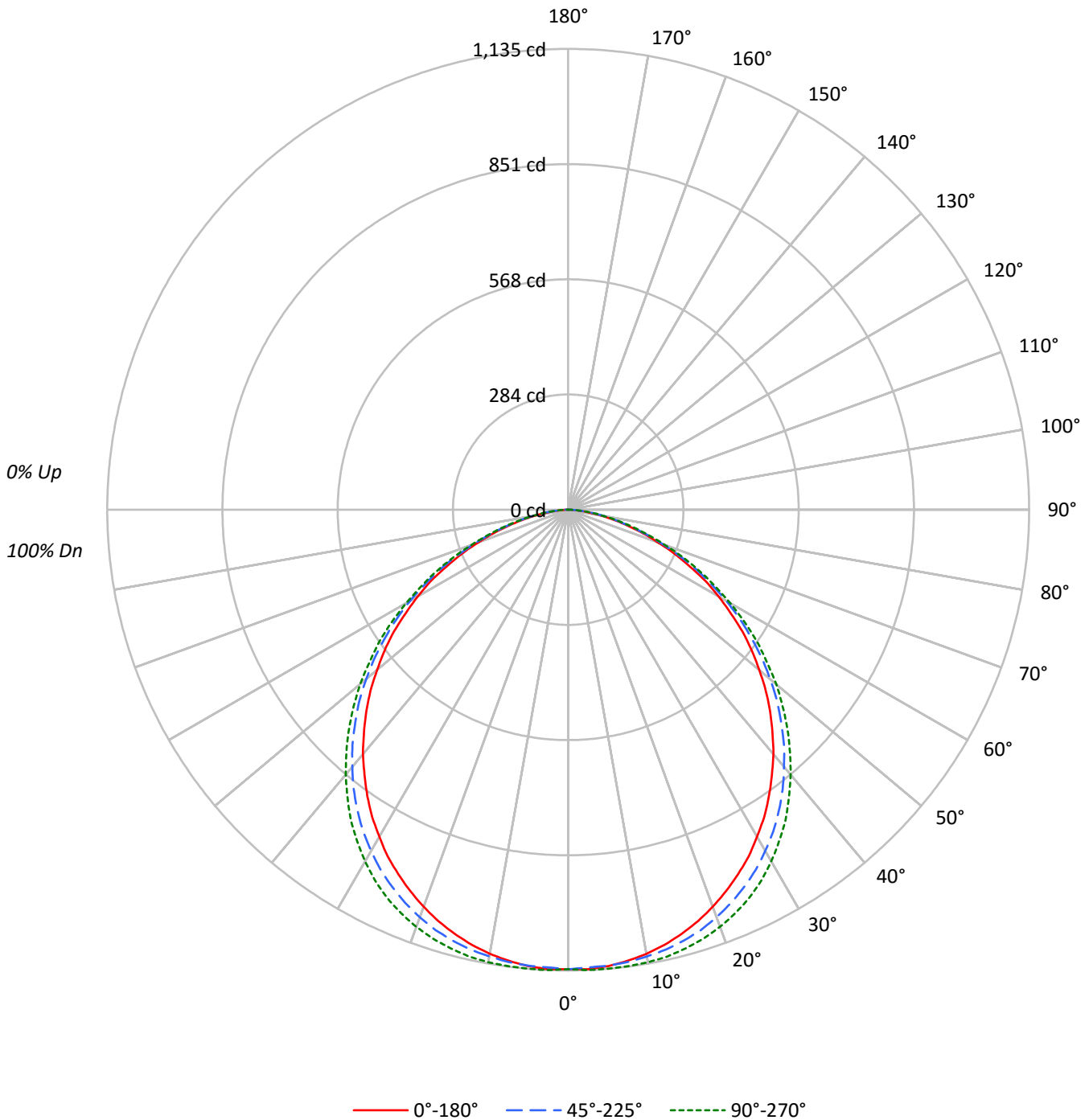
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

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

	0°	45°	90°
0°	1523	1523	1523
5°	1524	1522	1533
10°	1518	1527	1546
15°	1506	1530	1558
20°	1490	1529	1565
25°	1470	1522	1566
30°	1445	1508	1554
35°	1416	1486	1533
40°	1381	1452	1496
45°	1337	1410	1452
50°	1285	1359	1400
55°	1229	1291	1332
60°	1151	1210	1239
65°	1051	1107	1135
70°	923	971	996
75°	781	821	849
80°	620	680	697
85°	423	508	491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	3.5
10°-20°	310.4	10.1
20°-30°	471.7	15.4
30°-40°	562.9	18.4
40°-50°	568.5	18.6
50°-60°	489.8	16.0
60°-70°	341.4	11.2
70°-80°	169.2	5.5
80°-90°	39.5	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°	889.7	29.1
0°-40°	1452.6	47.5
0°-60°	2510.9	82.0
0°-90°	3061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1128	1127	1127	1133	1135	107
15°	1081	1087	1099	1113	1118	305
25°	990	1003	1025	1046	1055	456
35°	862	876	905	925	933	539
45°	703	718	741	759	763	542
55°	524	535	550	564	568	467
65°	330	337	348	351	356	328
75°	150	152	158	161	163	162
85°	27	33	33	31	32	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.6	1131.6	1131.6	1131.6	<i>1131.6</i>
2.5°	<i>1132.7</i>	<i>1130.5</i>	<i>1128.3</i>	<i>1132.7</i>	<i>1134.9</i>
5°	1128.3	1127.2	1127.2	1132.7	<i>1134.9</i>
7.5°	1120.6	1120.6	1123.9	1131.6	<i>1133.8</i>
10°	1110.8	1112.9	1117.3	1128.3	<i>1131.6</i>
12.5°	1097.6	1102.0	1109.7	1122.8	<i>1127.2</i>
15°	1081.1	1086.6	1098.7	1112.9	<i>1118.4</i>
17.5°	1062.5	1070.2	1085.5	1102.0	<i>1107.5</i>
20°	1040.6	1050.4	1068.0	1086.6	<i>1093.2</i>
22.5°	1016.5	1028.5	1048.3	1068.0	<i>1075.7</i>
25°	990.1	1003.3	1025.2	1046.1	<i>1054.8</i>
27.5°	962.7	975.9	1000.0	1020.8	<i>1029.6</i>
30°	929.8	945.2	970.4	992.3	<i>1000.0</i>
32.5°	898.0	913.4	939.7	959.4	<i>967.1</i>
35°	861.8	876.1	904.6	925.4	<i>933.1</i>
37.5°	823.5	839.9	867.3	886.0	<i>892.6</i>
40°	786.2	800.4	826.8	845.4	<i>852.0</i>
42.5°	744.5	759.9	786.2	802.6	<i>808.1</i>
45°	702.9	718.2	741.2	758.8	<i>763.2</i>
47.5°	660.1	674.3	697.4	711.6	<i>716.0</i>
50°	614.0	627.2	649.1	663.4	<i>668.9</i>
52.5°	570.2	582.2	600.9	612.9	<i>616.2</i>
55°	524.1	535.1	550.4	563.6	<i>568.0</i>
57.5°	474.8	486.8	501.1	512.1	<i>515.4</i>
60°	427.6	437.5	449.6	459.4	<i>460.5</i>
62.5°	381.6	386.0	396.9	405.7	<i>406.8</i>
65°	330.0	336.6	347.6	350.9	<i>356.4</i>
67.5°	282.9	287.3	296.1	300.4	<i>304.8</i>
70°	234.7	237.9	246.7	252.2	<i>253.3</i>
72.5°	193.0	194.1	200.7	205.0	<i>206.1</i>
75°	150.2	152.4	157.9	161.2	<i>163.4</i>
77.5°	114.0	116.2	120.6	122.8	<i>122.8</i>
80°	80.0	83.3	87.7	88.8	<i>89.9</i>
82.5°	51.5	55.9	59.2	60.3	<i>58.1</i>
85°	27.4	32.9	32.9	30.7	<i>31.8</i>
87.5°	9.9	12.1	13.2	14.3	<i>14.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)