

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: P297740

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297740  
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-31L82765-LD5-UNV-14-T1-W2A-6500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3091.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

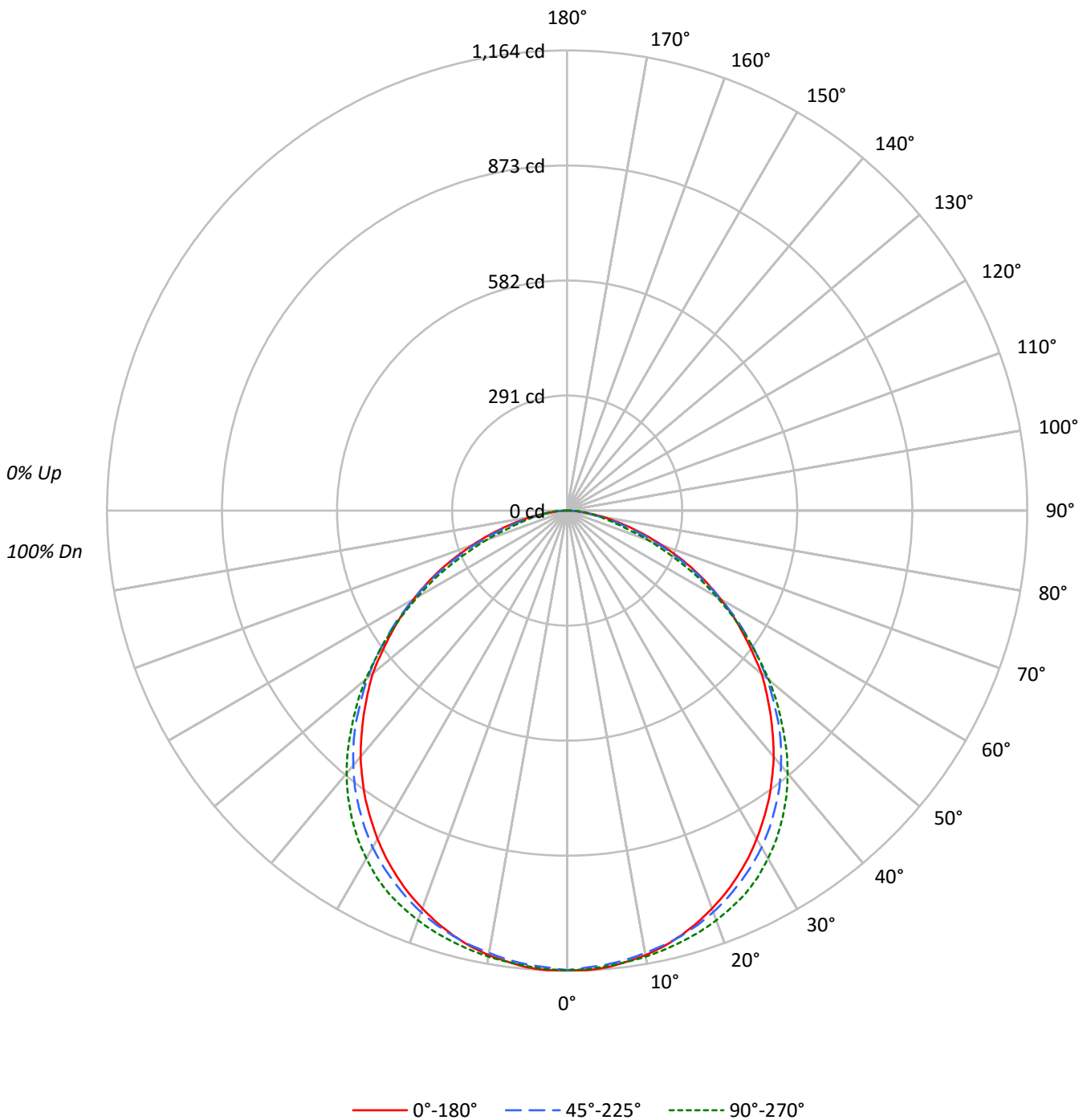
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3128	3128	3128
5°	3133	3114	3125
10°	3120	3105	3131
15°	3100	3104	3142
20°	3068	3095	3159
25°	3029	3078	3173
30°	2981	3058	3157
35°	2924	3015	3120
40°	2855	2957	3049
45°	2767	2872	2930
50°	2691	2760	2789
55°	2555	2607	2594
60°	2418	2418	2351
65°	2245	2192	2068
70°	1991	1903	1718
75°	1725	1567	1323
80°	1413	1221	1199
85°	939	1108	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	3.6
10°-20°	315.5	10.2
20°-30°	479.5	15.5
30°-40°	574.1	18.6
40°-50°	579.1	18.7
50°-60°	493.2	16.0
60°-70°	337.3	10.9
70°-80°	161.5	5.2
80°-90°	40.9	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°	904.9	29.3
0°-40°	1479.0	47.8
0°-60°	2551.3	82.5
0°-90°	3091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1160	1158	1153	1158	1157	110
15°	1113	1110	1114	1126	1128	314
25°	1020	1022	1037	1060	1068	470
35°	890	893	918	944	950	556
45°	727	733	755	770	770	561
55°	545	547	556	557	553	488
65°	352	346	344	332	325	348
75°	166	163	151	131	127	177
85°	30	33	36	37	39	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1162.5	1162.5	1162.5	1162.5	1162.5
2.5°	1163.8	1162.5	1156.9	1162.5	1161.1
5°	1159.7	1158.3	1152.8	1158.3	1156.9
7.5°	1151.4	1150.0	1145.9	1151.4	1151.4
10°	1141.7	1139.0	1136.2	1144.5	1145.9
12.5°	1129.3	1126.5	1126.5	1136.2	1137.6
15°	1112.7	1109.9	1114.1	1126.5	1127.9
17.5°	1093.4	1092.0	1098.9	1114.1	1116.9
20°	1071.2	1069.9	1080.9	1098.9	1103.0
22.5°	1047.7	1047.7	1060.2	1080.9	1086.4
25°	1020.1	1021.5	1036.7	1060.2	1068.5
27.5°	991.1	993.8	1011.8	1038.1	1045.0
30°	959.3	963.4	984.2	1009.0	1015.9
32.5°	924.7	928.9	952.4	978.6	985.5
35°	890.2	892.9	917.8	944.1	949.6
37.5°	851.5	855.6	881.9	905.4	910.9
40°	812.8	816.9	841.8	863.9	868.0
42.5°	769.9	775.4	800.3	818.3	821.1
45°	727.1	732.6	754.7	769.9	769.9
47.5°	684.2	687.0	706.3	721.5	720.1
50°	642.7	641.4	659.3	666.2	666.2
52.5°	591.6	595.7	608.2	612.3	608.2
55°	544.6	547.4	555.7	557.0	552.9
57.5°	499.0	497.6	504.5	500.4	494.8
60°	449.2	449.2	449.2	445.1	436.8
62.5°	400.9	398.1	396.7	387.0	382.9
65°	352.5	345.6	344.2	331.7	324.8
67.5°	301.3	298.6	291.7	279.2	266.8
70°	253.0	250.2	241.9	226.7	218.4
72.5°	208.7	206.0	194.9	176.9	165.9
75°	165.9	163.1	150.7	131.3	127.2
77.5°	125.8	124.4	112.0	102.3	100.9
80°	91.2	89.8	78.8	78.8	77.4
82.5°	58.1	58.1	55.3	56.7	58.1
85°	30.4	33.2	35.9	37.3	38.7
87.5°	9.7	15.2	18.0	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)