

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: P297877

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3213.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

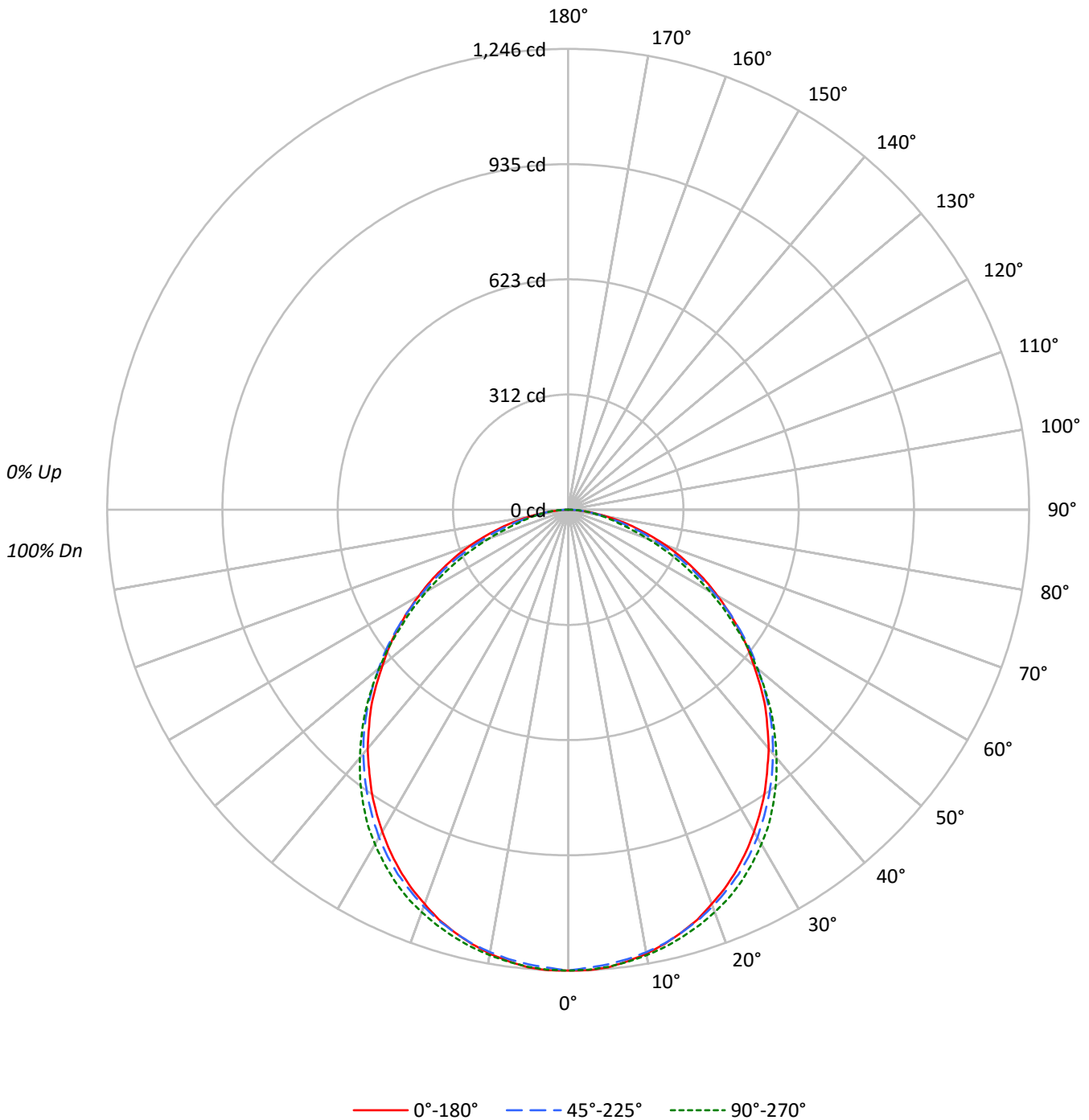
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	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	46	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	31	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	3353	3353	3353
5°	3355	3333	3352
10°	3331	3320	3342
15°	3297	3297	3331
20°	3249	3268	3315
25°	3195	3231	3292
30°	3123	3178	3246
35°	3047	3105	3177
40°	2962	3024	3077
45°	2866	2928	2954
50°	2743	2799	2788
55°	2639	2658	2588
60°	2507	2470	2375
65°	2367	2272	2116
70°	2197	2015	1790
75°	1955	1728	1472
80°	1626	1415	1371
85°	1176	1263	1263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	3.7
10°-20°	335.0	10.4
20°-30°	502.1	15.6
30°-40°	591.6	18.4
40°-50°	590.0	18.4
50°-60°	501.9	15.6
60°-70°	350.3	10.9
70°-80°	178.0	5.5
80°-90°	46.5	1.4
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°	954.7	29.7
0°-40°	1546.3	48.1
0°-60°	2638.2	82.1
0°-90°	3213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1242	1239	1234	1241	1241	118
15°	1184	1184	1184	1194	1196	334
25°	1076	1077	1088	1105	1109	495
35°	928	929	945	964	967	579
45°	753	756	770	775	776	579
55°	562	562	567	558	552	503
65°	372	366	357	338	332	369
75°	188	181	166	146	142	200
85°	38	40	41	41	41	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1246.2	1246.2	1246.2	1246.2	1246.2
2.5°	1246.2	1244.8	1239.4	1244.8	1244.8
5°	1242.1	1239.4	1234.0	1240.8	1240.8
7.5°	1231.2	1229.9	1225.8	1232.6	1232.6
10°	1219.0	1217.6	1214.9	1223.1	1223.1
12.5°	1202.6	1202.6	1201.3	1209.4	1210.8
15°	1183.6	1183.6	1183.6	1194.5	1195.8
17.5°	1161.8	1160.4	1164.5	1176.8	1178.1
20°	1134.5	1135.9	1141.3	1155.0	1157.7
22.5°	1107.3	1108.7	1115.5	1131.8	1135.9
25°	1076.0	1077.3	1088.2	1104.6	1108.7
27.5°	1041.9	1044.6	1056.9	1074.6	1077.3
30°	1005.1	1007.9	1022.8	1040.6	1044.6
32.5°	967.0	971.1	984.7	1003.8	1009.2
35°	927.5	928.9	945.2	964.3	967.0
37.5°	883.9	888.0	904.4	920.7	923.4
40°	843.1	845.8	860.8	874.4	875.8
42.5°	796.8	800.8	817.2	826.7	826.7
45°	753.2	755.9	769.5	775.0	776.3
47.5°	704.1	706.9	719.1	721.8	721.8
50°	655.1	661.9	668.7	668.7	666.0
52.5°	610.2	611.5	619.7	614.3	611.5
55°	562.5	562.5	566.6	558.4	551.6
57.5°	514.8	514.8	514.8	503.9	498.5
60°	465.8	464.4	459.0	445.4	441.3
62.5°	419.5	415.4	407.2	393.6	385.4
65°	371.8	366.4	356.8	337.8	332.3
67.5°	326.9	317.3	306.4	288.7	279.2
70°	279.2	271.0	256.1	235.6	227.5
72.5°	232.9	224.7	212.5	192.0	179.8
75°	188.0	181.1	166.2	145.7	141.6
77.5°	144.4	140.3	125.3	115.8	114.4
80°	104.9	103.5	91.3	88.5	88.5
82.5°	69.5	68.1	64.0	64.0	62.7
85°	38.1	39.5	40.9	40.9	40.9
87.5°	13.6	16.3	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)