

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: P297911

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297911  
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-31L93050-LD5-UNV-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2864.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

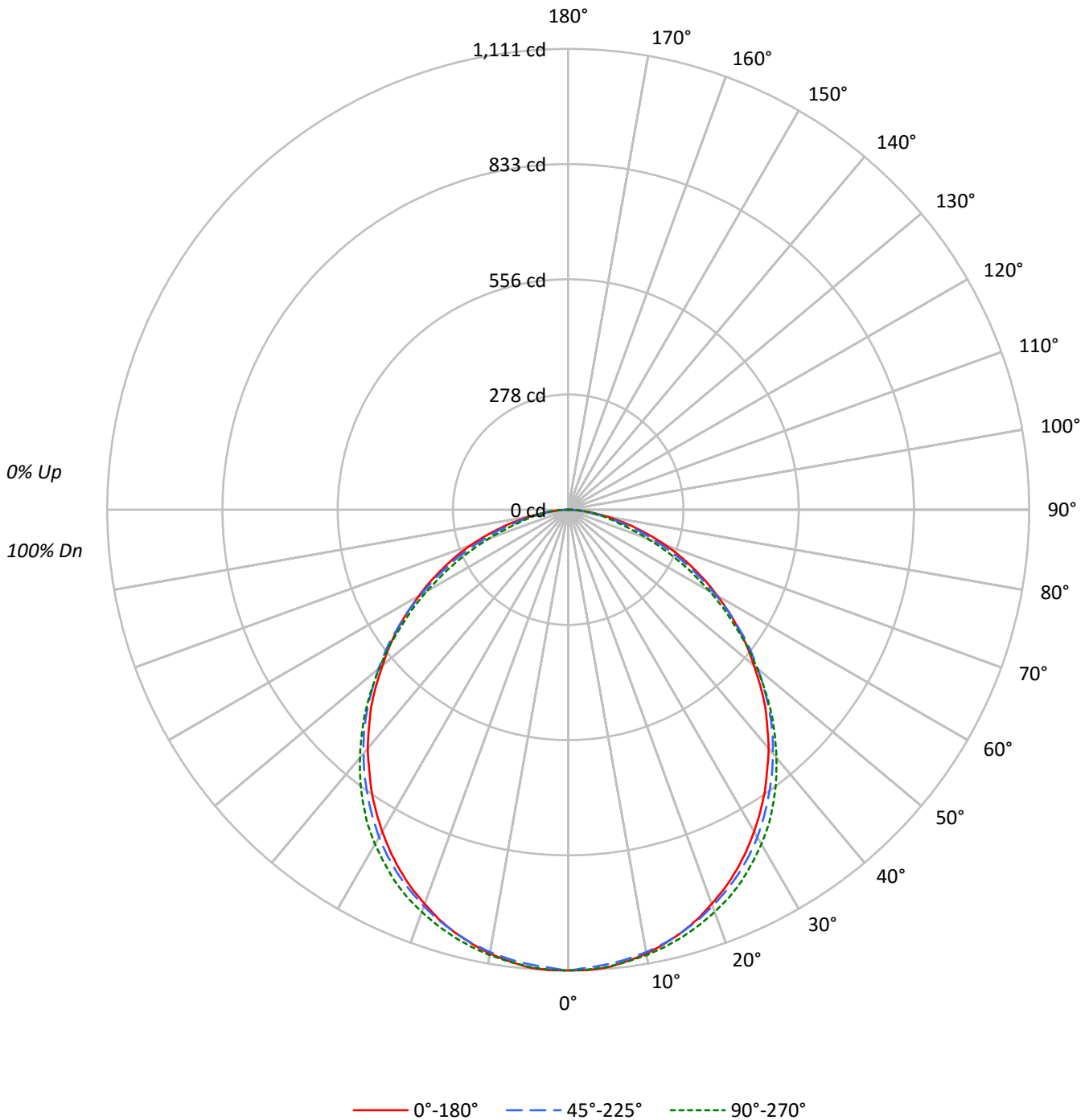
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	30	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°	2989	2989	2989
5°	2991	2971	2988
10°	2969	2959	2979
15°	2939	2939	2969
20°	2896	2914	2955
25°	2848	2880	2934
30°	2784	2833	2893
35°	2716	2768	2832
40°	2640	2695	2742
45°	2555	2610	2633
50°	2445	2496	2485
55°	2352	2369	2307
60°	2235	2202	2117
65°	2110	2025	1886
70°	1958	1795	1595
75°	1742	1540	1313
80°	1449	1260	1223
85°	1050	1124	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	3.7
10°-20°	298.6	10.4
20°-30°	447.6	15.6
30°-40°	527.3	18.4
40°-50°	525.9	18.4
50°-60°	447.4	15.6
60°-70°	312.2	10.9
70°-80°	158.7	5.5
80°-90°	41.4	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°	851.0	29.7
0°-40°	1378.3	48.1
0°-60°	2351.6	82.1
0°-90°	2864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1107	1105	1100	1106	1106	105
15°	1055	1055	1055	1065	1066	297
25°	959	960	970	985	988	441
35°	827	828	842	860	862	517
45°	671	674	686	691	692	517
55°	501	501	505	498	492	448
65°	331	327	318	301	296	329
75°	168	162	148	130	126	178
85°	34	35	36	36	36	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1110.8	1110.8	1110.8	1110.8	1110.8
2.5°	1110.8	1109.6	1104.8	1109.6	1109.6
5°	1107.2	1104.8	1099.9	1106.0	1106.0
7.5°	1097.5	1096.3	1092.6	1098.7	1098.7
10°	1086.6	1085.4	1082.9	1090.2	1090.2
12.5°	1072.0	1072.0	1070.8	1078.1	1079.3
15°	1055.0	1055.0	1055.0	1064.7	1065.9
17.5°	1035.6	1034.4	1038.0	1048.9	1050.1
20°	1011.3	1012.5	1017.4	1029.5	1031.9
22.5°	987.0	988.2	994.3	1008.9	1012.5
25°	959.1	960.3	970.0	984.6	988.2
27.5°	928.7	931.2	942.1	957.9	960.3
30°	896.0	898.4	911.7	927.5	931.2
32.5°	862.0	865.6	877.8	894.7	899.6
35°	826.8	828.0	842.5	859.5	862.0
37.5°	787.9	791.6	806.1	820.7	823.1
40°	751.5	753.9	767.3	779.4	780.6
42.5°	710.2	713.9	728.4	736.9	736.9
45°	671.4	673.8	685.9	690.8	692.0
47.5°	627.7	630.1	641.0	643.4	643.4
50°	584.0	590.0	596.1	596.1	593.7
52.5°	543.9	545.1	552.4	547.5	545.1
55°	501.4	501.4	505.0	497.8	491.7
57.5°	458.9	458.9	458.9	449.2	444.3
60°	415.2	414.0	409.1	397.0	393.3
62.5°	373.9	370.3	363.0	350.9	343.6
65°	331.4	326.6	318.1	301.1	296.2
67.5°	291.4	282.9	273.2	257.4	248.9
70°	248.9	241.6	228.2	210.0	202.7
72.5°	207.6	200.3	189.4	171.2	160.3
75°	167.5	161.5	148.1	129.9	126.3
77.5°	128.7	125.0	111.7	103.2	102.0
80°	93.5	92.3	81.3	78.9	78.9
82.5°	61.9	60.7	57.1	57.1	55.8
85°	34.0	35.2	36.4	36.4	36.4
87.5°	12.1	14.6	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)