

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: P297909

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297909
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-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2427.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

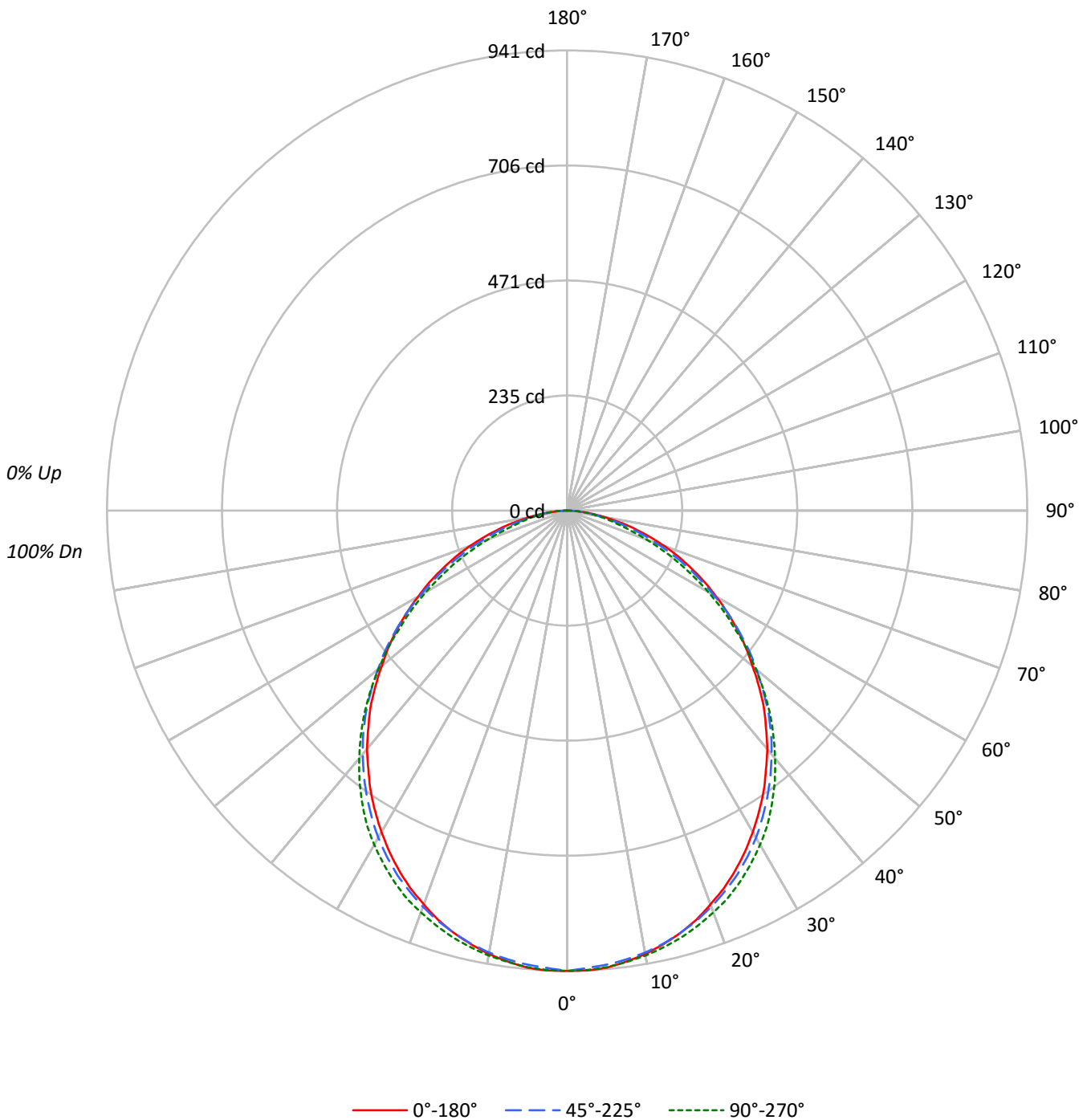
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2533	2533	2533
5°	2535	2518	2532
10°	2516	2508	2525
15°	2491	2491	2517
20°	2454	2469	2504
25°	2413	2441	2486
30°	2359	2401	2452
35°	2302	2346	2399
40°	2237	2284	2324
45°	2165	2212	2232
50°	2072	2115	2106
55°	1993	2008	1955
60°	1893	1866	1794
65°	1789	1716	1598
70°	1659	1522	1352
75°	1476	1305	1112
80°	1227	1068	1037
85°	889	954	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.7
10°-20°	253.1	10.4
20°-30°	379.3	15.6
30°-40°	446.8	18.4
40°-50°	445.7	18.4
50°-60°	379.1	15.6
60°-70°	264.6	10.9
70°-80°	134.5	5.5
80°-90°	35.1	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°	721.2	29.7
0°-40°	1168.0	48.1
0°-60°	1992.8	82.1
0°-90°	2427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	938	936	932	937	937	89
15°	894	894	894	902	903	252
25°	813	814	822	834	837	374
35°	701	702	714	728	730	438
45°	569	571	581	585	586	438
55°	425	425	428	422	417	380
65°	281	277	270	255	251	279
75°	142	137	126	110	107	151
85°	29	30	31	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.3	941.3	941.3	941.3	941.3
2.5°	941.3	940.3	936.2	940.3	940.3
5°	938.3	936.2	932.1	937.2	937.2
7.5°	930.0	929.0	925.9	931.1	931.1
10°	920.8	919.7	917.7	923.9	923.9
12.5°	908.4	908.4	907.4	913.6	914.6
15°	894.0	894.0	894.0	902.3	903.3
17.5°	877.6	876.5	879.6	888.9	889.9
20°	857.0	858.0	862.1	872.4	874.5
22.5°	836.4	837.4	842.6	854.9	858.0
25°	812.7	813.8	822.0	834.4	837.4
27.5°	787.0	789.1	798.3	811.7	813.8
30°	759.3	761.3	772.6	786.0	789.1
32.5°	730.4	733.5	743.8	758.2	762.3
35°	700.6	701.6	714.0	728.4	730.4
37.5°	667.7	670.8	683.1	695.5	697.5
40°	636.8	638.9	650.2	660.5	661.5
42.5°	601.8	604.9	617.3	624.5	624.5
45°	568.9	571.0	581.3	585.4	586.4
47.5°	531.9	533.9	543.2	545.3	545.3
50°	494.9	500.0	505.1	505.1	503.1
52.5°	460.9	461.9	468.1	464.0	461.9
55°	424.9	424.9	428.0	421.8	416.7
57.5°	388.9	388.9	388.9	380.7	376.5
60°	351.8	350.8	346.7	336.4	333.3
62.5°	316.9	313.8	307.6	297.3	291.1
65°	280.9	276.7	269.5	255.1	251.0
67.5°	246.9	239.7	231.5	218.1	210.9
70°	210.9	204.7	193.4	178.0	171.8
72.5°	175.9	169.8	160.5	145.1	135.8
75°	142.0	136.8	125.5	110.1	107.0
77.5°	109.1	106.0	94.6	87.4	86.4
80°	79.2	78.2	68.9	66.9	66.9
82.5°	52.5	51.4	48.4	48.4	47.3
85°	28.8	29.8	30.9	30.9	30.9
87.5°	10.3	12.3	14.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)