

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: P297770

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297770
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-31L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2514.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

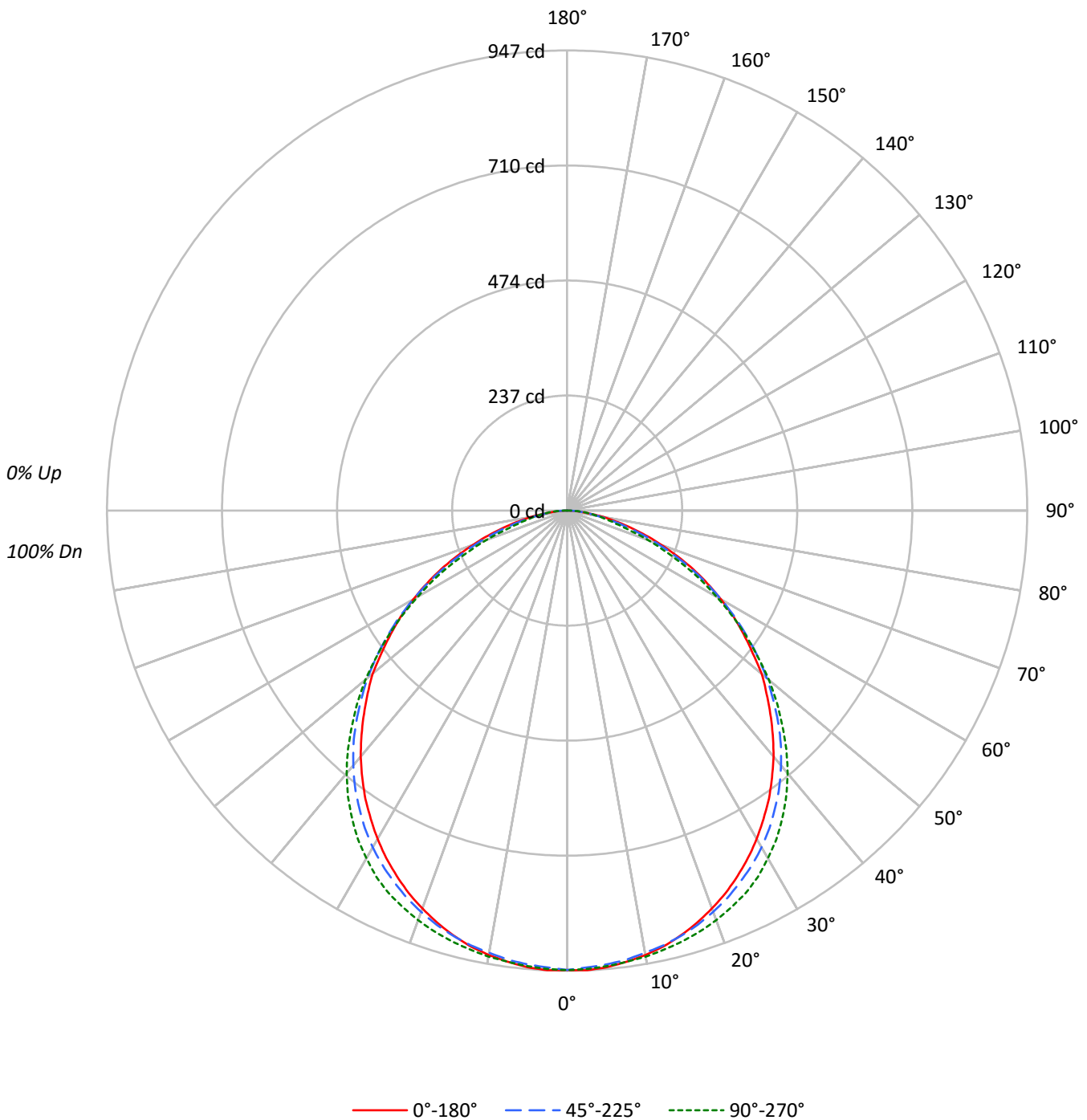
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2544	2544	2544
5°	2548	2533	2542
10°	2537	2525	2547
15°	2521	2524	2556
20°	2495	2517	2569
25°	2464	2504	2580
30°	2424	2487	2568
35°	2378	2452	2537
40°	2322	2405	2480
45°	2250	2336	2383
50°	2189	2245	2269
55°	2078	2120	2110
60°	1967	1967	1912
65°	1826	1782	1682
70°	1618	1548	1397
75°	1403	1274	1075
80°	1150	993	976
85°	763	902	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.6
10°-20°	256.6	10.2
20°-30°	390.0	15.5
30°-40°	466.9	18.6
40°-50°	471.0	18.7
50°-60°	401.2	16.0
60°-70°	274.3	10.9
70°-80°	131.4	5.2
80°-90°	33.3	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°	736.0	29.3
0°-40°	1202.9	47.8
0°-60°	2075.1	82.5
0°-90°	2514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	943	942	938	942	941	90
15°	905	903	906	916	917	255
25°	830	831	843	862	869	382
35°	724	726	746	768	772	452
45°	591	596	614	626	626	457
55°	443	445	452	453	450	397
65°	287	281	280	270	264	283
75°	135	133	122	107	103	144
85°	25	27	29	30	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.5	945.5	945.5	945.5	945.5
2.5°	946.6	945.5	941.0	945.5	944.3
5°	943.2	942.1	937.6	942.1	941.0
7.5°	936.5	935.4	932.0	936.5	936.5
10°	928.6	926.4	924.1	930.9	932.0
12.5°	918.5	916.2	916.2	924.1	925.2
15°	905.0	902.7	906.1	916.2	917.4
17.5°	889.3	888.1	893.8	906.1	908.4
20°	871.3	870.1	879.1	893.8	897.1
22.5°	852.2	852.2	862.3	879.1	883.6
25°	829.7	830.8	843.2	862.3	869.0
27.5°	806.1	808.3	822.9	844.3	849.9
30°	780.2	783.6	800.4	820.7	826.3
32.5°	752.1	755.5	774.6	795.9	801.6
35°	724.0	726.2	746.5	767.8	772.3
37.5°	692.5	695.9	717.3	736.4	740.9
40°	661.0	664.4	684.6	702.6	706.0
42.5°	626.2	630.7	650.9	665.5	667.8
45°	591.3	595.8	613.8	626.2	626.2
47.5°	556.5	558.7	574.5	586.8	585.7
50°	522.8	521.6	536.3	541.9	541.9
52.5°	481.2	484.5	494.7	498.0	494.7
55°	442.9	445.2	451.9	453.1	449.7
57.5°	405.8	404.7	410.3	407.0	402.5
60°	365.4	365.4	365.4	362.0	355.3
62.5°	326.0	323.8	322.7	314.8	311.4
65°	286.7	281.1	279.9	269.8	264.2
67.5°	245.1	242.8	237.2	227.1	217.0
70°	205.7	203.5	196.7	184.4	177.6
72.5°	169.8	167.5	158.5	143.9	134.9
75°	134.9	132.7	122.5	106.8	103.4
77.5°	102.3	101.2	91.1	83.2	82.1
80°	74.2	73.1	64.1	64.1	63.0
82.5°	47.2	47.2	45.0	46.1	47.2
85°	24.7	27.0	29.2	30.4	31.5
87.5°	7.9	12.4	14.6	15.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)