

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: P297912

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297912
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-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 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

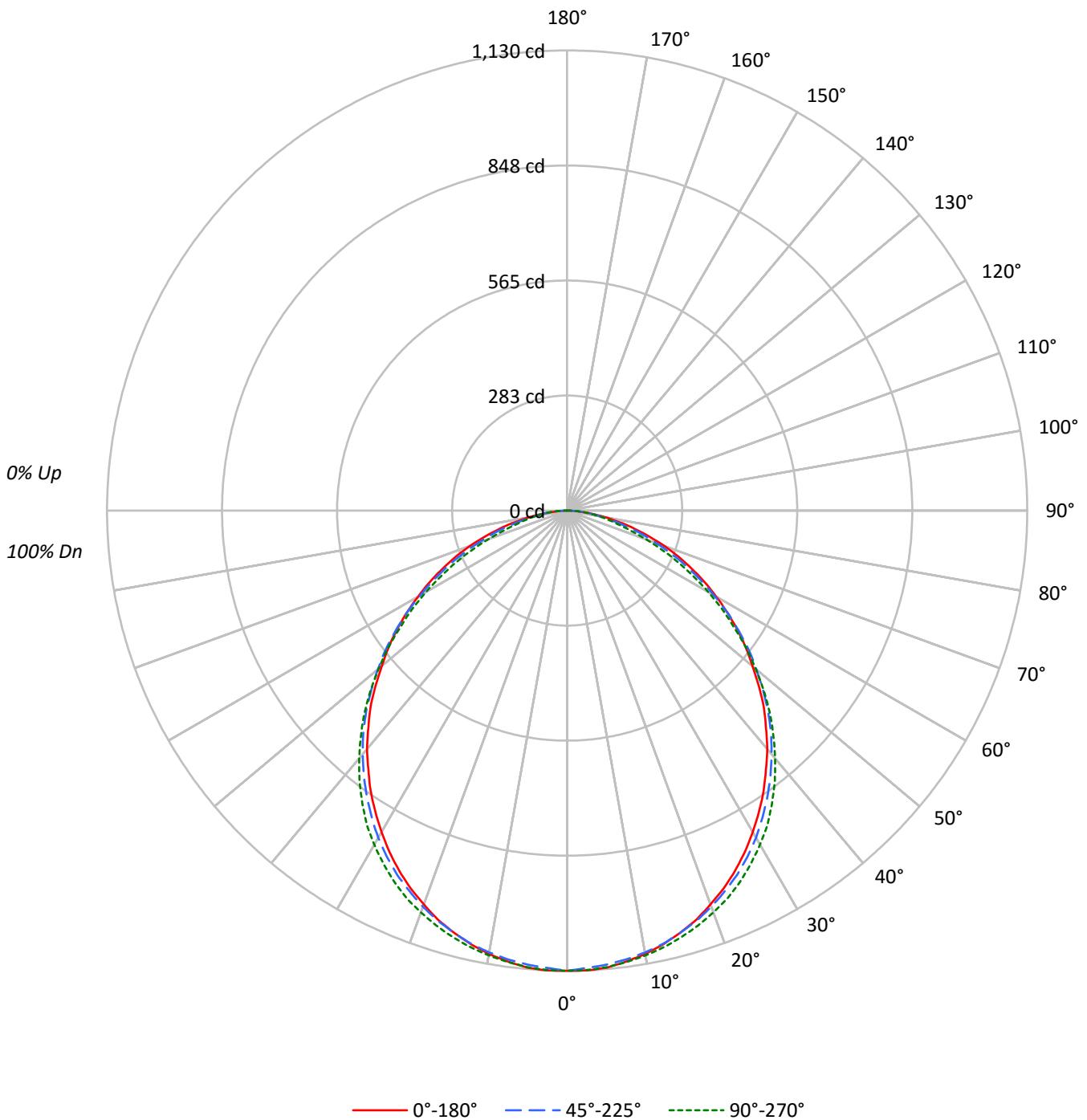
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3041	3041	3041
5°	3043	3023	3040
10°	3021	3011	3031
15°	2990	2990	3021
20°	2947	2964	3007
25°	2897	2931	2985
30°	2833	2883	2944
35°	2763	2816	2881
40°	2686	2742	2790
45°	2600	2656	2680
50°	2487	2539	2529
55°	2394	2411	2347
60°	2274	2241	2154
65°	2147	2060	1919
70°	1992	1827	1623
75°	1773	1567	1336
80°	1474	1283	1244
85°	1068	1145	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.7
10°-20°	303.8	10.4
20°-30°	455.4	15.6
30°-40°	536.5	18.4
40°-50°	535.1	18.4
50°-60°	455.2	15.6
60°-70°	317.7	10.9
70°-80°	161.5	5.5
80°-90°	42.2	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°	865.9	29.7
0°-40°	1402.4	48.1
0°-60°	2392.7	82.1
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1126	1124	1119	1125	1125	107
15°	1073	1073	1073	1083	1084	303
25°	976	977	987	1002	1006	449
35°	841	842	857	874	877	526
45°	683	686	698	703	704	526
55°	510	510	514	506	500	456
65°	337	332	324	306	301	334
75°	170	164	151	132	128	181
85°	35	36	37	37	37	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.2	1130.2	1130.2	1130.2	1130.2
2.5°	1130.2	1129.0	1124.1	1129.0	1129.0
5°	1126.5	1124.1	1119.1	1125.3	1125.3
7.5°	1116.7	1115.4	1111.7	1117.9	1117.9
10°	1105.5	1104.3	1101.8	1109.2	1109.2
12.5°	1090.7	1090.7	1089.5	1096.9	1098.1
15°	1073.4	1073.4	1073.4	1083.3	1084.5
17.5°	1053.7	1052.4	1056.1	1067.2	1068.5
20°	1029.0	1030.2	1035.1	1047.5	1049.9
22.5°	1004.2	1005.5	1011.7	1026.5	1030.2
25°	975.8	977.1	987.0	1001.8	1005.5
27.5°	945.0	947.4	958.5	974.6	977.1
30°	911.6	914.1	927.7	943.7	947.4
32.5°	877.0	880.7	893.1	910.4	915.3
35°	841.2	842.4	857.3	874.5	877.0
37.5°	801.7	805.4	820.2	835.0	837.5
40°	764.6	767.1	780.7	793.0	794.3
42.5°	722.6	726.3	741.1	749.8	749.8
45°	683.1	685.6	697.9	702.8	704.1
47.5°	638.6	641.1	652.2	654.7	654.7
50°	594.1	600.3	606.5	606.5	604.0
52.5°	553.4	554.6	562.0	557.1	554.6
55°	510.2	510.2	513.9	506.4	500.3
57.5°	466.9	466.9	466.9	457.0	452.1
60°	422.5	421.2	416.3	403.9	400.2
62.5°	380.5	376.7	369.3	357.0	349.6
65°	337.2	332.3	323.6	306.3	301.4
67.5°	296.5	287.8	277.9	261.9	253.2
70°	253.2	245.8	232.2	213.7	206.3
72.5°	211.2	203.8	192.7	174.2	163.1
75°	170.5	164.3	150.7	132.2	128.5
77.5°	130.9	127.2	113.6	105.0	103.8
80°	95.1	93.9	82.8	80.3	80.3
82.5°	63.0	61.8	58.1	58.1	56.8
85°	34.6	35.8	37.1	37.1	37.1
87.5°	12.4	14.8	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)