

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: P297910

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297910
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-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

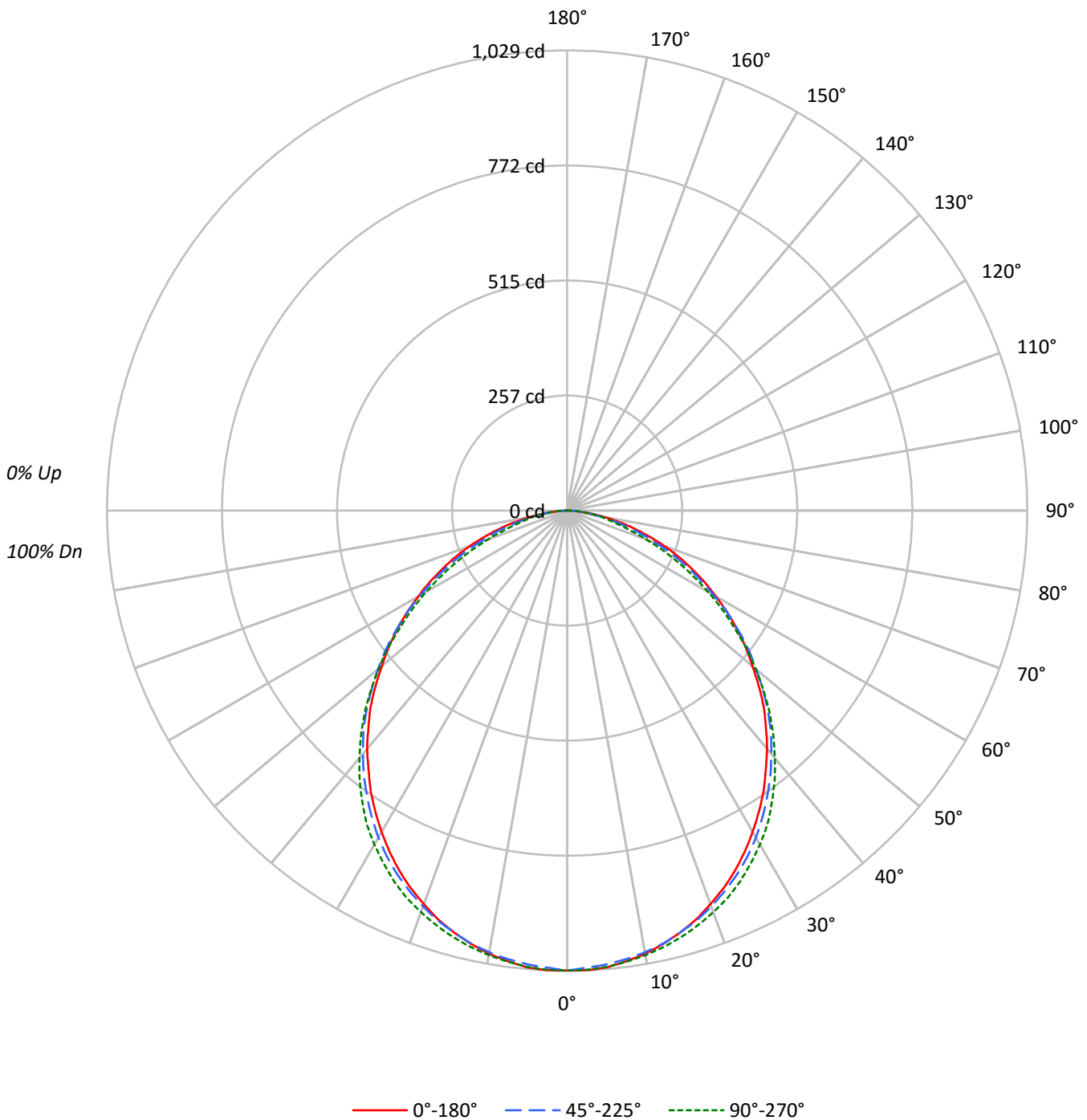
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	31		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°	2768	2768	2768
5°	2769	2751	2766
10°	2749	2740	2758
15°	2722	2722	2750
20°	2682	2698	2736
25°	2637	2667	2717
30°	2578	2623	2679
35°	2515	2563	2622
40°	2445	2496	2539
45°	2366	2417	2439
50°	2264	2311	2301
55°	2178	2194	2136
60°	2069	2039	1960
65°	1954	1875	1747
70°	1814	1662	1477
75°	1613	1425	1215
80°	1342	1167	1133
85°	973	1041	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.7
10°-20°	276.5	10.4
20°-30°	414.4	15.6
30°-40°	488.3	18.4
40°-50°	487.0	18.4
50°-60°	414.2	15.6
60°-70°	289.1	10.9
70°-80°	147.0	5.5
80°-90°	38.4	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°	788.0	29.7
0°-40°	1276.3	48.1
0°-60°	2177.6	82.1
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1025	1023	1018	1024	1024	97
15°	977	977	977	986	987	275
25°	888	889	898	912	915	409
35°	766	767	780	796	798	478
45°	622	624	635	640	641	478
55°	464	464	468	461	455	415
65°	307	302	294	279	274	304
75°	155	150	137	120	117	165
85°	32	33	34	34	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.6	1028.6	1028.6	1028.6	1028.6
2.5°	1028.6	1027.5	1023.0	1027.5	1027.5
5°	1025.2	1023.0	1018.5	1024.1	1024.1
7.5°	1016.3	1015.1	1011.8	1017.4	1017.4
10°	1006.1	1005.0	1002.8	1009.5	1009.5
12.5°	992.6	992.6	991.5	998.3	999.4
15°	976.9	976.9	976.9	985.9	987.0
17.5°	958.9	957.8	961.2	971.3	972.4
20°	936.4	937.6	942.1	953.3	955.5
22.5°	914.0	915.1	920.7	934.2	937.6
25°	888.1	889.2	898.2	911.7	915.1
27.5°	860.0	862.2	872.4	887.0	889.2
30°	829.6	831.9	844.3	858.9	862.2
32.5°	798.2	801.5	812.8	828.5	833.0
35°	765.6	766.7	780.2	795.9	798.2
37.5°	729.6	733.0	746.5	759.9	762.2
40°	695.9	698.1	710.5	721.7	722.8
42.5°	657.6	661.0	674.5	682.4	682.4
45°	621.7	623.9	635.2	639.7	640.8
47.5°	581.2	583.4	593.6	595.8	595.8
50°	540.7	546.3	552.0	552.0	549.7
52.5°	503.6	504.8	511.5	507.0	504.8
55°	464.3	464.3	467.7	460.9	455.3
57.5°	424.9	424.9	424.9	415.9	411.4
60°	384.5	383.3	378.8	367.6	364.2
62.5°	346.2	342.9	336.1	324.9	318.1
65°	306.9	302.4	294.5	278.8	274.3
67.5°	269.8	261.9	252.9	238.3	230.5
70°	230.5	223.7	211.3	194.5	187.7
72.5°	192.2	185.5	175.4	158.5	148.4
75°	155.1	149.5	137.1	120.3	116.9
77.5°	119.2	115.8	103.4	95.6	94.4
80°	86.6	85.4	75.3	73.1	73.1
82.5°	57.3	56.2	52.8	52.8	51.7
85°	31.5	32.6	33.7	33.7	33.7
87.5°	11.2	13.5	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)