

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: P297858

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297858
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-23L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2405.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

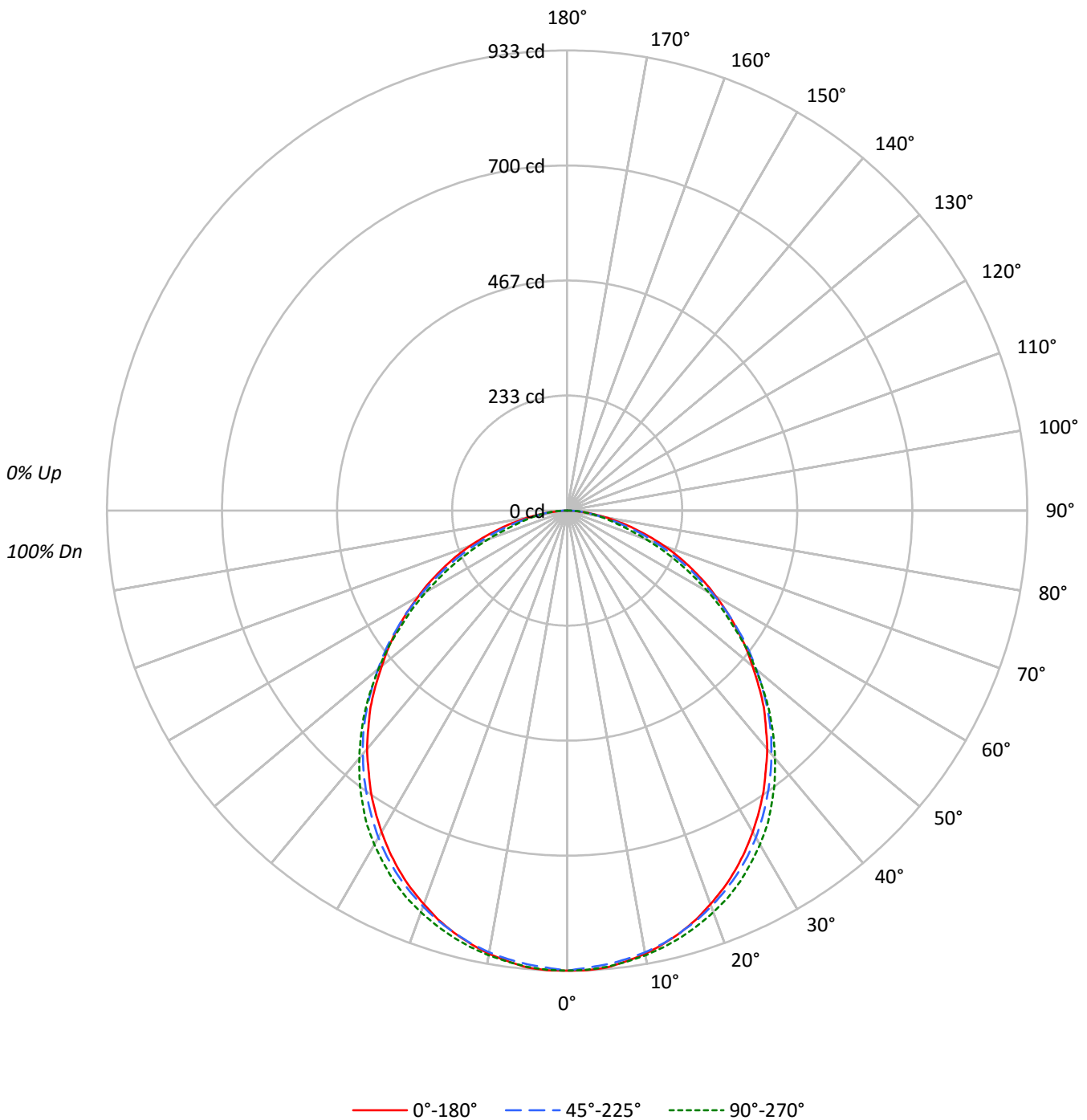
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2510	2510	2510
5°	2512	2495	2509
10°	2493	2485	2502
15°	2468	2468	2494
20°	2432	2446	2482
25°	2391	2419	2464
30°	2338	2379	2430
35°	2281	2324	2378
40°	2217	2263	2303
45°	2146	2192	2211
50°	2053	2096	2087
55°	1975	1990	1937
60°	1877	1849	1778
65°	1772	1701	1584
70°	1644	1508	1340
75°	1463	1293	1102
80°	1216	1058	1027
85°	880	945	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	3.7
10°-20°	250.8	10.4
20°-30°	375.8	15.6
30°-40°	442.8	18.4
40°-50°	441.6	18.4
50°-60°	375.7	15.6
60°-70°	262.2	10.9
70°-80°	133.3	5.5
80°-90°	34.8	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°	714.6	29.7
0°-40°	1157.4	48.1
0°-60°	1974.7	82.1
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	930	928	924	929	929	88
15°	886	886	886	894	895	250
25°	805	806	815	827	830	371
35°	694	695	708	722	724	434
45°	564	566	576	580	581	434
55°	421	421	424	418	413	376
65°	278	274	267	253	249	276
75°	141	136	124	109	106	149
85°	28	30	31	31	31	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.8	932.8	932.8	932.8	932.8
2.5°	932.8	931.8	927.7	931.8	931.8
5°	929.8	927.7	923.6	928.7	928.7
7.5°	921.6	920.6	917.5	922.6	922.6
10°	912.4	911.4	909.4	915.5	915.5
12.5°	900.2	900.2	899.2	905.3	906.3
15°	885.9	885.9	885.9	894.1	895.1
17.5°	869.6	868.6	871.6	880.8	881.8
20°	849.2	850.2	854.3	864.5	866.6
22.5°	828.8	829.8	834.9	847.2	850.2
25°	805.4	806.4	814.6	826.8	829.8
27.5°	779.9	781.9	791.1	804.4	806.4
30°	752.4	754.4	765.6	778.9	781.9
32.5°	723.8	726.9	737.1	751.4	755.4
35°	694.3	695.3	707.5	721.8	723.8
37.5°	661.6	664.7	676.9	689.2	691.2
40°	631.1	633.1	644.3	654.5	655.5
42.5°	596.4	599.4	611.7	618.8	618.8
45°	563.8	565.8	576.0	580.1	581.1
47.5°	527.1	529.1	538.3	540.3	540.3
50°	490.4	495.5	500.6	500.6	498.5
52.5°	456.7	457.7	463.9	459.8	457.7
55°	421.0	421.0	424.1	418.0	412.9
57.5°	385.4	385.4	385.4	377.2	373.1
60°	348.7	347.6	343.6	333.4	330.3
62.5°	314.0	310.9	304.8	294.6	288.5
65°	278.3	274.2	267.1	252.8	248.8
67.5°	244.7	237.5	229.4	216.1	209.0
70°	209.0	202.9	191.7	176.4	170.3
72.5°	174.3	168.2	159.0	143.7	134.6
75°	140.7	135.6	124.4	109.1	106.0
77.5°	108.1	105.0	93.8	86.7	85.6
80°	78.5	77.5	68.3	66.3	66.3
82.5°	52.0	51.0	47.9	47.9	46.9
85°	28.5	29.6	30.6	30.6	30.6
87.5°	10.2	12.2	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)