

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: P298440

Luminaire Tested: **D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

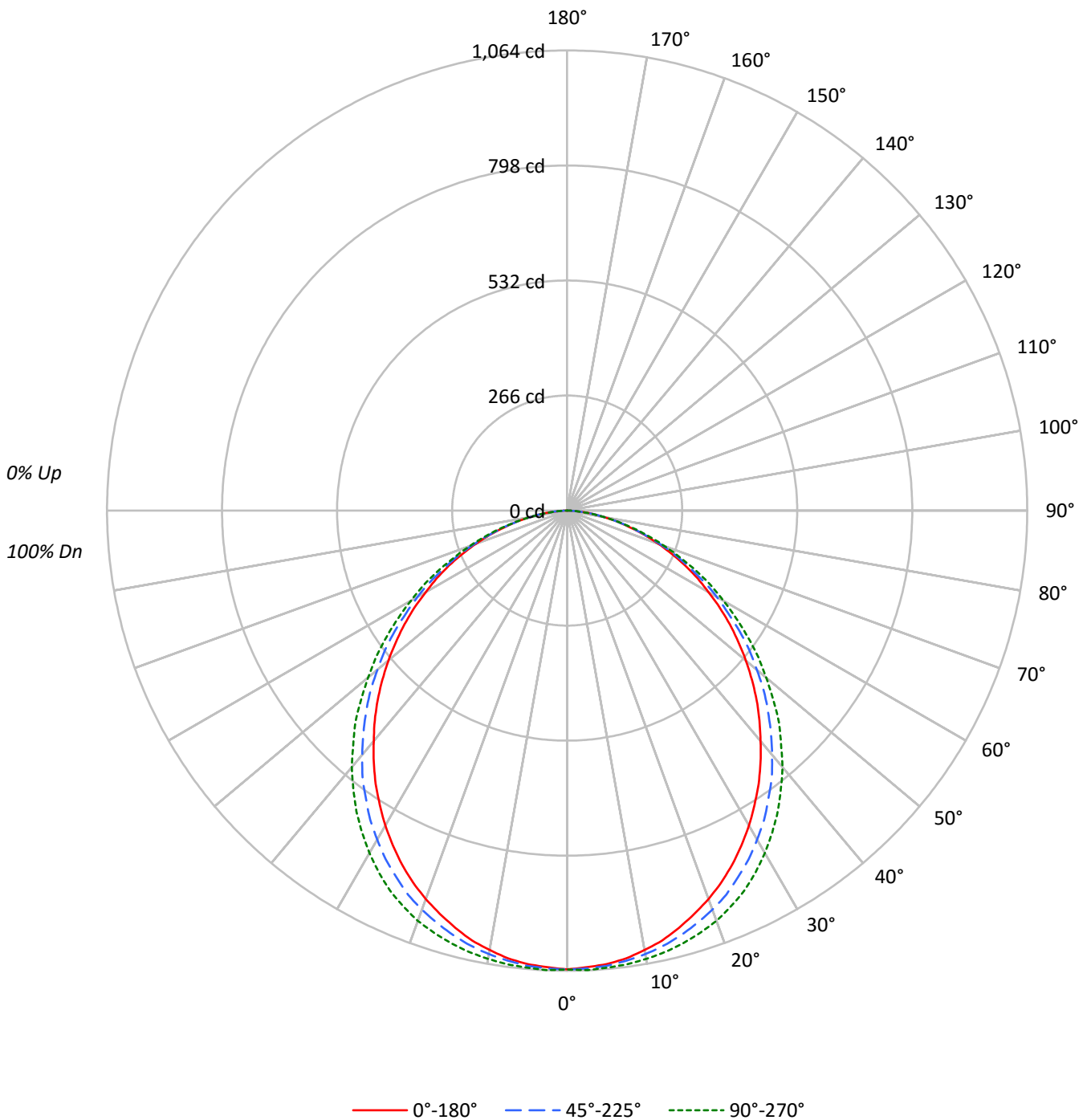
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2855	2855	2855
5°	2843	2854	2866
10°	2819	2846	2876
15°	2782	2832	2886
20°	2737	2812	2891
25°	2682	2776	2879
30°	2613	2729	2841
35°	2535	2667	2790
40°	2444	2590	2721
45°	2358	2500	2637
50°	2258	2397	2513
55°	2154	2284	2395
60°	2032	2151	2248
65°	1920	1990	2087
70°	1763	1817	1883
75°	1568	1611	1654
80°	1350	1330	1330
85°	1025	939	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	3.6
10°-20°	286.8	10.3
20°-30°	430.7	15.5
30°-40°	506.9	18.2
40°-50°	505.6	18.2
50°-60°	433.9	15.6
60°-70°	310.7	11.2
70°-80°	164.6	5.9
80°-90°	38.5	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°	817.9	29.4
0°-40°	1324.8	47.7
0°-60°	2264.2	81.5
0°-90°	2778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1053	1053	1057	1060	1061	100
15°	999	1003	1017	1030	1036	282
25°	903	912	935	958	970	416
35°	772	782	812	840	849	482
45°	620	629	657	680	693	478
55°	459	466	487	504	510	410
65°	302	303	313	325	328	298
75°	151	151	155	158	159	162
85°	33	32	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1056.7	1056.7	1059.5	1062.3	1063.7
5°	1052.6	1052.6	1056.7	1059.5	1060.9
7.5°	1044.3	1044.3	1049.8	1055.4	1058.1
10°	1031.8	1034.6	1041.5	1049.8	1052.6
12.5°	1018.0	1020.8	1030.5	1041.5	1045.7
15°	998.7	1002.8	1016.6	1030.5	1036.0
17.5°	977.9	983.4	1000.0	1016.6	1023.5
20°	955.8	961.3	982.1	1001.4	1009.7
22.5°	930.9	937.8	961.3	982.1	990.4
25°	903.2	911.5	935.0	958.5	969.6
27.5°	872.8	882.5	908.7	933.6	943.3
30°	841.0	852.0	878.3	904.6	914.3
32.5°	806.4	816.1	847.9	872.8	882.5
35°	771.8	781.5	811.9	839.6	849.3
37.5°	734.5	746.9	777.3	802.2	811.9
40°	695.7	708.2	737.2	766.3	774.6
42.5°	658.4	669.5	697.1	723.4	731.7
45°	619.7	629.3	657.0	680.5	693.0
47.5°	579.5	589.2	616.9	639.0	645.9
50°	539.4	549.1	572.6	592.0	600.3
52.5°	499.3	509.0	531.1	549.1	557.4
55°	459.2	466.1	486.9	503.5	510.4
57.5°	419.1	424.6	441.2	459.2	463.4
60°	377.6	384.5	399.7	412.2	417.7
62.5°	340.3	343.0	356.9	367.9	374.8
65°	301.5	302.9	312.6	325.0	327.8
67.5°	261.4	262.8	272.5	279.4	282.2
70°	224.1	224.1	231.0	236.5	239.3
72.5°	188.1	186.7	190.9	196.4	199.2
75°	150.8	150.8	154.9	157.7	159.1
77.5°	119.0	116.2	119.0	121.7	121.7
80°	87.1	85.8	85.8	87.1	85.8
82.5°	59.5	58.1	59.5	56.7	55.3
85°	33.2	31.8	30.4	27.7	27.7
87.5°	11.1	9.7	9.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)