

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: P297402

Luminaire Tested: **D3X-WO-80L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7875.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

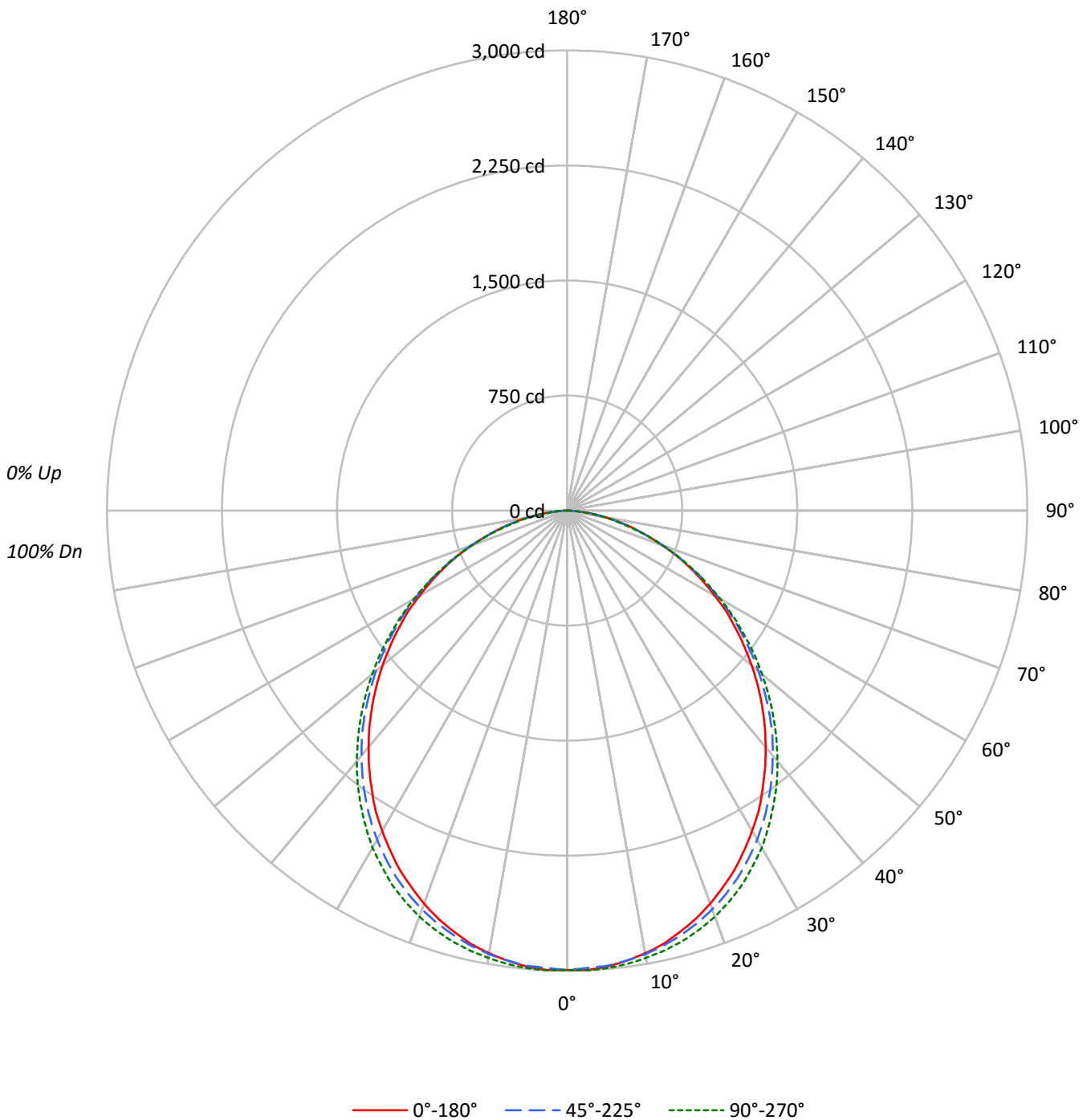
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4030	4030	4030
5°	4031	4024	4045
10°	4005	4012	4045
15°	3961	3991	4046
20°	3905	3962	4034
25°	3836	3915	4001
30°	3746	3849	3944
35°	3647	3765	3852
40°	3537	3662	3746
45°	3417	3544	3619
50°	3287	3409	3471
55°	3149	3248	3298
60°	2991	3070	3105
65°	2821	2863	2880
70°	2588	2620	2588
75°	2331	2317	2248
80°	1974	1953	1891
85°	1474	1433	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	3.6
10°-20°	810.0	10.3
20°-30°	1214.5	15.4
30°-40°	1430.3	18.2
40°-50°	1430.6	18.2
50°-60°	1234.3	15.7
60°-70°	888.2	11.3
70°-80°	471.1	6.0
80°-90°	112.3	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°	2308.2	29.3
0°-40°	3738.5	47.5
0°-60°	6403.4	81.3
0°-90°	7875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	2984	2982	2979	2990	2995	283
15°	2844	2852	2865	2894	2905	802
25°	2584	2600	2637	2682	2695	1188
35°	2220	2247	2292	2332	2345	1389
45°	1796	1820	1862	1894	1902	1385
55°	1342	1356	1385	1409	1406	1201
65°	886	889	899	905	905	876
75°	448	443	446	435	432	477
85°	96	96	93	85	82	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2995.0	2995.0	2995.0	2995.0	2995.0
2.5°	2997.7	2992.4	2984.4	2995.0	3000.3
5°	2984.4	2981.7	2979.1	2989.7	2995.0
7.5°	2960.5	2963.2	2960.5	2976.4	2981.7
10°	2931.3	2934.0	2936.6	2955.2	2960.5
12.5°	2894.2	2896.9	2904.8	2928.7	2936.6
15°	2843.8	2851.8	2865.0	2894.2	2904.8
17.5°	2790.7	2801.4	2819.9	2854.4	2865.0
20°	2727.1	2740.3	2766.9	2804.0	2817.3
22.5°	2655.4	2668.7	2705.9	2745.6	2758.9
25°	2583.8	2599.7	2636.9	2682.0	2695.2
27.5°	2498.9	2520.2	2559.9	2605.0	2615.7
30°	2411.4	2430.0	2477.7	2520.2	2538.7
32.5°	2323.9	2342.4	2387.5	2430.0	2443.2
35°	2220.4	2246.9	2292.0	2331.8	2345.1
37.5°	2119.6	2143.5	2191.2	2231.0	2244.3
40°	2013.5	2034.7	2085.1	2122.2	2132.8
42.5°	1907.4	1928.6	1979.0	2008.2	2018.8
45°	1795.9	1819.8	1862.3	1894.1	1902.1
47.5°	1684.5	1703.1	1742.9	1772.1	1782.7
50°	1570.5	1589.0	1628.8	1652.7	1658.0
52.5°	1456.4	1469.6	1506.8	1528.0	1536.0
55°	1342.3	1355.6	1384.8	1408.6	1406.0
57.5°	1233.6	1238.9	1268.0	1284.0	1284.0
60°	1111.5	1116.8	1140.7	1151.3	1154.0
62.5°	997.5	1005.4	1024.0	1026.6	1026.6
65°	886.0	888.7	899.3	904.6	904.6
67.5°	774.6	772.0	782.6	782.6	779.9
70°	657.9	663.2	665.9	660.5	657.9
72.5°	551.8	549.1	549.1	546.5	546.5
75°	448.3	443.0	445.7	435.1	432.4
77.5°	352.8	344.9	342.2	336.9	331.6
80°	254.7	254.7	252.0	246.7	244.1
82.5°	169.8	169.8	167.1	161.8	156.5
85°	95.5	95.5	92.8	84.9	82.2
87.5°	31.8	31.8	31.8	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)