

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: P296842

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7392.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

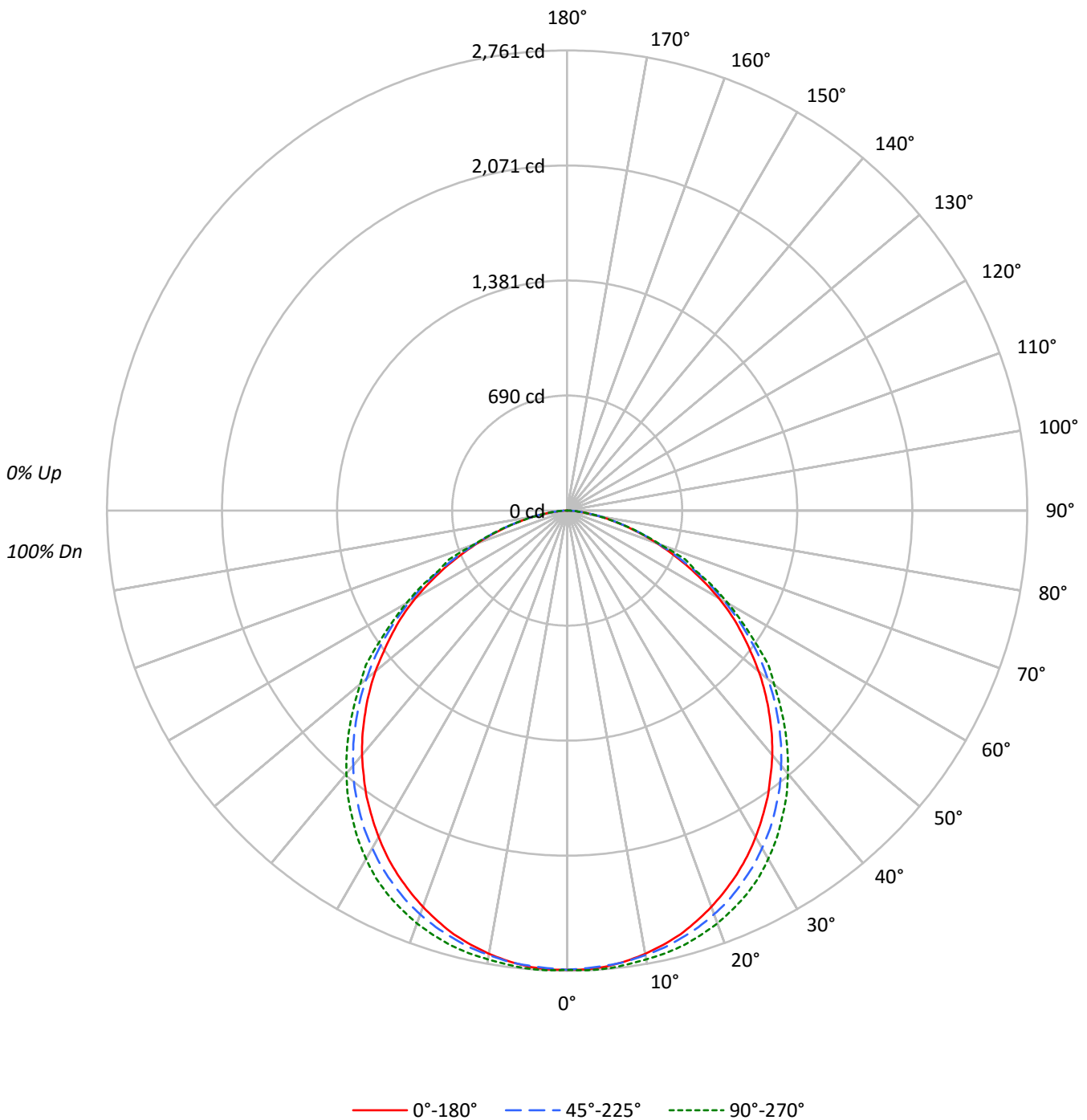
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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°	3708	3708	3708
5°	3708	3700	3725
10°	3689	3700	3736
15°	3665	3698	3761
20°	3623	3691	3775
25°	3575	3670	3776
30°	3515	3634	3750
35°	3446	3581	3694
40°	3363	3508	3620
45°	3260	3412	3518
50°	3142	3292	3392
55°	2999	3136	3229
60°	2826	2933	3005
65°	2567	2651	2702
70°	2254	2306	2337
75°	1903	1930	1944
80°	1521	1541	1500
85°	1024	1065	1024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	3.5
10°-20°	751.0	10.2
20°-30°	1139.5	15.4
30°-40°	1360.4	18.4
40°-50°	1377.3	18.6
50°-60°	1190.5	16.1
60°-70°	825.1	11.2
70°-80°	399.2	5.4
80°-90°	87.8	1.2
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°	2151.7	29.1
0°-40°	3512.1	47.5
0°-60°	6079.9	82.2
0°-90°	7392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2745	2742	2740	2753	2758	261
15°	2631	2636	2655	2687	2700	741
25°	2408	2424	2472	2522	2544	1109
35°	2098	2116	2180	2236	2249	1311
45°	1713	1737	1793	1838	1849	1322
55°	1278	1292	1337	1392	1376	1143
65°	806	814	833	846	849	798
75°	366	369	371	369	374	393
85°	66	72	69	66	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2755.7	2755.7	2755.7	2755.7	2755.7
2.5°	2755.7	2753.0	2747.7	2755.7	2761.0
5°	2745.1	2742.4	2739.8	2753.0	2758.3
7.5°	2726.5	2726.5	2729.2	2742.4	2747.7
10°	2700.0	2702.6	2707.9	2729.2	2734.5
12.5°	2668.2	2673.5	2686.7	2710.6	2721.2
15°	2631.0	2636.3	2654.9	2686.7	2700.0
17.5°	2583.3	2593.9	2620.4	2657.6	2670.8
20°	2530.2	2543.5	2578.0	2620.4	2636.3
22.5°	2471.9	2485.2	2530.2	2575.3	2591.2
25°	2408.2	2424.2	2471.9	2522.3	2543.5
27.5°	2339.3	2357.8	2410.9	2463.9	2485.2
30°	2262.4	2283.6	2339.3	2395.0	2413.5
32.5°	2180.1	2201.4	2265.0	2318.1	2336.6
35°	2097.9	2116.5	2180.1	2235.8	2249.1
37.5°	2005.1	2026.3	2095.3	2143.0	2161.6
40°	1914.9	1936.1	1997.1	2044.9	2060.8
42.5°	1816.8	1838.0	1899.0	1944.1	1957.4
45°	1713.4	1737.2	1792.9	1838.0	1848.6
47.5°	1609.9	1628.5	1686.8	1726.6	1734.6
50°	1501.2	1519.7	1572.8	1612.6	1620.5
52.5°	1387.1	1416.3	1458.7	1487.9	1522.4
55°	1278.4	1291.6	1336.7	1392.4	1376.5
57.5°	1169.6	1177.6	1214.7	1238.6	1243.9
60°	1050.3	1060.9	1090.1	1103.3	1116.6
62.5°	925.6	933.6	968.1	981.3	986.6
65°	806.3	814.2	832.8	846.1	848.7
67.5°	684.3	692.2	708.1	718.8	766.5
70°	572.9	578.2	586.1	607.4	594.1
72.5°	466.8	469.4	477.4	477.4	480.1
75°	366.0	368.7	371.3	368.7	374.0
77.5°	273.2	278.5	281.1	278.5	275.8
80°	196.3	201.6	198.9	193.6	193.6
82.5°	127.3	130.0	127.3	124.7	124.7
85°	66.3	71.6	69.0	66.3	66.3
87.5°	23.9	26.5	29.2	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)