

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: P296898

Luminaire Tested: **D3X-WD-80L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296898
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-80L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7069.0 lumens
Efficiency: N/A
Efficacy: 111.9 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

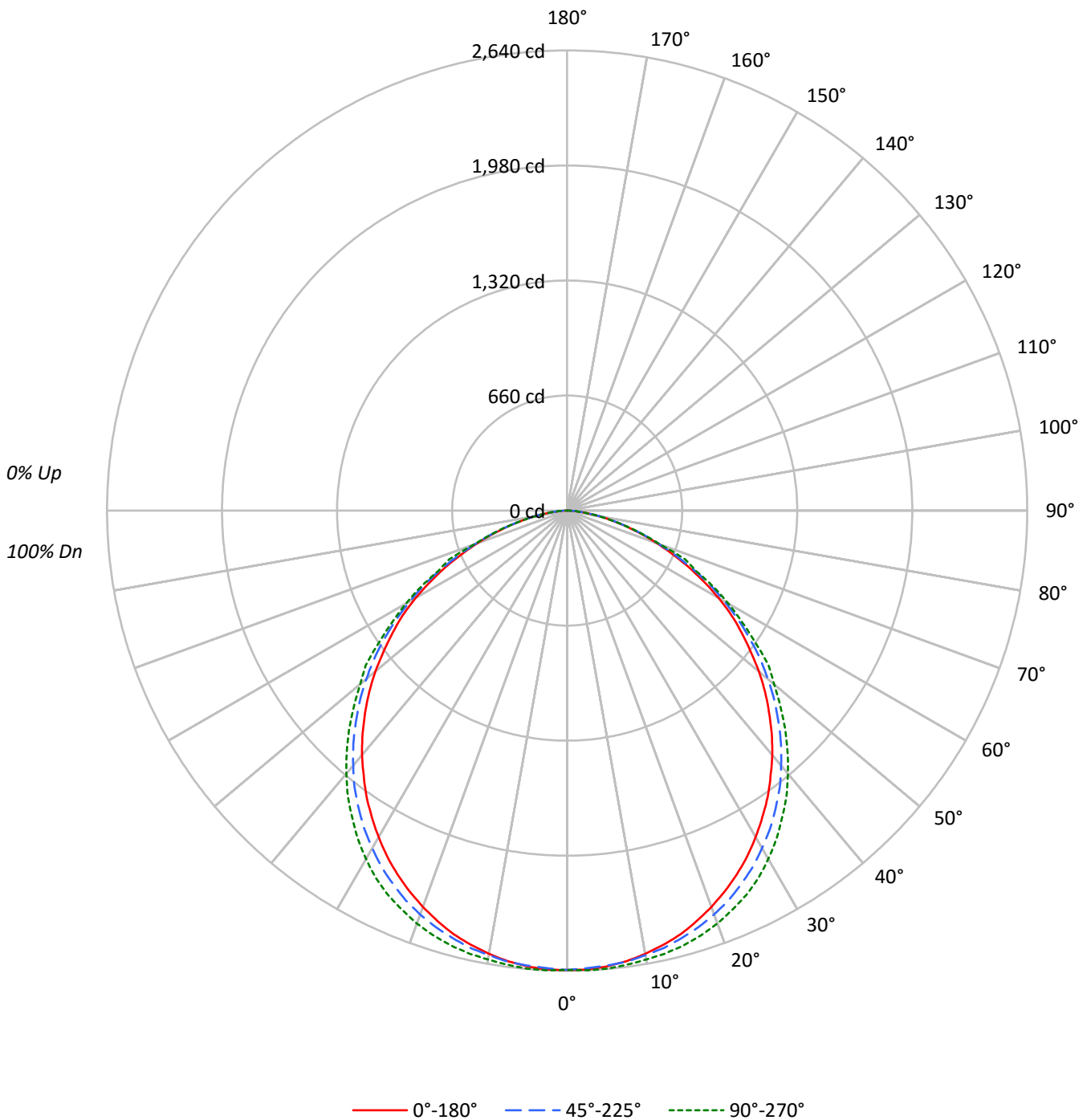
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3546	3546	3546
5°	3546	3539	3563
10°	3528	3538	3573
15°	3505	3537	3597
20°	3465	3530	3610
25°	3419	3509	3611
30°	3361	3476	3586
35°	3295	3425	3533
40°	3216	3355	3461
45°	3118	3263	3364
50°	3005	3148	3244
55°	2868	2999	3088
60°	2703	2805	2873
65°	2455	2535	2584
70°	2155	2205	2235
75°	1820	1846	1859
80°	1454	1474	1435
85°	979	1017	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	3.5
10°-20°	718.2	10.2
20°-30°	1089.7	15.4
30°-40°	1301.0	18.4
40°-50°	1317.1	18.6
50°-60°	1138.5	16.1
60°-70°	789.1	11.2
70°-80°	381.8	5.4
80°-90°	83.9	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°	2057.7	29.1
0°-40°	3358.6	47.5
0°-60°	5814.2	82.2
0°-90°	7069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2635	2635	2635	2635	2635	
5°	2625	2623	2620	2633	2638	249
15°	2516	2521	2539	2569	2582	709
25°	2303	2318	2364	2412	2432	1061
35°	2006	2024	2085	2138	2151	1253
45°	1638	1661	1715	1758	1768	1264
55°	1222	1235	1278	1332	1316	1093
65°	771	779	796	809	812	763
75°	350	353	355	353	358	376
85°	63	68	66	63	63	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2635.3	2635.3	2635.3	2635.3	2635.3
2.5°	2635.3	2632.7	2627.7	2635.3	2640.3
5°	2625.1	2622.6	2620.1	2632.7	2637.8
7.5°	2607.4	2607.4	2609.9	2622.6	2627.7
10°	2582.0	2584.5	2589.6	2609.9	2615.0
12.5°	2551.6	2556.6	2569.3	2592.2	2602.3
15°	2516.1	2521.1	2538.9	2569.3	2582.0
17.5°	2470.4	2480.6	2505.9	2541.4	2554.1
20°	2419.7	2432.4	2465.3	2505.9	2521.1
22.5°	2363.9	2376.6	2419.7	2462.8	2478.0
25°	2303.0	2318.2	2363.9	2412.1	2432.4
27.5°	2237.1	2254.8	2305.5	2356.3	2376.6
30°	2163.5	2183.8	2237.1	2290.3	2308.1
32.5°	2084.9	2105.2	2166.0	2216.8	2234.5
35°	2006.3	2024.0	2084.9	2138.1	2150.8
37.5°	1917.5	1937.8	2003.7	2049.4	2067.1
40°	1831.2	1851.5	1909.9	1955.5	1970.7
42.5°	1737.4	1757.7	1816.0	1859.1	1871.8
45°	1638.5	1661.3	1714.6	1757.7	1767.8
47.5°	1539.6	1557.3	1613.1	1651.2	1658.8
50°	1435.6	1453.3	1504.1	1542.1	1549.7
52.5°	1326.5	1354.4	1395.0	1422.9	1455.9
55°	1222.5	1235.2	1278.3	1331.6	1316.4
57.5°	1118.5	1126.1	1161.7	1184.5	1189.6
60°	1004.4	1014.5	1042.4	1055.1	1067.8
62.5°	885.2	892.8	925.8	938.5	943.5
65°	771.1	778.7	796.4	809.1	811.6
67.5°	654.4	662.0	677.2	687.4	733.0
70°	547.9	552.9	560.5	580.8	568.1
72.5°	446.4	448.9	456.5	456.5	459.1
75°	350.0	352.6	355.1	352.6	357.6
77.5°	261.2	266.3	268.9	266.3	263.8
80°	187.7	192.8	190.2	185.2	185.2
82.5°	121.7	124.3	121.7	119.2	119.2
85°	63.4	68.5	65.9	63.4	63.4
87.5°	22.8	25.4	27.9	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)