

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: P296841

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296841
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7146.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

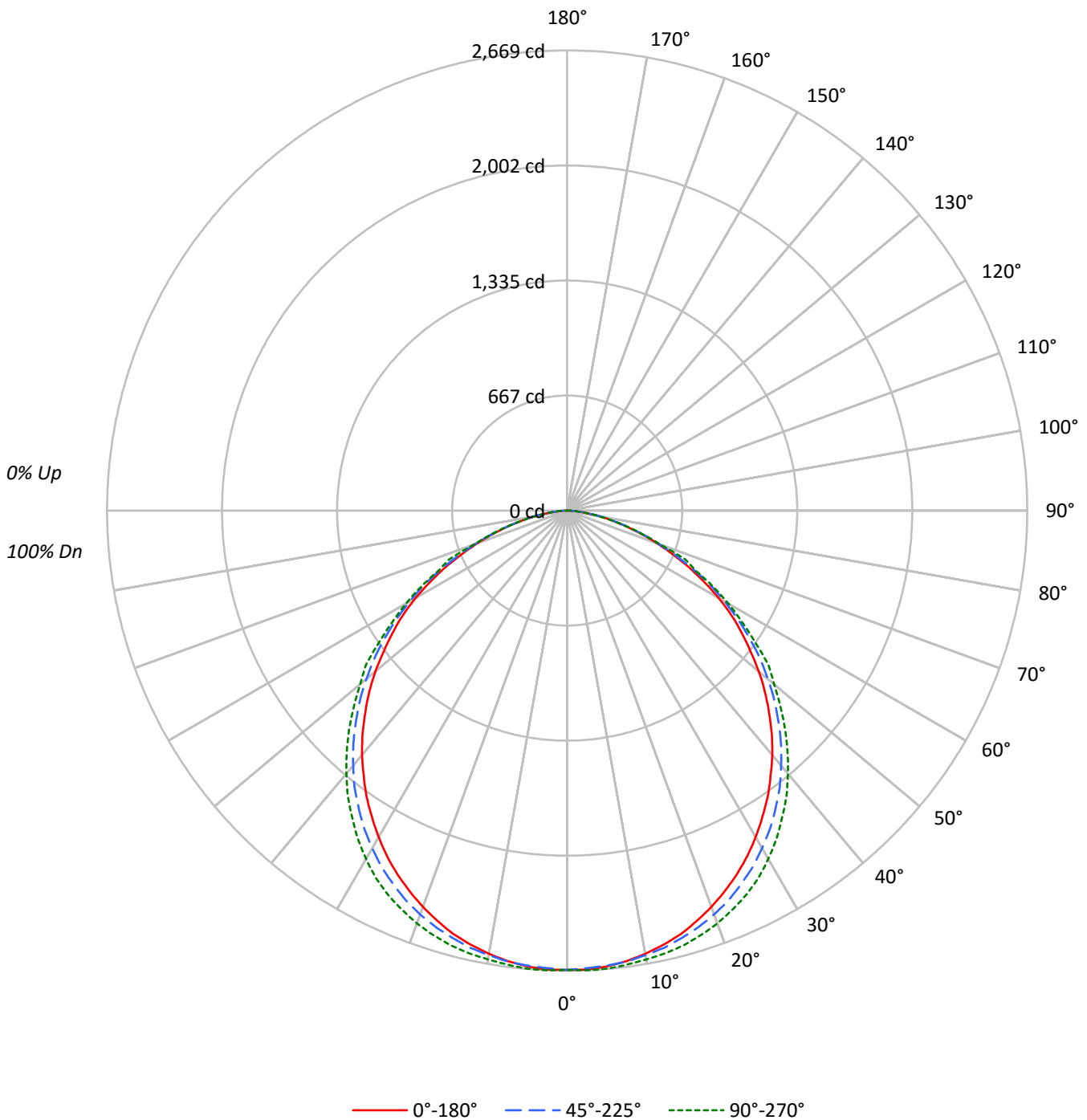
Input Watts (W): 60.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3584	3584	3584
5°	3584	3577	3601
10°	3566	3577	3612
15°	3543	3575	3636
20°	3502	3568	3649
25°	3456	3548	3650
30°	3398	3513	3625
35°	3331	3462	3571
40°	3251	3391	3499
45°	3152	3298	3401
50°	3038	3183	3279
55°	2899	3031	3122
60°	2732	2836	2905
65°	2482	2563	2612
70°	2179	2229	2259
75°	1839	1866	1879
80°	1470	1490	1450
85°	990	1030	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	3.5
10°-20°	726.0	10.2
20°-30°	1101.6	15.4
30°-40°	1315.1	18.4
40°-50°	1331.4	18.6
50°-60°	1150.9	16.1
60°-70°	797.7	11.2
70°-80°	385.9	5.4
80°-90°	84.9	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°	2080.1	29.1
0°-40°	3395.2	47.5
0°-60°	5877.5	82.2
0°-90°	7146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2654	2651	2649	2661	2666	252
15°	2544	2549	2566	2597	2610	717
25°	2328	2344	2390	2438	2459	1072
35°	2028	2046	2108	2161	2174	1267
45°	1656	1679	1733	1777	1787	1278
55°	1236	1249	1292	1346	1331	1104
65°	780	787	805	818	820	771
75°	354	356	359	356	362	380
85°	64	69	67	64	64	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	2664.0	2661.4	2656.3	2664.0	2669.1
5°	2653.7	2651.2	2648.6	2661.4	2666.5
7.5°	2635.8	2635.8	2638.3	2651.2	2656.3
10°	2610.1	2612.7	2617.8	2638.3	2643.5
12.5°	2579.4	2584.5	2597.3	2620.4	2630.6
15°	2543.5	2548.6	2566.5	2597.3	2610.1
17.5°	2497.3	2507.6	2533.2	2569.1	2581.9
20°	2446.0	2458.9	2492.2	2533.2	2548.6
22.5°	2389.6	2402.5	2446.0	2489.6	2505.0
25°	2328.1	2343.5	2389.6	2438.3	2458.9
27.5°	2261.4	2279.4	2330.7	2381.9	2402.5
30°	2187.1	2207.6	2261.4	2315.3	2333.2
32.5°	2107.6	2128.1	2189.6	2240.9	2258.9
35°	2028.1	2046.1	2107.6	2161.4	2174.3
37.5°	1938.4	1958.9	2025.5	2071.7	2089.6
40°	1851.2	1871.7	1930.7	1976.8	1992.2
42.5°	1756.3	1776.8	1835.8	1879.4	1892.2
45°	1656.3	1679.4	1733.3	1776.8	1787.1
47.5°	1556.3	1574.3	1630.7	1669.2	1676.8
50°	1451.2	1469.2	1520.4	1558.9	1566.6
52.5°	1341.0	1369.2	1410.2	1438.4	1471.7
55°	1235.8	1248.7	1292.2	1346.1	1330.7
57.5°	1130.7	1138.4	1174.3	1197.4	1202.5
60°	1015.3	1025.6	1053.8	1066.6	1079.4
62.5°	894.8	902.5	935.9	948.7	953.8
65°	779.5	787.1	805.1	817.9	820.5
67.5°	661.5	669.2	684.6	694.8	741.0
70°	553.8	558.9	566.6	587.2	574.3
72.5°	451.3	453.8	461.5	461.5	464.1
75°	353.8	356.4	359.0	356.4	361.5
77.5°	264.1	269.2	271.8	269.2	266.7
80°	189.7	194.9	192.3	187.2	187.2
82.5°	123.1	125.6	123.1	120.5	120.5
85°	64.1	69.2	66.7	64.1	64.1
87.5°	23.1	25.6	28.2	30.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)