

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: P296843

Luminaire Tested: **D3X-WD-80L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296843
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7555.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

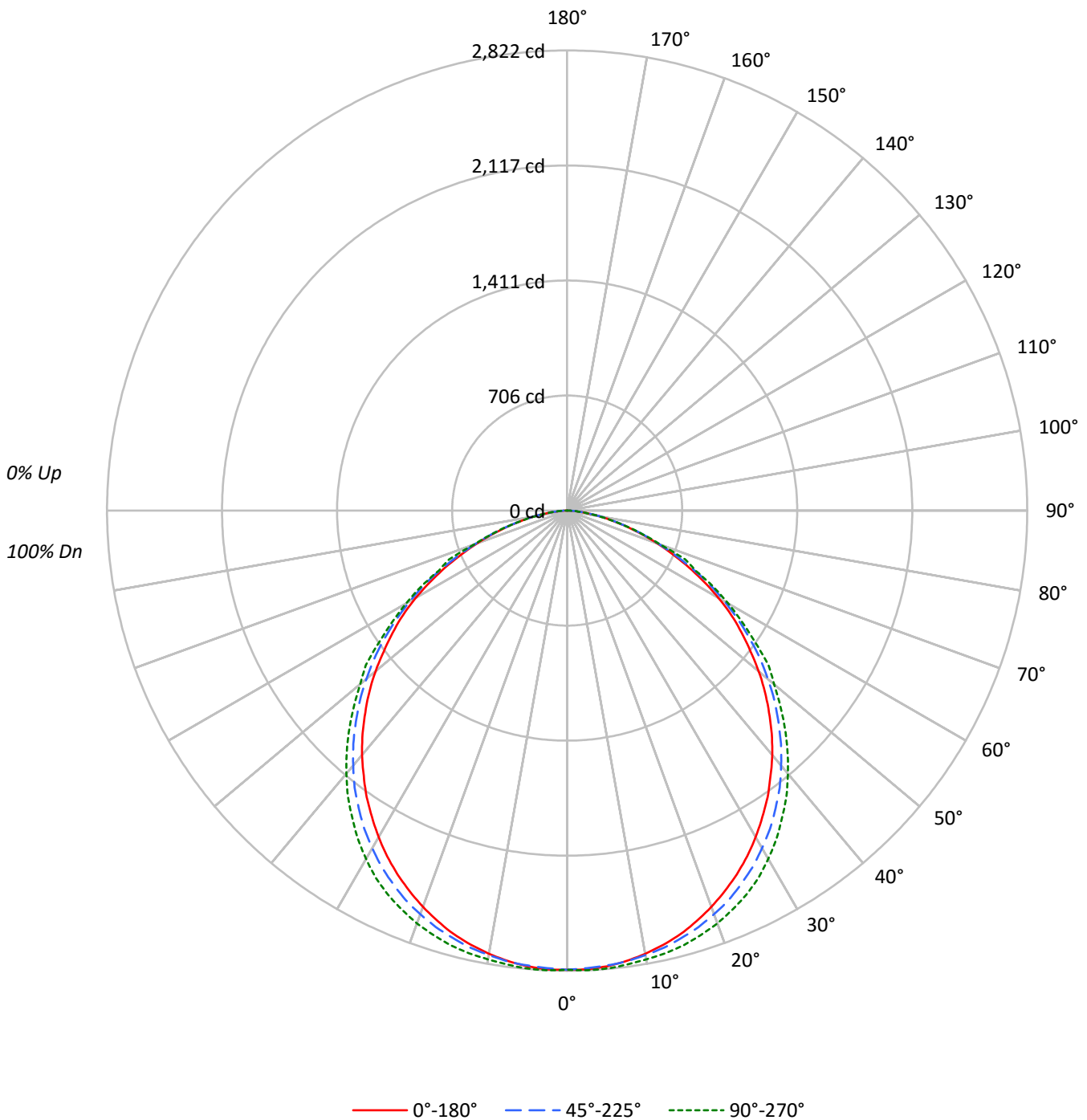
Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3789	3789	3789
5°	3789	3782	3808
10°	3770	3781	3818
15°	3746	3780	3844
20°	3703	3773	3858
25°	3654	3751	3859
30°	3592	3715	3833
35°	3522	3660	3776
40°	3437	3585	3699
45°	3332	3487	3595
50°	3212	3365	3467
55°	3065	3205	3300
60°	2888	2998	3071
65°	2624	2710	2762
70°	2303	2357	2389
75°	1945	1973	1987
80°	1554	1575	1533
85°	1047	1088	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.9	3.5
10°-20°	767.6	10.2
20°-30°	1164.6	15.4
30°-40°	1390.4	18.4
40°-50°	1407.6	18.6
50°-60°	1216.7	16.1
60°-70°	843.3	11.2
70°-80°	408.0	5.4
80°-90°	89.7	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°	2199.1	29.1
0°-40°	3589.5	47.5
0°-60°	6213.9	82.2
0°-90°	7555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2806	2803	2800	2814	2819	266
15°	2689	2694	2713	2746	2760	758
25°	2461	2478	2526	2578	2600	1134
35°	2144	2163	2228	2285	2299	1339
45°	1751	1776	1832	1878	1889	1351
55°	1307	1320	1366	1423	1407	1168
65°	824	832	851	865	867	816
75°	374	377	380	377	382	401
85°	68	73	70	68	68	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2816.4	2813.7	2808.3	2816.4	2821.9
5°	2805.6	2802.9	2800.2	2813.7	2819.2
7.5°	2786.6	2786.6	2789.3	2802.9	2808.3
10°	2759.5	2762.2	2767.7	2789.3	2794.8
12.5°	2727.0	2732.4	2746.0	2770.4	2781.2
15°	2689.0	2694.5	2713.4	2746.0	2759.5
17.5°	2640.3	2651.1	2678.2	2716.2	2729.7
20°	2586.0	2599.6	2634.8	2678.2	2694.5
22.5°	2526.4	2540.0	2586.0	2632.1	2648.4
25°	2461.3	2477.6	2526.4	2577.9	2599.6
27.5°	2390.9	2409.8	2464.1	2518.3	2540.0
30°	2312.3	2333.9	2390.9	2447.8	2466.8
32.5°	2228.2	2249.9	2315.0	2369.2	2388.2
35°	2144.2	2163.2	2228.2	2285.1	2298.7
37.5°	2049.3	2071.0	2141.5	2190.3	2209.2
40°	1957.1	1978.8	2041.2	2090.0	2106.2
42.5°	1856.9	1878.5	1940.9	1987.0	2000.5
45°	1751.1	1775.5	1832.5	1878.5	1889.4
47.5°	1645.4	1664.4	1724.0	1764.7	1772.8
50°	1534.3	1553.2	1607.5	1648.1	1656.3
52.5°	1417.7	1447.5	1490.9	1520.7	1556.0
55°	1306.6	1320.1	1366.2	1423.1	1406.9
57.5°	1195.4	1203.6	1241.5	1265.9	1271.3
60°	1073.4	1084.3	1114.1	1127.7	1141.2
62.5°	946.0	954.2	989.4	1003.0	1008.4
65°	824.1	832.2	851.2	864.7	867.4
67.5°	699.4	707.5	723.8	734.6	783.4
70°	585.5	590.9	599.1	620.8	607.2
72.5°	477.1	479.8	487.9	487.9	490.6
75°	374.1	376.8	379.5	376.8	382.2
77.5°	279.2	284.6	287.3	284.6	281.9
80°	200.6	206.0	203.3	197.9	197.9
82.5°	130.1	132.8	130.1	127.4	127.4
85°	67.8	73.2	70.5	67.8	67.8
87.5°	24.4	27.1	29.8	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)