

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: P297032

Luminaire Tested: **D3X-WG-74L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-74L83050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7410.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

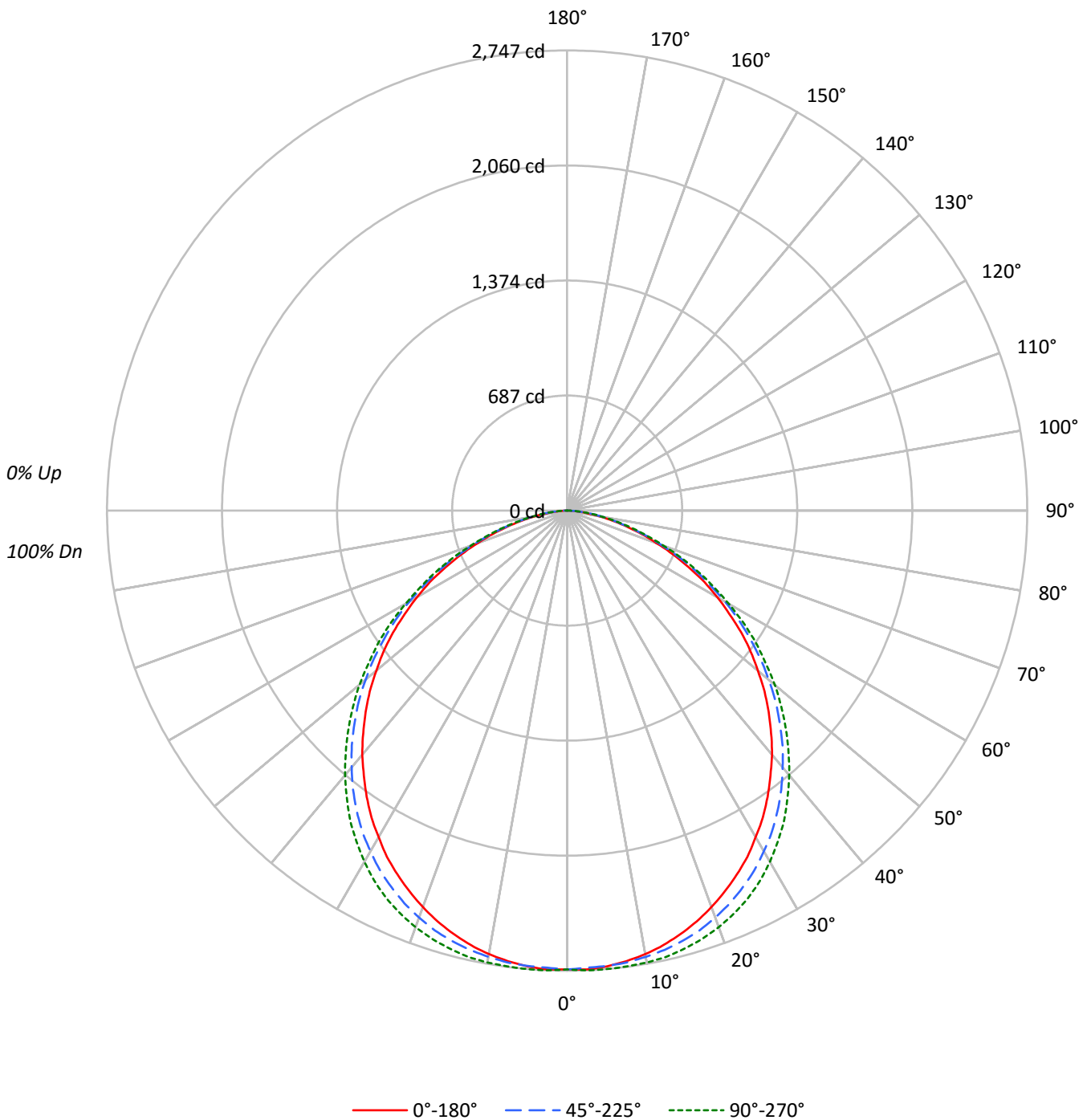
Input Watts (W): 57.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3686	3686	3686
5°	3689	3685	3711
10°	3674	3695	3743
15°	3646	3705	3771
20°	3607	3702	3789
25°	3558	3684	3791
30°	3497	3650	3761
35°	3427	3597	3710
40°	3343	3515	3623
45°	3238	3414	3515
50°	3112	3289	3389
55°	2976	3126	3225
60°	2786	2929	3000
65°	2544	2679	2747
70°	2234	2349	2412
75°	1891	1987	2056
80°	1502	1646	1687
85°	1025	1229	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	3.5
10°-20°	751.4	10.1
20°-30°	1142.0	15.4
30°-40°	1362.6	18.4
40°-50°	1376.2	18.6
50°-60°	1185.7	16.0
60°-70°	826.6	11.2
70°-80°	409.6	5.5
80°-90°	95.5	1.3
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°	2153.7	29.1
0°-40°	3516.3	47.5
0°-60°	6078.3	82.0
0°-90°	7410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2739	2739	2739	2739	2739	
5°	2731	2729	2729	2742	2747	259
15°	2617	2630	2660	2694	2708	738
25°	2397	2429	2482	2532	2554	1104
35°	2086	2121	2190	2240	2259	1304
45°	1702	1739	1794	1837	1847	1312
55°	1269	1295	1332	1364	1375	1131
65°	799	815	841	849	863	793
75°	364	369	382	390	396	392
85°	66	80	80	74	77	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2739.3	2739.3	2739.3	2739.3	2739.3
2.5°	2742.0	2736.7	2731.4	2742.0	2747.3
5°	2731.4	2728.7	2728.7	2742.0	2747.3
7.5°	2712.8	2712.8	2720.7	2739.3	2744.6
10°	2688.9	2694.2	2704.8	2731.4	2739.3
12.5°	2657.0	2667.7	2686.2	2718.1	2728.7
15°	2617.2	2630.5	2659.7	2694.2	2707.5
17.5°	2572.1	2590.7	2627.8	2667.7	2680.9
20°	2519.0	2542.9	2585.4	2630.5	2646.4
22.5°	2460.6	2489.8	2537.6	2585.4	2603.9
25°	2396.9	2428.8	2481.8	2532.3	2553.5
27.5°	2330.5	2362.4	2420.8	2471.2	2492.5
30°	2250.9	2288.1	2349.1	2402.2	2420.8
32.5°	2173.9	2211.1	2274.8	2322.6	2341.2
35°	2086.3	2120.8	2189.9	2240.3	2258.9
37.5°	1993.4	2033.3	2099.6	2144.7	2160.7
40°	1903.2	1937.7	2001.4	2046.5	2062.5
42.5°	1802.3	1839.5	1903.2	1943.0	1956.3
45°	1701.5	1738.6	1794.4	1836.8	1847.4
47.5°	1597.9	1632.4	1688.2	1722.7	1733.3
50°	1486.5	1518.3	1571.4	1605.9	1619.2
52.5°	1380.3	1409.5	1454.6	1483.8	1491.8
55°	1268.8	1295.3	1332.5	1364.4	1375.0
57.5°	1149.3	1178.5	1213.1	1239.6	1247.6
60°	1035.2	1059.1	1088.3	1112.2	1114.8
62.5°	923.7	934.3	960.9	982.1	984.8
65°	799.0	814.9	841.4	849.4	862.7
67.5°	684.8	695.4	716.7	727.3	737.9
70°	568.0	576.0	597.2	610.5	613.2
72.5°	467.2	469.8	485.8	496.4	499.0
75°	363.7	369.0	382.2	390.2	395.5
77.5°	276.1	281.4	292.0	297.3	297.3
80°	193.8	201.7	212.4	215.0	217.7
82.5°	124.8	135.4	143.3	146.0	140.7
85°	66.4	79.6	79.6	74.3	77.0
87.5°	23.9	29.2	31.9	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)