

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: P297031

Luminaire Tested: **D3X-WG-74L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297031
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7340.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

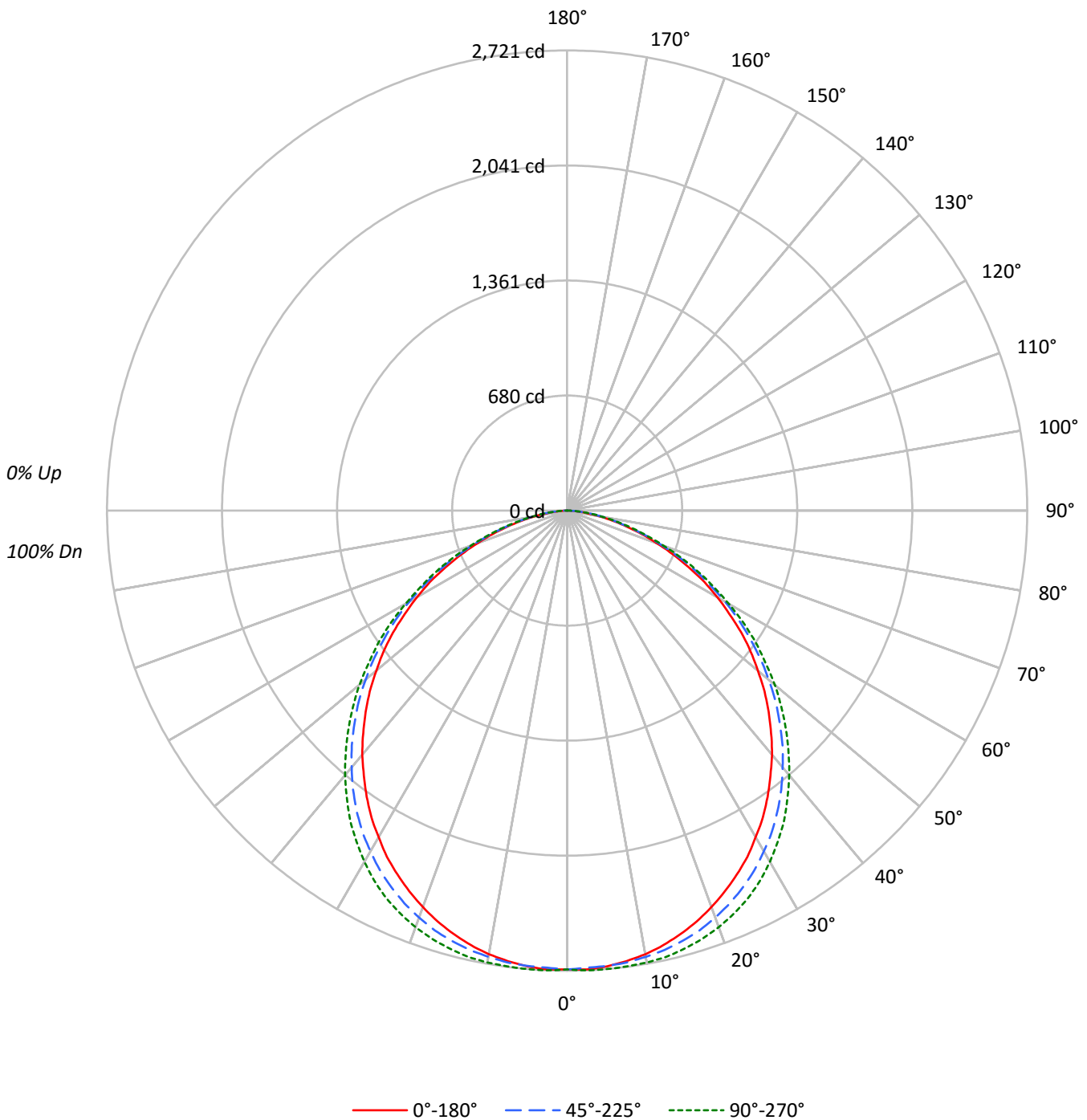
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3651	3651	3651
5°	3654	3651	3675
10°	3639	3661	3707
15°	3611	3670	3736
20°	3573	3667	3753
25°	3525	3650	3755
30°	3464	3615	3725
35°	3394	3563	3675
40°	3311	3482	3588
45°	3207	3382	3482
50°	3082	3258	3357
55°	2948	3096	3195
60°	2759	2901	2972
65°	2520	2654	2720
70°	2214	2327	2389
75°	1873	1968	2037
80°	1487	1629	1671
85°	1014	1218	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	3.5
10°-20°	744.3	10.1
20°-30°	1131.2	15.4
30°-40°	1349.8	18.4
40°-50°	1363.2	18.6
50°-60°	1174.5	16.0
60°-70°	818.8	11.2
70°-80°	405.8	5.5
80°-90°	94.6	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°	2133.3	29.1
0°-40°	3483.1	47.5
0°-60°	6020.9	82.0
0°-90°	7340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2713	2713	2713	2713	2713	
5°	2706	2703	2703	2716	2721	257
15°	2592	2606	2635	2669	2682	731
25°	2374	2406	2458	2508	2529	1094
35°	2067	2101	2169	2219	2238	1292
45°	1685	1722	1777	1820	1830	1299
55°	1257	1283	1320	1352	1362	1120
65°	791	807	834	841	854	786
75°	360	366	379	386	392	388
85°	66	79	79	74	76	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2716.1	2710.8	2705.6	2716.1	2721.3
5°	2705.6	2702.9	2702.9	2716.1	2721.3
7.5°	2687.1	2687.1	2695.0	2713.4	2718.7
10°	2663.5	2668.7	2679.3	2705.6	2713.4
12.5°	2631.9	2642.5	2660.9	2692.4	2702.9
15°	2592.5	2605.6	2634.6	2668.7	2681.9
17.5°	2547.8	2566.2	2603.0	2642.5	2655.6
20°	2495.2	2518.9	2560.9	2605.6	2621.4
22.5°	2437.4	2466.3	2513.6	2560.9	2579.3
25°	2374.3	2405.8	2458.4	2508.4	2529.4
27.5°	2308.5	2340.1	2397.9	2447.9	2468.9
30°	2229.7	2266.5	2326.9	2379.5	2397.9
32.5°	2153.4	2190.2	2253.3	2300.6	2319.0
35°	2066.6	2100.8	2169.2	2219.1	2237.5
37.5°	1974.6	2014.0	2079.8	2124.5	2140.3
40°	1885.2	1919.4	1982.5	2027.2	2043.0
42.5°	1785.3	1822.1	1885.2	1924.7	1937.8
45°	1685.4	1722.2	1777.4	1819.5	1830.0
47.5°	1582.8	1617.0	1672.2	1706.4	1716.9
50°	1472.4	1504.0	1556.5	1590.7	1603.9
52.5°	1367.2	1396.2	1440.9	1469.8	1477.7
55°	1256.8	1283.1	1319.9	1351.5	1362.0
57.5°	1138.5	1167.4	1201.6	1227.9	1235.8
60°	1025.4	1049.1	1078.0	1101.7	1104.3
62.5°	915.0	925.5	951.8	972.8	975.5
65°	791.4	807.2	833.5	841.4	854.5
67.5°	678.4	688.9	709.9	720.4	730.9
70°	562.7	570.6	591.6	604.7	607.4
72.5°	462.8	465.4	481.2	491.7	494.3
75°	360.2	365.5	378.6	386.5	391.8
77.5°	273.4	278.7	289.2	294.5	294.5
80°	191.9	199.8	210.3	213.0	215.6
82.5°	123.6	134.1	142.0	144.6	139.4
85°	65.7	78.9	78.9	73.6	76.2
87.5°	23.7	28.9	31.6	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)