

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: P296751

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296751
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-74L83050-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: 7327.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

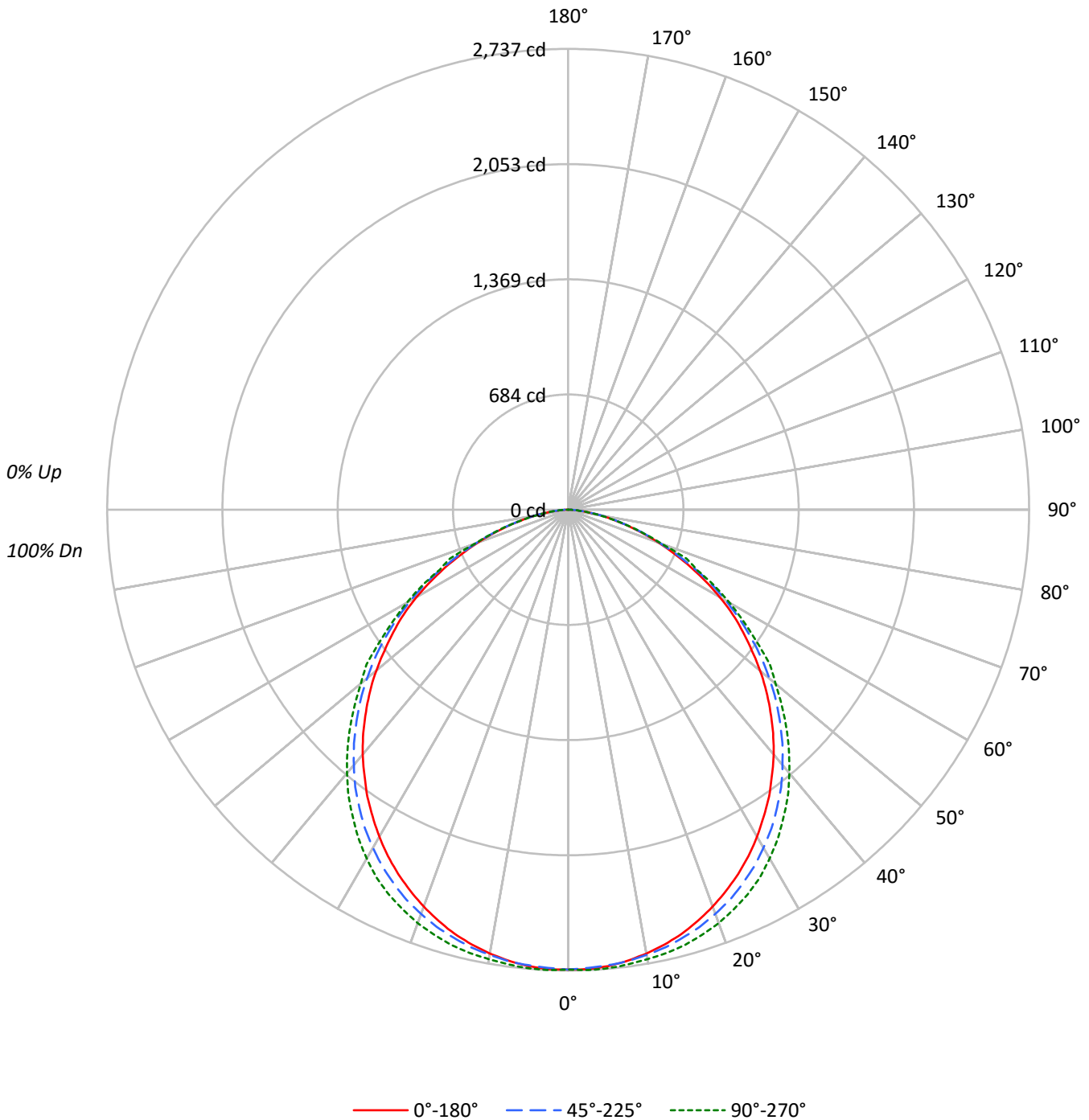
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3675	3675	3675
5°	3675	3668	3693
10°	3656	3667	3703
15°	3633	3666	3728
20°	3591	3659	3742
25°	3544	3638	3743
30°	3484	3602	3717
35°	3416	3550	3662
40°	3334	3477	3588
45°	3232	3382	3487
50°	3115	3263	3362
55°	2972	3108	3201
60°	2802	2908	2978
65°	2544	2628	2678
70°	2234	2286	2317
75°	1886	1913	1927
80°	1507	1528	1487
85°	1014	1056	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	3.5
10°-20°	744.4	10.2
20°-30°	1129.5	15.4
30°-40°	1348.5	18.4
40°-50°	1365.2	18.6
50°-60°	1180.0	16.1
60°-70°	817.9	11.2
70°-80°	395.7	5.4
80°-90°	87.0	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°	2132.8	29.1
0°-40°	3481.2	47.5
0°-60°	6026.4	82.2
0°-90°	7327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2721	2718	2716	2729	2734	258
15°	2608	2613	2632	2663	2676	735
25°	2387	2403	2450	2500	2521	1099
35°	2080	2098	2161	2216	2229	1299
45°	1698	1722	1777	1822	1832	1310
55°	1267	1280	1325	1380	1364	1132
65°	799	807	826	839	841	791
75°	363	365	368	365	371	389
85°	66	71	68	66	66	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2731.5	2731.5	2731.5	2731.5	2731.5
2.5°	2731.5	2728.8	2723.6	2731.5	2736.7
5°	2720.9	2718.3	2715.7	2728.8	2734.1
7.5°	2702.5	2702.5	2705.2	2718.3	2723.6
10°	2676.2	2678.9	2684.1	2705.2	2710.4
12.5°	2644.7	2650.0	2663.1	2686.8	2697.3
15°	2607.9	2613.2	2631.6	2663.1	2676.2
17.5°	2560.6	2571.1	2597.4	2634.2	2647.3
20°	2508.0	2521.1	2555.3	2597.4	2613.2
22.5°	2450.2	2463.3	2508.0	2552.7	2568.5
25°	2387.1	2402.8	2450.2	2500.1	2521.1
27.5°	2318.7	2337.1	2389.7	2442.3	2463.3
30°	2242.5	2263.5	2318.7	2373.9	2392.3
32.5°	2161.0	2182.0	2245.1	2297.7	2316.1
35°	2079.5	2097.9	2161.0	2216.2	2229.3
37.5°	1987.5	2008.5	2076.9	2124.2	2142.6
40°	1898.1	1919.1	1979.6	2026.9	2042.7
42.5°	1800.8	1821.8	1882.3	1927.0	1940.1
45°	1698.3	1721.9	1777.2	1821.8	1832.4
47.5°	1595.8	1614.2	1672.0	1711.4	1719.3
50°	1488.0	1506.4	1559.0	1598.4	1606.3
52.5°	1374.9	1403.8	1445.9	1474.8	1509.0
55°	1267.1	1280.3	1325.0	1380.2	1364.4
57.5°	1159.4	1167.2	1204.0	1227.7	1233.0
60°	1041.1	1051.6	1080.5	1093.6	1106.8
62.5°	917.5	925.4	959.6	972.7	978.0
65°	799.2	807.1	825.5	838.6	841.3
67.5°	678.3	686.1	701.9	712.4	759.8
70°	567.8	573.1	581.0	602.0	588.9
72.5°	462.7	465.3	473.2	473.2	475.8
75°	362.8	365.4	368.0	365.4	370.7
77.5°	270.8	276.0	278.7	276.0	273.4
80°	194.5	199.8	197.2	191.9	191.9
82.5°	126.2	128.8	126.2	123.6	123.6
85°	65.7	71.0	68.4	65.7	65.7
87.5°	23.7	26.3	28.9	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)