

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: P296896

Luminaire Tested: **D3X-WD-80L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296896
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-80L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6948.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

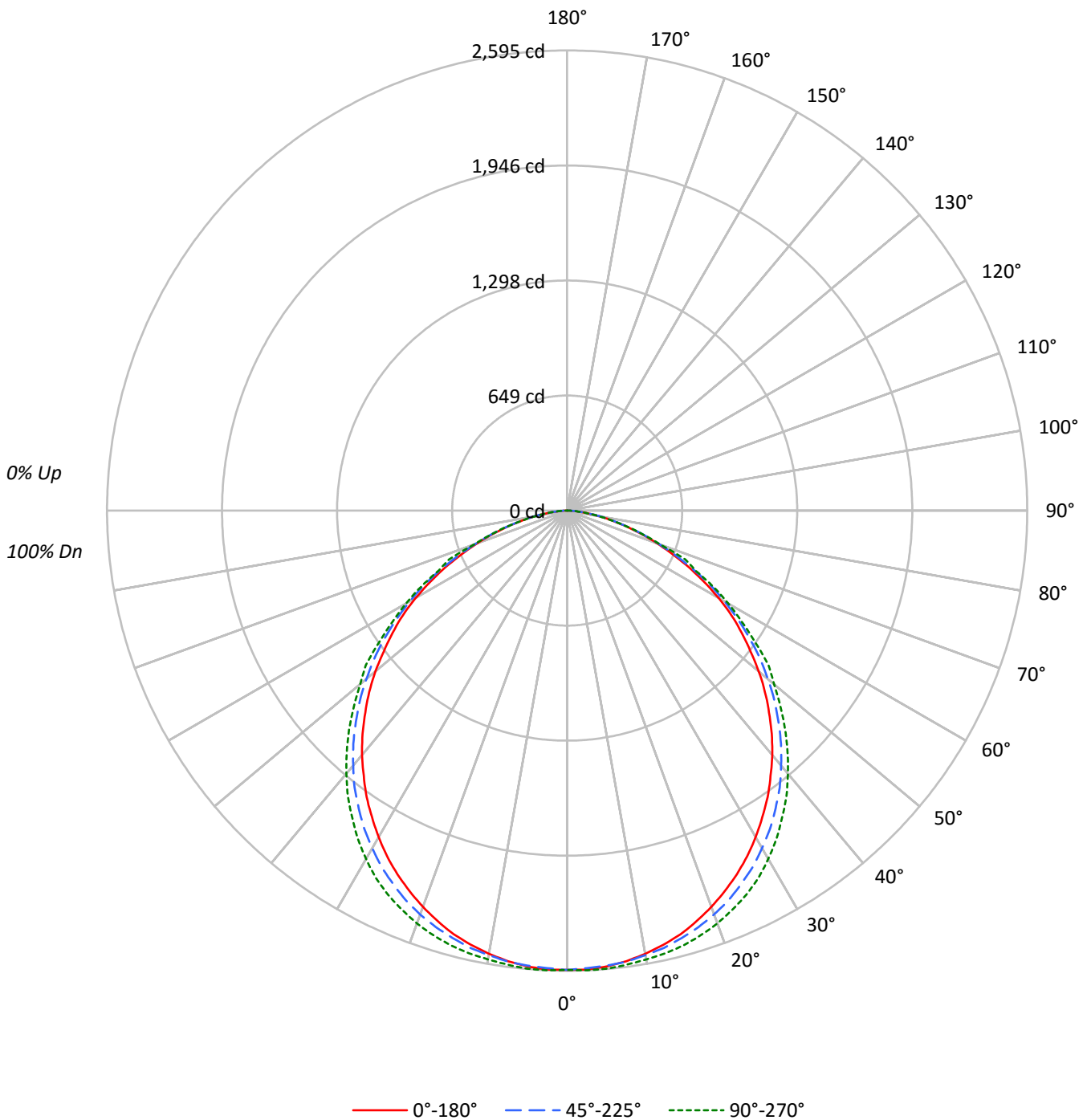
Input Watts (W): 62.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3485	3485	3485
5°	3485	3478	3502
10°	3467	3478	3512
15°	3445	3476	3535
20°	3405	3469	3548
25°	3361	3449	3549
30°	3304	3416	3525
35°	3239	3366	3472
40°	3161	3297	3402
45°	3064	3207	3306
50°	2954	3094	3188
55°	2819	2947	3035
60°	2657	2757	2824
65°	2413	2492	2540
70°	2118	2167	2197
75°	1788	1814	1827
80°	1430	1449	1410
85°	962	1000	962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	3.5
10°-20°	705.9	10.2
20°-30°	1071.0	15.4
30°-40°	1278.7	18.4
40°-50°	1294.6	18.6
50°-60°	1119.0	16.1
60°-70°	775.6	11.2
70°-80°	375.3	5.4
80°-90°	82.5	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°	2022.4	29.1
0°-40°	3301.1	47.5
0°-60°	5714.7	82.2
0°-90°	6948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2580	2578	2575	2588	2593	245
15°	2473	2478	2495	2525	2538	697
25°	2264	2278	2323	2371	2391	1042
35°	1972	1989	2049	2102	2114	1232
45°	1610	1633	1685	1728	1738	1242
55°	1202	1214	1256	1309	1294	1074
65°	758	765	783	795	798	750
75°	344	346	349	346	352	369
85°	62	67	65	62	62	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2590.2	2590.2	2590.2	2590.2	2590.2
2.5°	2590.2	2587.7	2582.7	2590.2	2595.2
5°	2580.2	2577.7	2575.2	2587.7	2592.7
7.5°	2562.7	2562.7	2565.2	2577.7	2582.7
10°	2537.8	2540.3	2545.3	2565.2	2570.2
12.5°	2507.9	2512.9	2525.3	2547.8	2557.8
15°	2473.0	2478.0	2495.4	2525.3	2537.8
17.5°	2428.1	2438.1	2463.0	2497.9	2510.4
20°	2378.3	2390.7	2423.1	2463.0	2478.0
22.5°	2323.4	2335.9	2378.3	2420.6	2435.6
25°	2263.6	2278.5	2323.4	2370.8	2390.7
27.5°	2198.8	2216.2	2266.1	2315.9	2335.9
30°	2126.5	2146.4	2198.8	2251.1	2268.6
32.5°	2049.2	2069.1	2129.0	2178.8	2196.3
35°	1971.9	1989.4	2049.2	2101.5	2114.0
37.5°	1884.7	1904.6	1969.4	2014.3	2031.7
40°	1799.9	1819.8	1877.2	1922.1	1937.0
42.5°	1707.7	1727.6	1784.9	1827.3	1839.8
45°	1610.4	1632.9	1685.2	1727.6	1737.6
47.5°	1513.2	1530.7	1585.5	1622.9	1630.4
50°	1411.0	1428.5	1478.3	1515.7	1523.2
52.5°	1303.8	1331.2	1371.1	1398.5	1430.9
55°	1201.6	1214.1	1256.4	1308.8	1293.8
57.5°	1099.4	1106.9	1141.8	1164.2	1169.2
60°	987.2	997.2	1024.6	1037.1	1049.5
62.5°	870.0	877.5	909.9	922.4	927.4
65°	757.9	765.3	782.8	795.2	797.7
67.5°	643.2	650.7	665.6	675.6	720.5
70°	538.5	543.5	550.9	570.9	558.4
72.5°	438.8	441.3	448.7	448.7	451.2
75°	344.0	346.5	349.0	346.5	351.5
77.5°	256.8	261.8	264.3	261.8	259.3
80°	184.5	189.5	187.0	182.0	182.0
82.5°	119.7	122.2	119.7	117.2	117.2
85°	62.3	67.3	64.8	62.3	62.3
87.5°	22.4	24.9	27.4	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)