

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: P297752

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3756.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

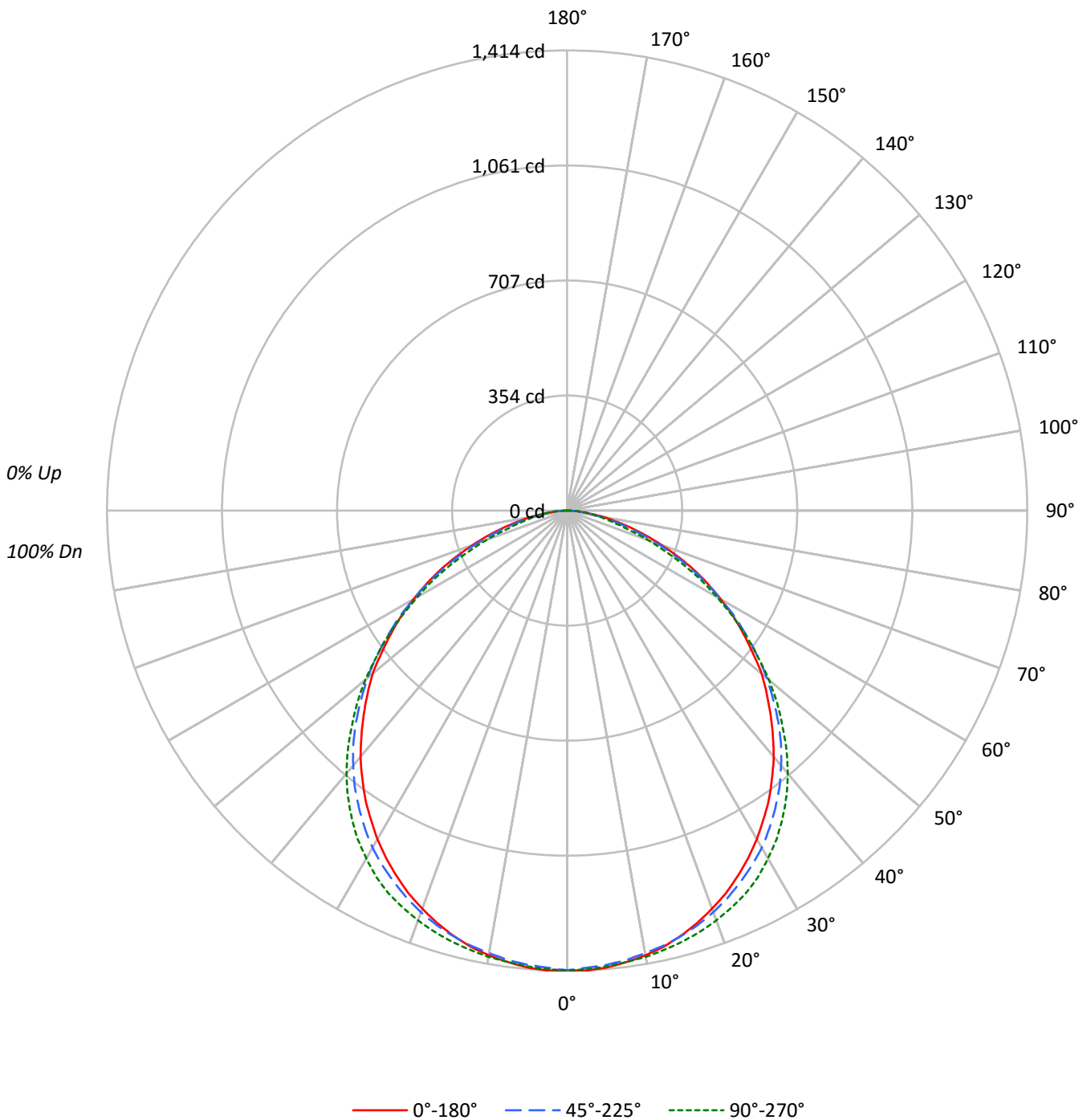
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3801	3801	3801
5°	3807	3784	3797
10°	3791	3772	3805
15°	3767	3772	3818
20°	3728	3761	3838
25°	3681	3740	3855
30°	3622	3716	3836
35°	3553	3664	3791
40°	3469	3593	3705
45°	3362	3490	3560
50°	3270	3354	3389
55°	3105	3168	3152
60°	2938	2938	2857
65°	2727	2663	2513
70°	2419	2312	2088
75°	2096	1904	1606
80°	1719	1483	1458
85°	1142	1349	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.6
10°-20°	383.4	10.2
20°-30°	582.7	15.5
30°-40°	697.6	18.6
40°-50°	703.7	18.7
50°-60°	599.4	16.0
60°-70°	409.8	10.9
70°-80°	196.3	5.2
80°-90°	49.7	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°	1099.6	29.3
0°-40°	1797.2	47.8
0°-60°	3100.2	82.5
0°-90°	3756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1409	1408	1401	1408	1406	134
15°	1352	1349	1354	1369	1371	381
25°	1240	1241	1260	1288	1298	571
35°	1082	1085	1115	1147	1154	676
45°	884	890	917	936	936	682
55°	662	665	675	677	672	592
65°	428	420	418	403	395	422
75°	202	198	183	160	154	215
85°	37	40	44	45	47	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.6	1412.6	1412.6	1412.6	1412.6
2.5°	1414.2	1412.6	1405.8	1412.6	1410.9
5°	1409.2	1407.5	1400.8	1407.5	1405.8
7.5°	1399.1	1397.4	1392.4	1399.1	1399.1
10°	1387.4	1384.0	1380.6	1390.7	1392.4
12.5°	1372.3	1368.9	1368.9	1380.6	1382.3
15°	1352.1	1348.7	1353.8	1368.9	1370.6
17.5°	1328.6	1326.9	1335.3	1353.8	1357.1
20°	1301.7	1300.0	1313.5	1335.3	1340.3
22.5°	1273.2	1273.2	1288.3	1313.5	1320.2
25°	1239.6	1241.2	1259.7	1288.3	1298.3
27.5°	1204.3	1207.6	1229.5	1261.4	1269.8
30°	1165.7	1170.7	1195.9	1226.1	1234.5
32.5°	1123.7	1128.7	1157.3	1189.2	1197.6
35°	1081.7	1085.0	1115.3	1147.2	1153.9
37.5°	1034.6	1039.7	1071.6	1100.2	1106.9
40°	987.6	992.7	1022.9	1049.8	1054.8
42.5°	935.5	942.3	972.5	994.3	997.7
45°	883.5	890.2	917.1	935.5	935.5
47.5°	831.4	834.8	858.3	876.8	875.1
50°	781.0	779.3	801.2	809.6	809.6
52.5°	718.9	723.9	739.0	744.1	739.0
55°	661.8	665.1	675.2	676.9	671.8
57.5°	606.3	604.7	613.1	608.0	601.3
60°	545.9	545.9	545.9	540.8	530.8
62.5°	487.1	483.7	482.1	470.3	465.3
65°	428.3	419.9	418.2	403.1	394.7
67.5°	366.2	362.8	354.4	339.3	324.2
70°	307.4	304.0	293.9	275.5	265.4
72.5°	253.6	250.3	236.8	215.0	201.6
75°	201.6	198.2	183.1	159.6	154.5
77.5°	152.8	151.2	136.0	124.3	122.6
80°	110.9	109.2	95.7	95.7	94.1
82.5°	70.5	70.5	67.2	68.9	70.5
85°	37.0	40.3	43.7	45.3	47.0
87.5°	11.8	18.5	21.8	23.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)