

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: P297781

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297781
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-40L93050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3530.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

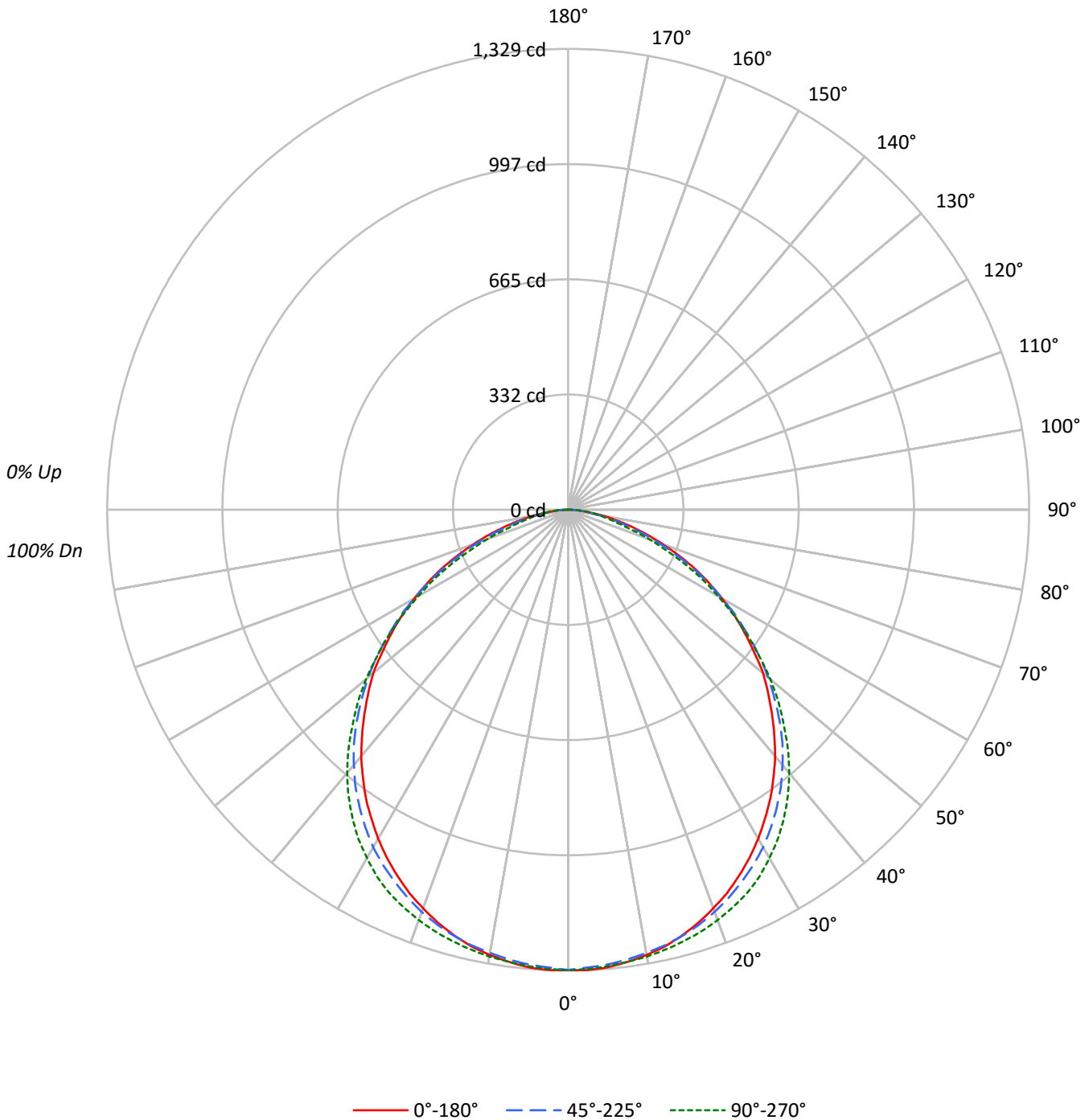
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3573	3573	3573
5°	3578	3556	3569
10°	3563	3546	3576
15°	3540	3545	3589
20°	3503	3535	3607
25°	3459	3515	3623
30°	3404	3492	3605
35°	3340	3443	3563
40°	3261	3377	3482
45°	3160	3280	3346
50°	3073	3152	3185
55°	2918	2977	2962
60°	2761	2761	2685
65°	2563	2503	2362
70°	2273	2173	1962
75°	1969	1789	1510
80°	1615	1395	1370
85°	1071	1266	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.6
10°-20°	360.3	10.2
20°-30°	547.6	15.5
30°-40°	655.6	18.6
40°-50°	661.3	18.7
50°-60°	563.3	16.0
60°-70°	385.2	10.9
70°-80°	184.5	5.2
80°-90°	46.7	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°	1033.4	29.3
0°-40°	1689.1	47.8
0°-60°	2913.7	82.5
0°-90°	3530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1324	1323	1316	1323	1321	126
15°	1271	1268	1272	1286	1288	358
25°	1165	1167	1184	1211	1220	537
35°	1017	1020	1048	1078	1084	635
45°	830	837	862	879	879	641
55°	622	625	635	636	631	557
65°	402	395	393	379	371	397
75°	189	186	172	150	145	202
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1329.1	1327.6	1321.3	1327.6	1326.0
5°	1324.4	1322.8	1316.5	1322.8	1321.3
7.5°	1314.9	1313.4	1308.6	1314.9	1314.9
10°	1303.9	1300.7	1297.6	1307.0	1308.6
12.5°	1289.7	1286.5	1286.5	1297.6	1299.2
15°	1270.7	1267.6	1272.3	1286.5	1288.1
17.5°	1248.6	1247.1	1255.0	1272.3	1275.5
20°	1223.4	1221.8	1234.4	1255.0	1259.7
22.5°	1196.5	1196.5	1210.8	1234.4	1240.7
25°	1165.0	1166.6	1183.9	1210.8	1220.2
27.5°	1131.8	1135.0	1155.5	1185.5	1193.4
30°	1095.5	1100.3	1123.9	1152.3	1160.2
32.5°	1056.1	1060.8	1087.6	1117.6	1125.5
35°	1016.6	1019.7	1048.2	1078.2	1084.5
37.5°	972.4	977.1	1007.1	1034.0	1040.3
40°	928.2	932.9	961.3	986.6	991.3
42.5°	879.3	885.6	914.0	934.5	937.7
45°	830.3	836.6	861.9	879.3	879.3
47.5°	781.4	784.5	806.6	824.0	822.4
50°	734.0	732.5	753.0	760.9	760.9
52.5°	675.6	680.4	694.6	699.3	694.6
55°	622.0	625.1	634.6	636.2	631.4
57.5°	569.9	568.3	576.2	571.4	565.1
60°	513.0	513.0	513.0	508.3	498.8
62.5°	457.8	454.6	453.0	442.0	437.3
65°	402.5	394.6	393.1	378.9	371.0
67.5°	344.1	341.0	333.1	318.9	304.7
70°	288.9	285.7	276.2	258.9	249.4
72.5°	238.4	235.2	222.6	202.1	189.4
75°	189.4	186.3	172.1	150.0	145.2
77.5°	143.6	142.1	127.9	116.8	115.2
80°	104.2	102.6	90.0	90.0	88.4
82.5°	66.3	66.3	63.1	64.7	66.3
85°	34.7	37.9	41.0	42.6	44.2
87.5°	11.0	17.4	20.5	22.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)