

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: P297782

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297782
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-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592.0 lumens
Efficiency: N/A
Efficacy: 87.4 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

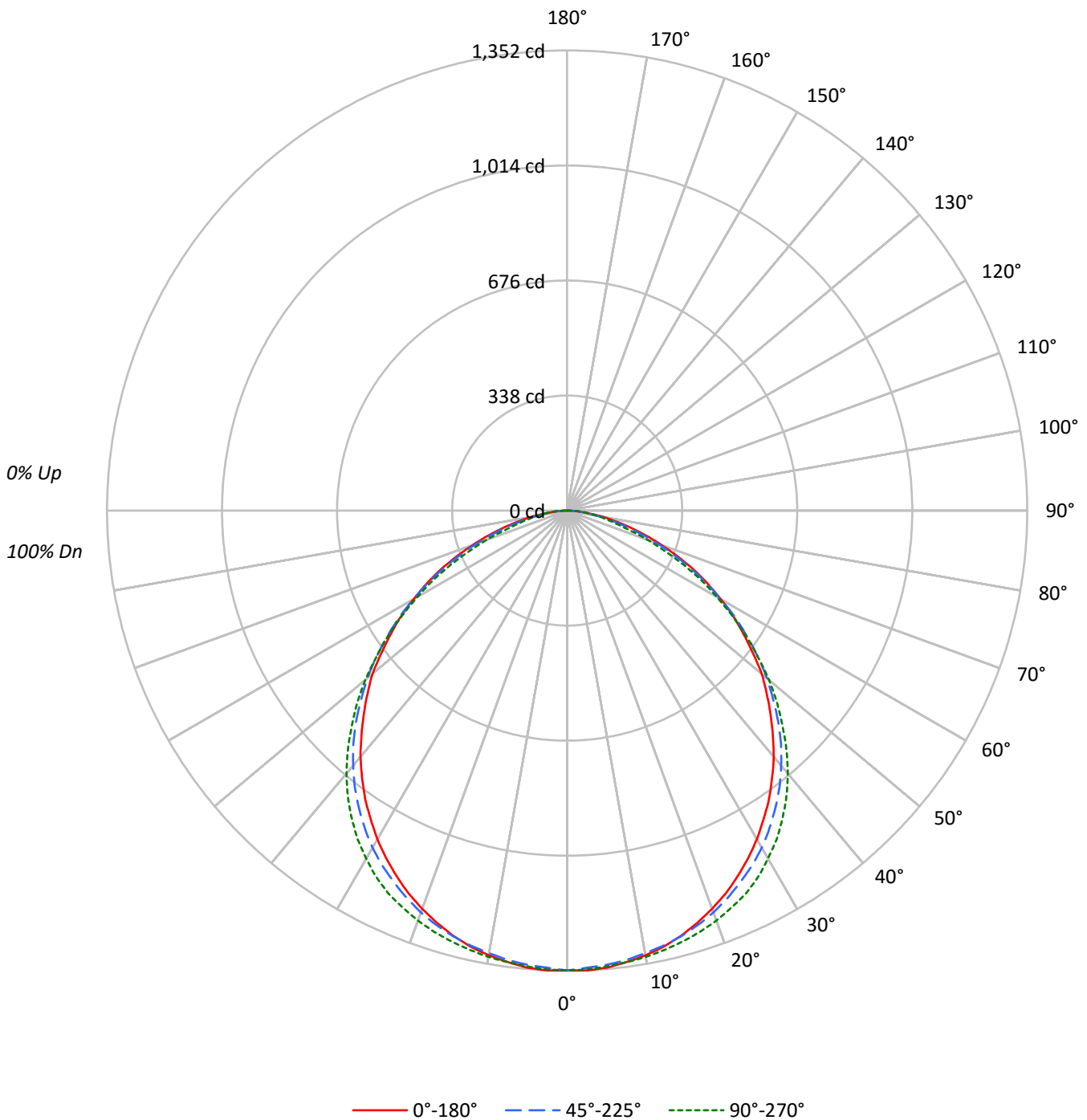
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3635	3635	3635
5°	3640	3619	3632
10°	3625	3608	3639
15°	3602	3607	3651
20°	3565	3597	3671
25°	3520	3577	3687
30°	3464	3554	3668
35°	3398	3504	3625
40°	3318	3436	3543
45°	3215	3338	3405
50°	3127	3208	3241
55°	2969	3029	3014
60°	2809	2809	2732
65°	2608	2547	2404
70°	2312	2212	1997
75°	2005	1821	1537
80°	1643	1420	1395
85°	1090	1291	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.6
10°-20°	366.6	10.2
20°-30°	557.2	15.5
30°-40°	667.1	18.6
40°-50°	672.9	18.7
50°-60°	573.2	16.0
60°-70°	391.9	10.9
70°-80°	187.7	5.2
80°-90°	47.5	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°	1051.6	29.3
0°-40°	1718.7	47.8
0°-60°	2964.8	82.5
0°-90°	3592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1348	1346	1340	1346	1344	128
15°	1293	1290	1295	1309	1311	365
25°	1185	1187	1205	1232	1242	546
35°	1034	1038	1067	1097	1104	646
45°	845	851	877	895	895	652
55°	633	636	646	647	642	567
65°	410	402	400	386	378	404
75°	193	190	175	153	148	206
85°	35	39	42	43	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.9	1350.9	1350.9	1350.9	1350.9
2.5°	1352.5	1350.9	1344.5	1350.9	1349.3
5°	1347.7	1346.1	1339.6	1346.1	1344.5
7.5°	1338.0	1336.4	1331.6	1338.0	1338.0
10°	1326.8	1323.6	1320.4	1330.0	1331.6
12.5°	1312.3	1309.1	1309.1	1320.4	1322.0
15°	1293.1	1289.8	1294.7	1309.1	1310.7
17.5°	1270.6	1269.0	1277.0	1294.7	1297.9
20°	1244.9	1243.3	1256.1	1277.0	1281.8
22.5°	1217.6	1217.6	1232.0	1256.1	1262.5
25°	1185.4	1187.0	1204.7	1232.0	1241.7
27.5°	1151.7	1154.9	1175.8	1206.3	1214.4
30°	1114.8	1119.6	1143.7	1172.6	1180.6
32.5°	1074.6	1079.4	1106.7	1137.2	1145.3
35°	1034.4	1037.7	1066.6	1097.1	1103.5
37.5°	989.5	994.3	1024.8	1052.1	1058.5
40°	944.5	949.3	978.2	1003.9	1008.7
42.5°	894.7	901.1	930.0	950.9	954.1
45°	844.9	851.3	877.0	894.7	894.7
47.5°	795.1	798.3	820.8	838.5	836.9
50°	746.9	745.3	766.2	774.2	774.2
52.5°	687.5	692.3	706.8	711.6	706.8
55°	632.9	636.1	645.7	647.3	642.5
57.5°	579.9	578.3	586.3	581.5	575.0
60°	522.0	522.0	522.0	517.2	507.6
62.5°	465.8	462.6	461.0	449.8	444.9
65°	409.6	401.6	400.0	385.5	377.5
67.5°	350.2	347.0	338.9	324.5	310.0
70°	293.9	290.7	281.1	263.4	253.8
72.5°	242.5	239.3	226.5	205.6	192.8
75°	192.8	189.5	175.1	152.6	147.8
77.5°	146.2	144.6	130.1	118.9	117.3
80°	106.0	104.4	91.6	91.6	90.0
82.5°	67.5	67.5	64.3	65.9	67.5
85°	35.3	38.6	41.8	43.4	45.0
87.5°	11.2	17.7	20.9	22.5	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)