

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: P297920

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L93050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3448.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

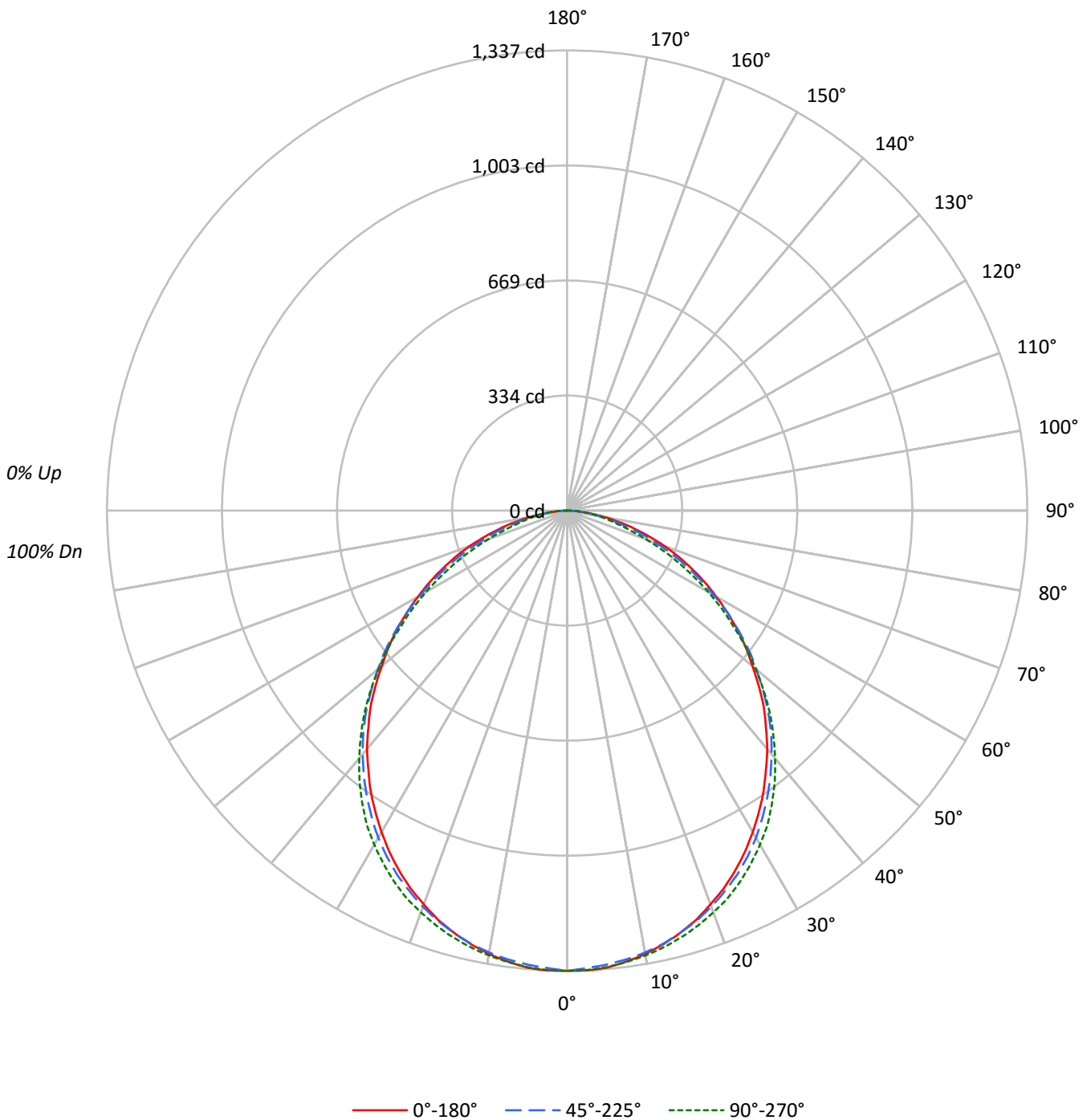
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3599	3599	3599
5°	3601	3577	3597
10°	3574	3562	3586
15°	3538	3538	3575
20°	3487	3507	3558
25°	3428	3467	3532
30°	3352	3411	3483
35°	3270	3332	3409
40°	3178	3245	3301
45°	3076	3143	3170
50°	2943	3004	2992
55°	2832	2852	2777
60°	2690	2651	2549
65°	2541	2438	2271
70°	2357	2162	1921
75°	2097	1854	1580
80°	1743	1517	1472
85°	1263	1352	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	3.7
10°-20°	359.5	10.4
20°-30°	538.8	15.6
30°-40°	634.8	18.4
40°-50°	633.2	18.4
50°-60°	538.6	15.6
60°-70°	375.9	10.9
70°-80°	191.1	5.5
80°-90°	49.9	1.4
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°	1024.6	29.7
0°-40°	1659.4	48.1
0°-60°	2831.1	82.1
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1333	1330	1324	1332	1332	126
15°	1270	1270	1270	1282	1283	358
25°	1155	1156	1168	1185	1190	531
35°	995	997	1014	1035	1038	622
45°	808	811	826	832	833	622
55°	604	604	608	599	592	539
65°	399	393	383	362	357	396
75°	202	194	178	156	152	214
85°	41	42	44	44	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1337.4	1335.9	1330.1	1335.9	1335.9
5°	1333.0	1330.1	1324.2	1331.5	1331.5
7.5°	1321.3	1319.8	1315.4	1322.7	1322.7
10°	1308.1	1306.7	1303.7	1312.5	1312.5
12.5°	1290.6	1290.6	1289.1	1297.9	1299.4
15°	1270.1	1270.1	1270.1	1281.8	1283.3
17.5°	1246.7	1245.3	1249.7	1262.8	1264.3
20°	1217.5	1219.0	1224.8	1239.4	1242.4
22.5°	1188.3	1189.7	1197.0	1214.6	1219.0
25°	1154.7	1156.1	1167.8	1185.4	1189.7
27.5°	1118.1	1121.0	1134.2	1153.2	1156.1
30°	1078.7	1081.6	1097.7	1116.7	1121.0
32.5°	1037.7	1042.1	1056.7	1077.2	1083.0
35°	995.3	996.8	1014.3	1034.8	1037.7
37.5°	948.6	953.0	970.5	988.0	991.0
40°	904.7	907.7	923.7	938.3	939.8
42.5°	855.0	859.4	877.0	887.2	887.2
45°	808.3	811.2	825.8	831.6	833.1
47.5°	755.6	758.6	771.7	774.6	774.6
50°	703.0	710.3	717.6	717.6	714.7
52.5°	654.8	656.3	665.0	659.2	656.3
55°	603.6	603.6	608.0	599.3	591.9
57.5°	552.5	552.5	552.5	540.8	534.9
60°	499.9	498.4	492.6	477.9	473.6
62.5°	450.2	445.8	437.0	422.4	413.6
65°	399.0	393.2	382.9	362.5	356.6
67.5°	350.8	340.6	328.9	309.9	299.6
70°	299.6	290.9	274.8	252.9	244.1
72.5°	249.9	241.2	228.0	206.1	192.9
75°	201.7	194.4	178.3	156.4	152.0
77.5°	154.9	150.5	134.5	124.2	122.8
80°	112.5	111.1	97.9	95.0	95.0
82.5°	74.5	73.1	68.7	68.7	67.2
85°	40.9	42.4	43.8	43.8	43.8
87.5°	14.6	17.5	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)