

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: P297709

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297709
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-40L83050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

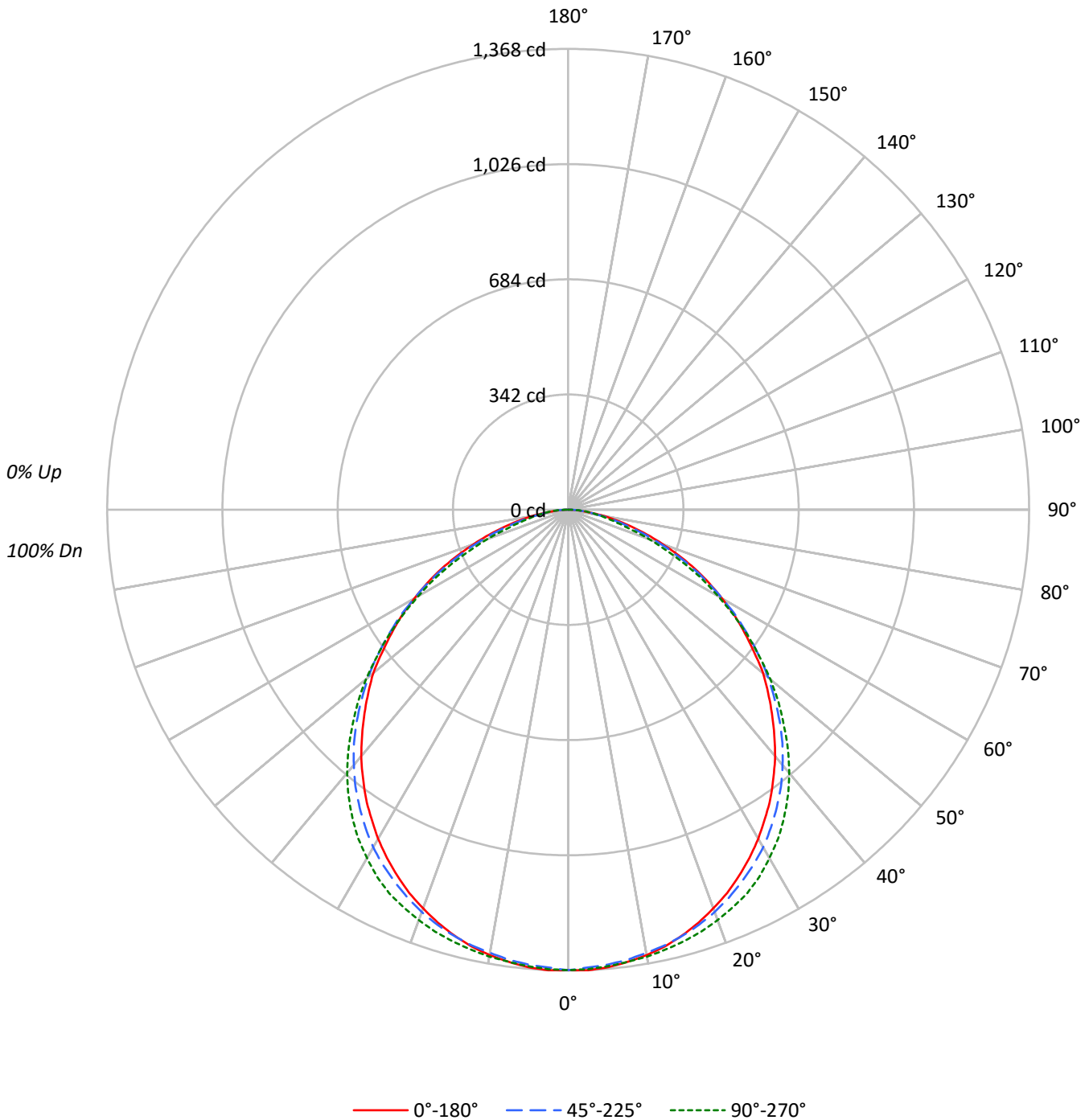
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3678	3678	3678
5°	3683	3661	3674
10°	3668	3650	3681
15°	3645	3649	3694
20°	3607	3639	3714
25°	3561	3619	3730
30°	3504	3595	3711
35°	3438	3545	3667
40°	3357	3477	3585
45°	3253	3377	3445
50°	3164	3245	3279
55°	3004	3065	3050
60°	2842	2842	2764
65°	2639	2576	2432
70°	2340	2238	2020
75°	2027	1841	1554
80°	1663	1435	1410
85°	1105	1306	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.6
10°-20°	370.9	10.2
20°-30°	563.7	15.5
30°-40°	674.9	18.6
40°-50°	680.8	18.7
50°-60°	579.9	16.0
60°-70°	396.5	10.9
70°-80°	189.9	5.2
80°-90°	48.1	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°	1063.9	29.3
0°-40°	1738.8	47.8
0°-60°	2999.5	82.5
0°-90°	3634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1363	1362	1355	1362	1360	129
15°	1308	1305	1310	1324	1326	369
25°	1199	1201	1219	1246	1256	552
35°	1046	1050	1079	1110	1116	654
45°	855	861	887	905	905	660
55°	640	644	653	655	650	573
65°	414	406	405	390	382	409
75°	195	192	177	154	150	208
85°	36	39	42	44	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.7	1366.7	1366.7	1366.7	1366.7
2.5°	1368.3	1366.7	1360.2	1366.7	1365.1
5°	1363.4	1361.8	1355.3	1361.8	1360.2
7.5°	1353.7	1352.1	1347.2	1353.7	1353.7
10°	1342.3	1339.1	1335.8	1345.6	1347.2
12.5°	1327.7	1324.4	1324.4	1335.8	1337.4
15°	1308.2	1304.9	1309.8	1324.4	1326.1
17.5°	1285.4	1283.8	1291.9	1309.8	1313.1
20°	1259.4	1257.8	1270.8	1291.9	1296.8
22.5°	1231.8	1231.8	1246.4	1270.8	1277.3
25°	1199.3	1200.9	1218.8	1246.4	1256.2
27.5°	1165.2	1168.4	1189.5	1220.4	1228.5
30°	1127.8	1132.7	1157.0	1186.3	1194.4
32.5°	1087.2	1092.0	1119.7	1150.5	1158.7
35°	1046.5	1049.8	1079.0	1109.9	1116.4
37.5°	1001.0	1005.9	1036.8	1064.4	1070.9
40°	955.5	960.4	989.7	1015.7	1020.5
42.5°	905.2	911.7	940.9	962.0	965.3
45°	854.8	861.3	887.3	905.2	905.2
47.5°	804.4	807.7	830.4	848.3	846.7
50°	755.7	754.0	775.2	783.3	783.3
52.5°	695.5	700.4	715.0	719.9	715.0
55°	640.3	643.5	653.3	654.9	650.0
57.5°	586.6	585.0	593.1	588.3	581.8
60°	528.1	528.1	528.1	523.3	513.5
62.5°	471.3	468.0	466.4	455.0	450.1
65°	414.4	406.3	404.6	390.0	381.9
67.5°	354.3	351.0	342.9	328.3	313.6
70°	297.4	294.1	284.4	266.5	256.8
72.5°	245.4	242.1	229.1	208.0	195.0
75°	195.0	191.8	177.1	154.4	149.5
77.5°	147.9	146.3	131.6	120.3	118.6
80°	107.3	105.6	92.6	92.6	91.0
82.5°	68.3	68.3	65.0	66.6	68.3
85°	35.8	39.0	42.3	43.9	45.5
87.5°	11.4	17.9	21.1	22.8	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)