

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: P297713

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297713
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-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4076.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

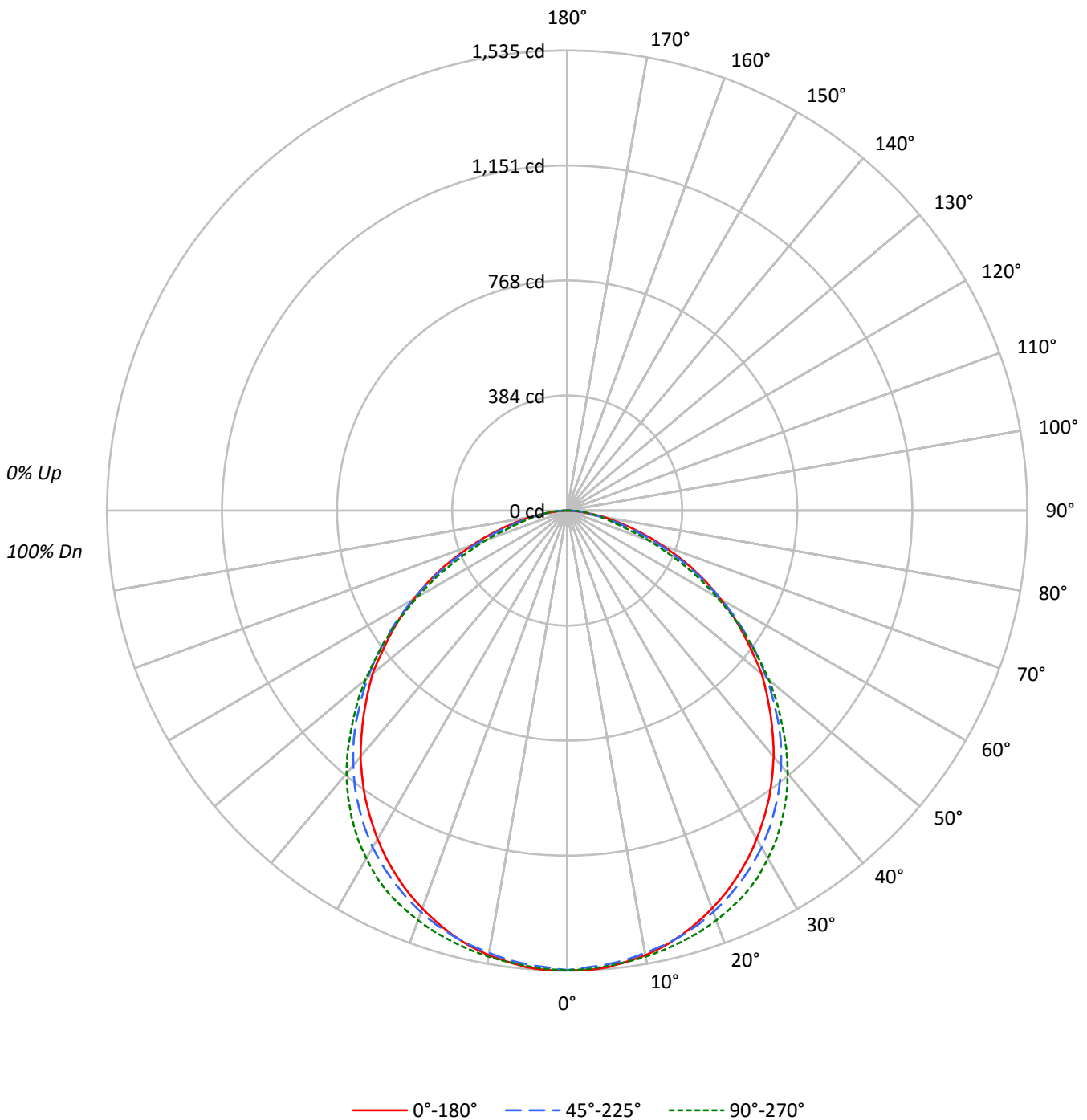
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4125	4125	4125
5°	4131	4106	4121
10°	4114	4094	4129
15°	4088	4093	4143
20°	4045	4082	4165
25°	3994	4059	4184
30°	3931	4033	4163
35°	3856	3976	4114
40°	3765	3899	4021
45°	3649	3787	3864
50°	3548	3640	3678
55°	3369	3438	3421
60°	3188	3188	3100
65°	2960	2890	2727
70°	2625	2510	2266
75°	2274	2066	1744
80°	1864	1610	1582
85°	1238	1463	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	3.6
10°-20°	416.0	10.2
20°-30°	632.3	15.5
30°-40°	757.0	18.6
40°-50°	763.6	18.7
50°-60°	650.4	16.0
60°-70°	444.8	10.9
70°-80°	213.0	5.2
80°-90°	53.9	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°	1193.3	29.3
0°-40°	1950.3	47.8
0°-60°	3364.4	82.5
0°-90°	4076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1529	1527	1520	1527	1526	145
15°	1467	1464	1469	1486	1487	414
25°	1345	1347	1367	1398	1409	620
35°	1174	1178	1210	1245	1252	733
45°	959	966	995	1015	1015	740
55°	718	722	733	735	729	643
65°	465	456	454	438	428	458
75°	219	215	199	173	168	234
85°	40	44	47	49	51	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.9	1532.9	1532.9	1532.9	1532.9
2.5°	1534.7	1532.9	1525.6	1532.9	1531.1
5°	1529.3	1527.4	1520.1	1527.4	1525.6
7.5°	1518.3	1516.5	1511.0	1518.3	1518.3
10°	1505.6	1501.9	1498.3	1509.2	1511.0
12.5°	1489.2	1485.5	1485.5	1498.3	1500.1
15°	1467.3	1463.6	1469.1	1485.5	1487.3
17.5°	1441.8	1439.9	1449.1	1469.1	1472.8
20°	1412.6	1410.8	1425.4	1449.1	1454.5
22.5°	1381.6	1381.6	1398.0	1425.4	1432.7
25°	1345.2	1347.0	1367.0	1398.0	1409.0
27.5°	1306.9	1310.5	1334.2	1368.9	1378.0
30°	1265.0	1270.4	1297.8	1330.6	1339.7
32.5°	1219.4	1224.9	1255.9	1290.5	1299.6
35°	1173.8	1177.5	1210.3	1244.9	1252.2
37.5°	1122.8	1128.3	1162.9	1193.9	1201.2
40°	1071.8	1077.2	1110.0	1139.2	1144.7
42.5°	1015.3	1022.5	1055.4	1079.1	1082.7
45°	958.8	966.0	995.2	1015.3	1015.3
47.5°	902.2	905.9	931.4	951.5	949.6
50°	847.6	845.7	869.4	878.6	878.6
52.5°	780.1	785.6	802.0	807.5	802.0
55°	718.2	721.8	732.7	734.6	729.1
57.5°	658.0	656.2	665.3	659.8	652.5
60°	592.4	592.4	592.4	586.9	576.0
62.5°	528.6	524.9	523.1	510.4	504.9
65°	464.8	455.7	453.9	437.5	428.3
67.5°	397.4	393.7	384.6	368.2	351.8
70°	333.6	329.9	319.0	298.9	288.0
72.5°	275.2	271.6	257.0	233.3	218.7
75°	218.7	215.1	198.7	173.2	167.7
77.5°	165.9	164.0	147.6	134.9	133.1
80°	120.3	118.5	103.9	103.9	102.1
82.5°	76.6	76.6	72.9	74.7	76.6
85°	40.1	43.7	47.4	49.2	51.0
87.5°	12.8	20.0	23.7	25.5	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)