

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: P297711

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297711
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4038.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

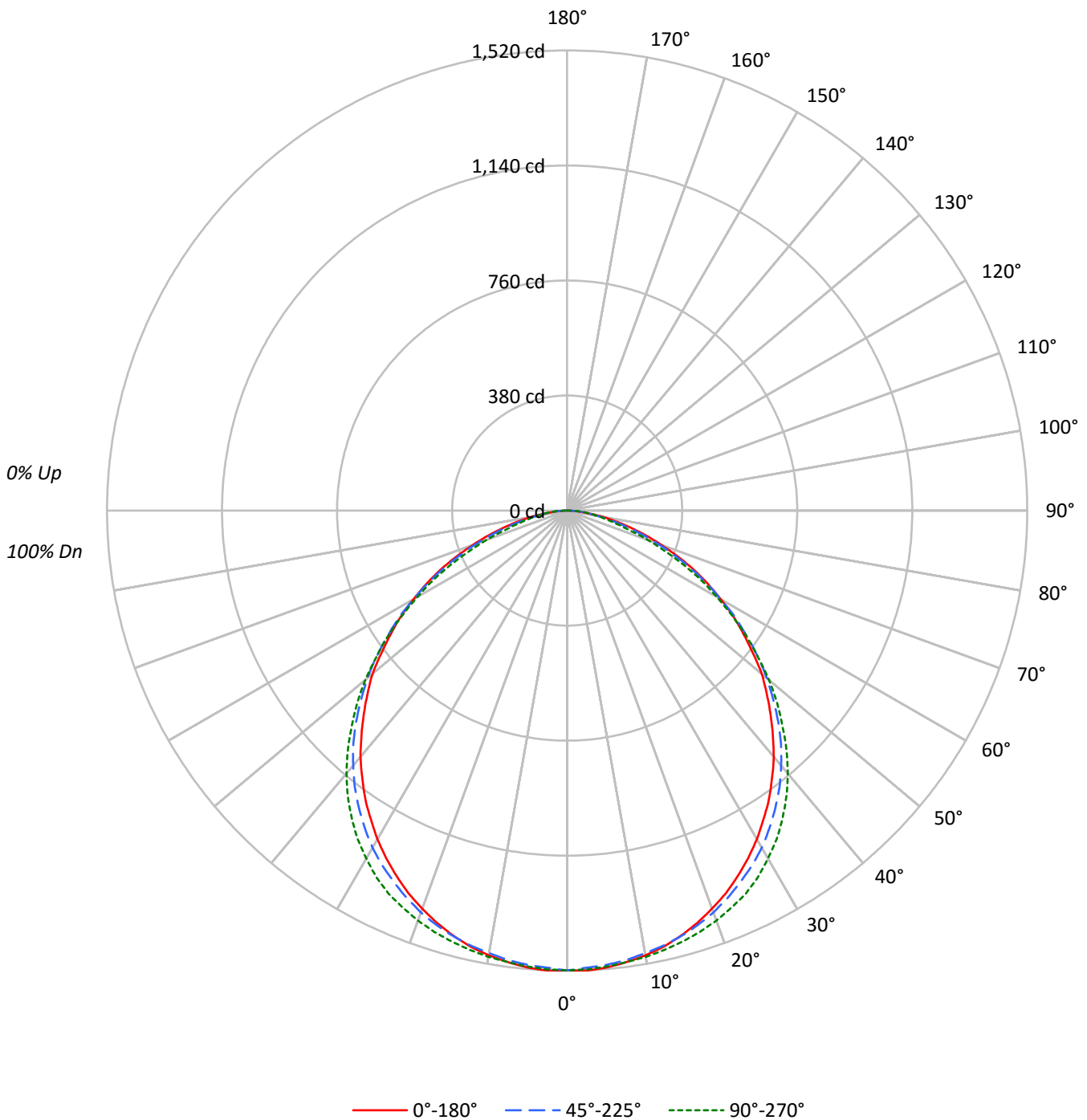
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4087	4087	4087
5°	4092	4068	4083
10°	4076	4056	4090
15°	4050	4055	4105
20°	4007	4044	4127
25°	3957	4021	4144
30°	3894	3995	4124
35°	3820	3939	4075
40°	3730	3863	3984
45°	3615	3752	3828
50°	3515	3606	3644
55°	3338	3406	3389
60°	3159	3159	3071
65°	2932	2863	2702
70°	2600	2486	2245
75°	2253	2046	1727
80°	1847	1595	1567
85°	1226	1448	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.6
10°-20°	412.2	10.2
20°-30°	626.4	15.5
30°-40°	750.0	18.6
40°-50°	756.5	18.7
50°-60°	644.4	16.0
60°-70°	440.6	10.9
70°-80°	211.0	5.2
80°-90°	53.4	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°	1182.1	29.3
0°-40°	1932.1	47.8
0°-60°	3333.0	82.5
0°-90°	4038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1515	1513	1506	1513	1511	144
15°	1454	1450	1455	1472	1474	410
25°	1333	1334	1354	1385	1396	614
35°	1163	1166	1199	1233	1240	726
45°	950	957	986	1006	1006	733
55°	712	715	726	728	722	637
65°	460	451	450	433	424	454
75°	217	213	197	172	166	232
85°	40	43	47	49	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.6	1518.6	1518.6	1518.6	1518.6
2.5°	1520.4	1518.6	1511.4	1518.6	1516.8
5°	1515.0	1513.2	1506.0	1513.2	1511.4
7.5°	1504.2	1502.4	1496.9	1504.2	1504.2
10°	1491.5	1487.9	1484.3	1495.1	1496.9
12.5°	1475.3	1471.7	1471.7	1484.3	1486.1
15°	1453.6	1450.0	1455.4	1471.7	1473.5
17.5°	1428.3	1426.5	1435.6	1455.4	1459.0
20°	1399.4	1397.6	1412.1	1435.6	1441.0
22.5°	1368.7	1368.7	1385.0	1412.1	1419.3
25°	1332.6	1334.4	1354.3	1385.0	1395.8
27.5°	1294.7	1298.3	1321.8	1356.1	1365.1
30°	1253.2	1258.6	1285.7	1318.2	1327.2
32.5°	1208.0	1213.4	1244.1	1278.5	1287.5
35°	1162.9	1166.5	1199.0	1233.3	1240.5
37.5°	1112.3	1117.7	1152.1	1182.8	1190.0
40°	1061.8	1067.2	1099.7	1128.6	1134.0
42.5°	1005.8	1013.0	1045.5	1069.0	1072.6
45°	949.8	957.0	985.9	1005.8	1005.8
47.5°	893.8	897.4	922.7	942.6	940.8
50°	839.7	837.9	861.3	870.4	870.4
52.5°	772.9	778.3	794.5	799.9	794.5
55°	711.5	715.1	725.9	727.7	722.3
57.5°	651.9	650.1	659.1	653.7	646.5
60°	586.9	586.9	586.9	581.4	570.6
62.5°	523.7	520.0	518.2	505.6	500.2
65°	460.5	451.4	449.6	433.4	424.3
67.5°	393.6	390.0	381.0	364.8	348.5
70°	330.4	326.8	316.0	296.1	285.3
72.5°	272.7	269.1	254.6	231.1	216.7
75°	216.7	213.1	196.8	171.5	166.1
77.5°	164.3	162.5	146.3	133.6	131.8
80°	119.2	117.4	102.9	102.9	101.1
82.5°	75.8	75.8	72.2	74.0	75.8
85°	39.7	43.3	46.9	48.8	50.6
87.5°	12.6	19.9	23.5	25.3	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)