

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: METALUX

Report Number: P229408

Luminaire Tested: **22ALNG-LD5-44-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-44-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

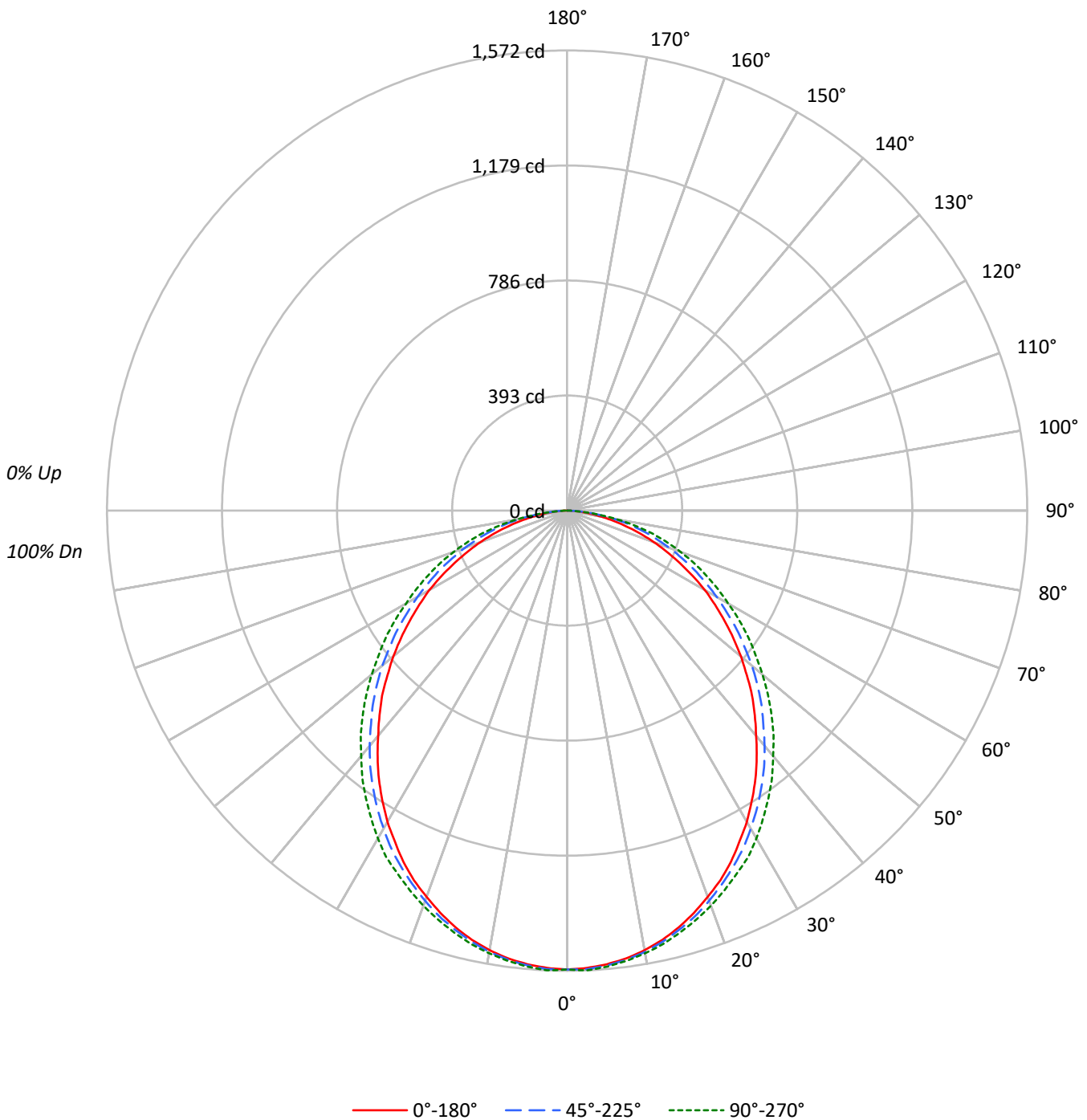
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5022	5022	5022
5°	5001	5014	5028
10°	4959	4979	4992
15°	4886	4913	4947
20°	4785	4834	4897
25°	4679	4744	4838
30°	4540	4639	4783
35°	4383	4519	4688
40°	4199	4387	4576
45°	4048	4251	4474
50°	3860	4105	4340
55°	3662	3948	4223
60°	3479	3781	4070
65°	3215	3634	3976
70°	2955	3474	3858
75°	2587	3298	3702
80°	2154	2986	3176
85°	1657	2109	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.6
10°-20°	417.9	10.3
20°-30°	619.2	15.2
30°-40°	724.1	17.8
40°-50°	723.5	17.7
50°-60°	630.7	15.5
60°-70°	471.7	11.6
70°-80°	274.5	6.7
80°-90°	67.4	1.7
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°	1185.1	29.1
0°-40°	1909.1	46.8
0°-60°	3263.4	80.0
0°-90°	4077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1556	1558	1560	1564	1564	148
15°	1474	1476	1482	1488	1492	415
25°	1324	1328	1342	1361	1369	609
35°	1121	1129	1156	1189	1199	700
45°	894	904	939	974	988	688
55°	656	668	707	740	756	588
65°	424	441	480	510	525	422
75°	209	232	266	287	299	224
85°	45	53	57	55	53	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568.0	1568.0	1568.0	1568.0	1568.0
2.5°	1563.9	1563.9	1568.0	1570.0	1572.1
5°	1555.7	1557.7	1559.8	1563.9	1563.9
7.5°	1543.4	1545.4	1547.5	1551.6	1551.6
10°	1524.9	1527.0	1531.1	1535.2	1535.2
12.5°	1502.4	1504.4	1508.5	1512.6	1516.7
15°	1473.7	1475.8	1481.9	1488.1	1492.1
17.5°	1440.9	1445.0	1453.2	1461.4	1465.5
20°	1404.0	1408.1	1418.4	1432.7	1436.8
22.5°	1367.1	1369.2	1381.5	1397.9	1404.0
25°	1324.1	1328.2	1342.5	1361.0	1369.2
27.5°	1274.9	1281.0	1301.5	1324.1	1336.4
30°	1227.7	1231.8	1254.4	1283.1	1293.3
32.5°	1174.5	1182.7	1207.2	1235.9	1246.2
35°	1121.2	1129.4	1156.0	1188.8	1199.0
37.5°	1063.8	1072.0	1104.8	1137.6	1149.9
40°	1004.3	1016.6	1049.4	1084.3	1094.5
42.5°	949.0	959.2	992.0	1026.9	1043.3
45°	893.7	903.9	938.7	973.6	987.9
47.5°	832.2	842.4	881.4	916.2	930.5
50°	774.8	785.0	824.0	858.8	871.1
52.5°	715.3	727.6	762.5	799.4	811.7
55°	655.9	668.2	707.1	739.9	756.3
57.5°	598.5	612.8	645.6	680.5	696.9
60°	543.2	553.4	590.3	623.1	635.4
62.5°	483.7	496.0	532.9	567.8	580.1
65°	424.3	440.7	479.6	510.4	524.7
67.5°	368.9	385.3	424.3	453.0	469.4
70°	315.6	332.0	371.0	397.6	412.0
72.5°	262.4	282.9	317.7	342.3	354.6
75°	209.1	231.6	266.5	287.0	299.2
77.5°	161.9	184.5	215.2	233.7	237.8
80°	116.8	139.4	161.9	170.1	172.2
82.5°	79.9	96.3	108.6	108.6	112.7
85°	45.1	53.3	57.4	55.3	53.3
87.5°	16.4	18.4	16.4	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)