

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: P229344

Luminaire Tested: **22ALNG-LD5-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36080)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-40-UNV-L830-CD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

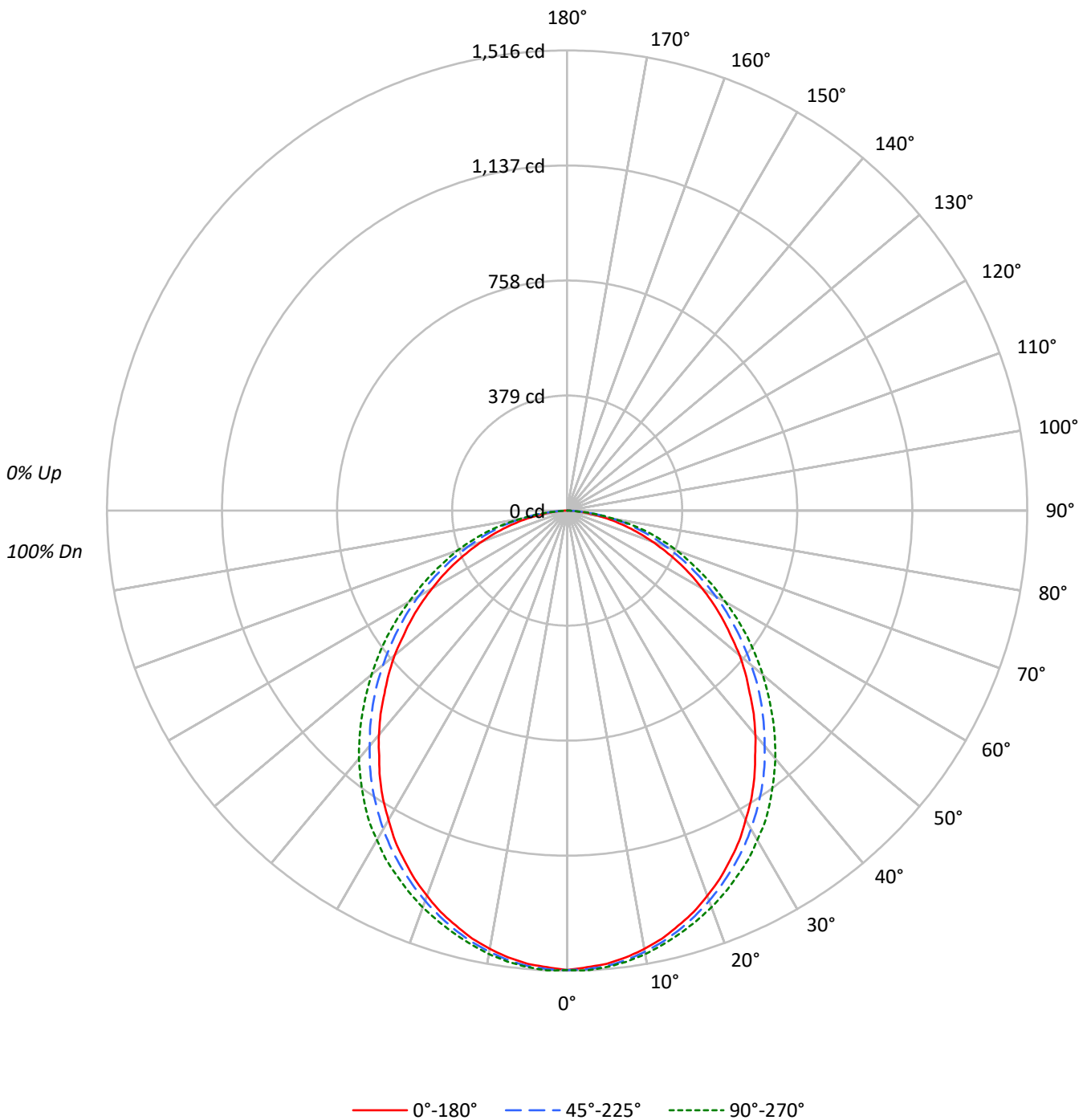
Input Watts (W): 34.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4848	4848	4848
5°	4819	4841	4852
10°	4769	4800	4825
15°	4693	4739	4780
20°	4603	4662	4740
25°	4490	4577	4691
30°	4351	4481	4633
35°	4205	4370	4562
40°	4034	4232	4460
45°	3854	4100	4331
50°	3697	3946	4191
55°	3500	3789	4045
60°	3290	3622	3858
65°	3067	3433	3706
70°	2787	3247	3601
75°	2477	3075	3411
80°	2056	2785	2835
85°	1613	1870	1709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.6
10°-20°	402.9	10.3
20°-30°	597.5	15.3
30°-40°	699.3	17.9
40°-50°	697.6	17.8
50°-60°	604.9	15.5
60°-70°	446.2	11.4
70°-80°	257.2	6.6
80°-90°	62.6	1.6
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°	1143.2	29.2
0°-40°	1842.5	47.1
0°-60°	3145.0	80.4
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1499	1501	1506	1508	1509	142
15°	1416	1419	1430	1440	1442	399
25°	1271	1276	1295	1320	1328	585
35°	1076	1084	1118	1153	1167	671
45°	851	866	905	941	956	658
55°	627	642	679	710	724	560
65°	405	423	453	475	489	401
75°	200	218	248	270	276	213
85°	44	52	51	50	46	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1505.9	1507.6	1512.0	1515.6	1516.4
5°	1498.9	1500.6	1505.9	1508.5	1509.4
7.5°	1484.8	1489.2	1493.6	1498.0	1498.9
10°	1466.4	1470.8	1476.0	1481.3	1483.9
12.5°	1444.4	1446.2	1455.0	1461.1	1463.7
15°	1415.5	1419.0	1429.5	1440.0	1441.8
17.5°	1386.5	1390.9	1400.5	1412.8	1417.2
20°	1350.5	1354.9	1368.0	1383.8	1390.9
22.5°	1313.6	1317.1	1332.9	1352.2	1361.0
25°	1270.6	1275.8	1295.2	1319.7	1327.6
27.5°	1227.5	1231.9	1255.6	1282.9	1294.3
30°	1176.6	1186.3	1211.7	1242.5	1253.0
32.5°	1128.3	1136.2	1165.2	1200.3	1214.4
35°	1075.6	1083.5	1117.8	1152.9	1167.0
37.5°	1017.7	1031.7	1066.9	1103.7	1116.9
40°	965.0	978.2	1012.4	1051.1	1066.9
42.5°	909.7	920.2	959.7	997.5	1012.4
45°	850.9	865.8	905.3	941.3	956.2
47.5°	797.3	811.3	850.0	884.2	898.3
50°	742.0	755.1	792.0	828.9	841.2
52.5°	681.4	698.9	734.9	769.2	782.4
55°	626.9	641.9	678.7	709.5	724.4
57.5°	570.7	585.7	622.6	648.9	663.8
60°	513.7	533.0	565.5	592.7	602.4
62.5°	460.1	473.3	508.4	533.0	545.3
65°	404.8	423.2	453.1	475.0	489.1
67.5°	350.4	370.5	399.5	424.1	433.8
70°	297.7	317.9	346.8	369.7	384.6
72.5°	248.5	267.8	297.7	319.6	328.4
75°	200.2	217.8	248.5	270.4	275.7
77.5°	154.5	173.9	202.8	216.0	217.8
80°	111.5	130.8	151.0	158.1	153.7
82.5°	75.5	88.7	102.7	101.0	102.7
85°	43.9	51.8	50.9	50.1	46.5
87.5°	16.7	18.4	14.0	10.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)