

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: P229345

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229345
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-LD5-44-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: 4276.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

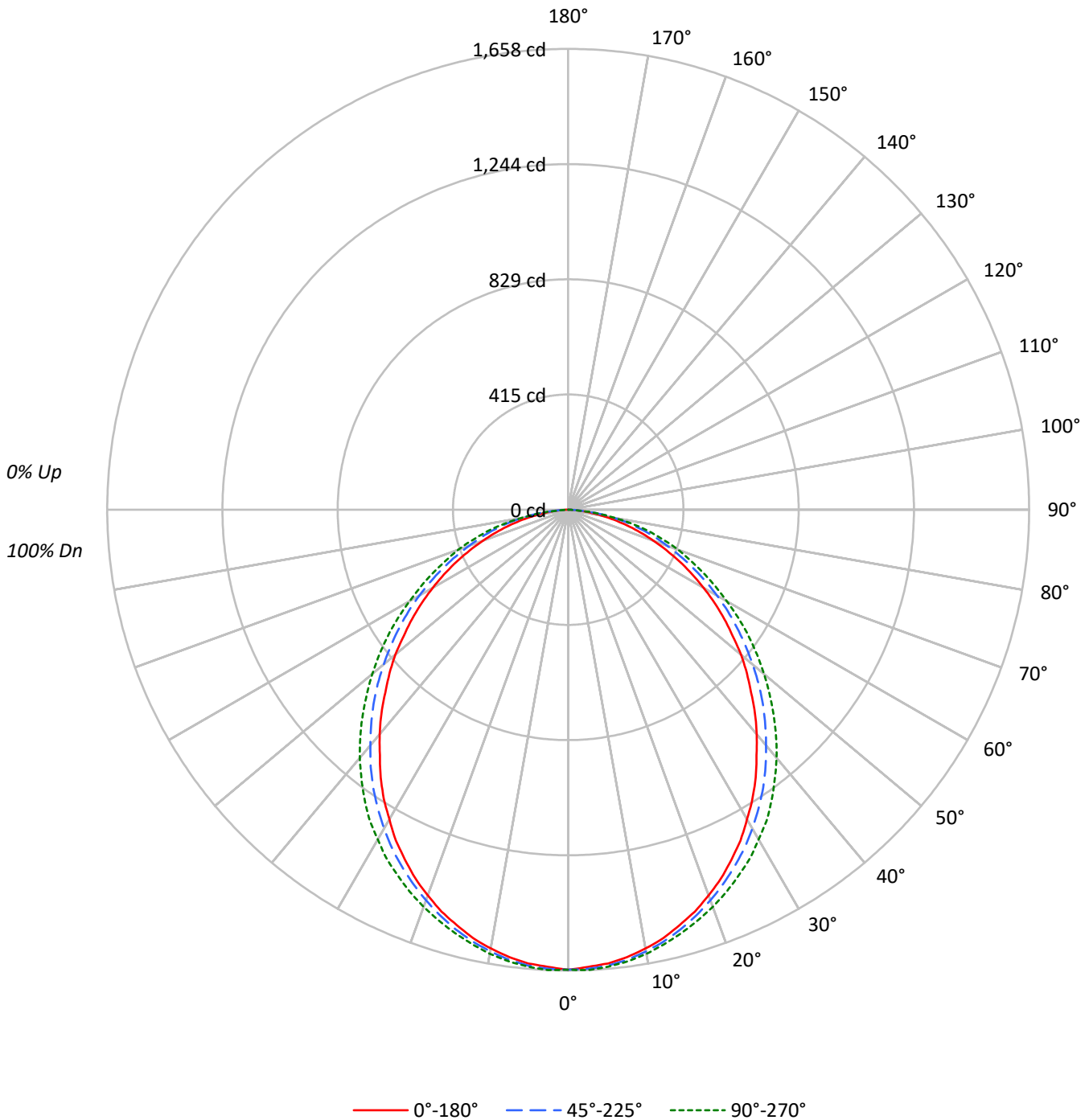
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5300	5300	5300
5°	5268	5293	5305
10°	5213	5248	5276
15°	5131	5182	5226
20°	5032	5097	5183
25°	4908	5004	5129
30°	4757	4899	5066
35°	4598	4778	4988
40°	4411	4627	4876
45°	4213	4483	4735
50°	4042	4314	4582
55°	3827	4143	4422
60°	3597	3960	4218
65°	3354	3754	4052
70°	3047	3551	3937
75°	2709	3362	3729
80°	2248	3045	3098
85°	1764	2047	1870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.6
10°-20°	440.5	10.3
20°-30°	653.3	15.3
30°-40°	764.6	17.9
40°-50°	762.7	17.8
50°-60°	661.4	15.5
60°-70°	487.8	11.4
70°-80°	281.2	6.6
80°-90°	68.4	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°	1249.9	29.2
0°-40°	2014.5	47.1
0°-60°	3438.6	80.4
0°-90°	4276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1639	1641	1646	1649	1650	155
15°	1548	1551	1563	1574	1576	436
25°	1389	1395	1416	1443	1452	640
35°	1176	1185	1222	1260	1276	734
45°	930	947	990	1029	1046	720
55°	686	702	742	776	792	613
65°	443	463	495	519	535	438
75°	219	238	272	296	301	233
85°	48	57	56	55	51	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1655.1	1655.1	1655.1	1655.1	1655.1
2.5°	1646.4	1648.4	1653.2	1657.0	1658.0
5°	1638.8	1640.7	1646.4	1649.3	1650.3
7.5°	1623.4	1628.2	1633.0	1637.8	1638.8
10°	1603.2	1608.0	1613.8	1619.6	1622.4
12.5°	1579.2	1581.2	1590.8	1597.5	1600.4
15°	1547.5	1551.4	1562.9	1574.4	1576.3
17.5°	1515.9	1520.7	1531.2	1544.7	1549.5
20°	1476.5	1481.3	1495.7	1513.0	1520.7
22.5°	1436.2	1440.0	1457.3	1478.4	1488.0
25°	1389.1	1394.9	1416.0	1442.9	1451.5
27.5°	1342.1	1346.9	1372.8	1402.6	1415.1
30°	1286.4	1297.0	1324.8	1358.4	1369.9
32.5°	1233.6	1242.3	1273.9	1312.3	1327.7
35°	1176.0	1184.7	1222.1	1260.5	1275.9
37.5°	1112.7	1128.0	1166.4	1206.7	1221.1
40°	1055.1	1069.5	1106.9	1149.1	1166.4
42.5°	994.6	1006.1	1049.3	1090.6	1106.9
45°	930.3	946.6	989.8	1029.1	1045.5
47.5°	871.7	887.1	929.3	966.7	982.1
50°	811.2	825.6	865.9	906.3	919.7
52.5°	745.0	764.2	803.5	841.0	855.4
55°	685.5	701.8	742.1	775.7	792.0
57.5°	624.0	640.3	680.7	709.5	725.8
60°	561.6	582.7	618.3	648.0	658.6
62.5°	503.0	517.4	555.9	582.7	596.2
65°	442.6	462.7	495.4	519.4	534.7
67.5°	383.0	405.1	436.8	463.7	474.2
70°	325.4	347.5	379.2	404.2	420.5
72.5°	271.7	292.8	325.4	349.4	359.0
75°	218.9	238.1	271.7	295.7	301.4
77.5°	169.0	190.1	221.8	236.2	238.1
80°	121.9	143.0	165.1	172.8	168.0
82.5°	82.6	97.0	112.3	110.4	112.3
85°	48.0	56.6	55.7	54.7	50.9
87.5°	18.2	20.2	15.4	11.5	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)