

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: P229356

Luminaire Tested: **22ALNG-LD5-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229356
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-L840-CD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

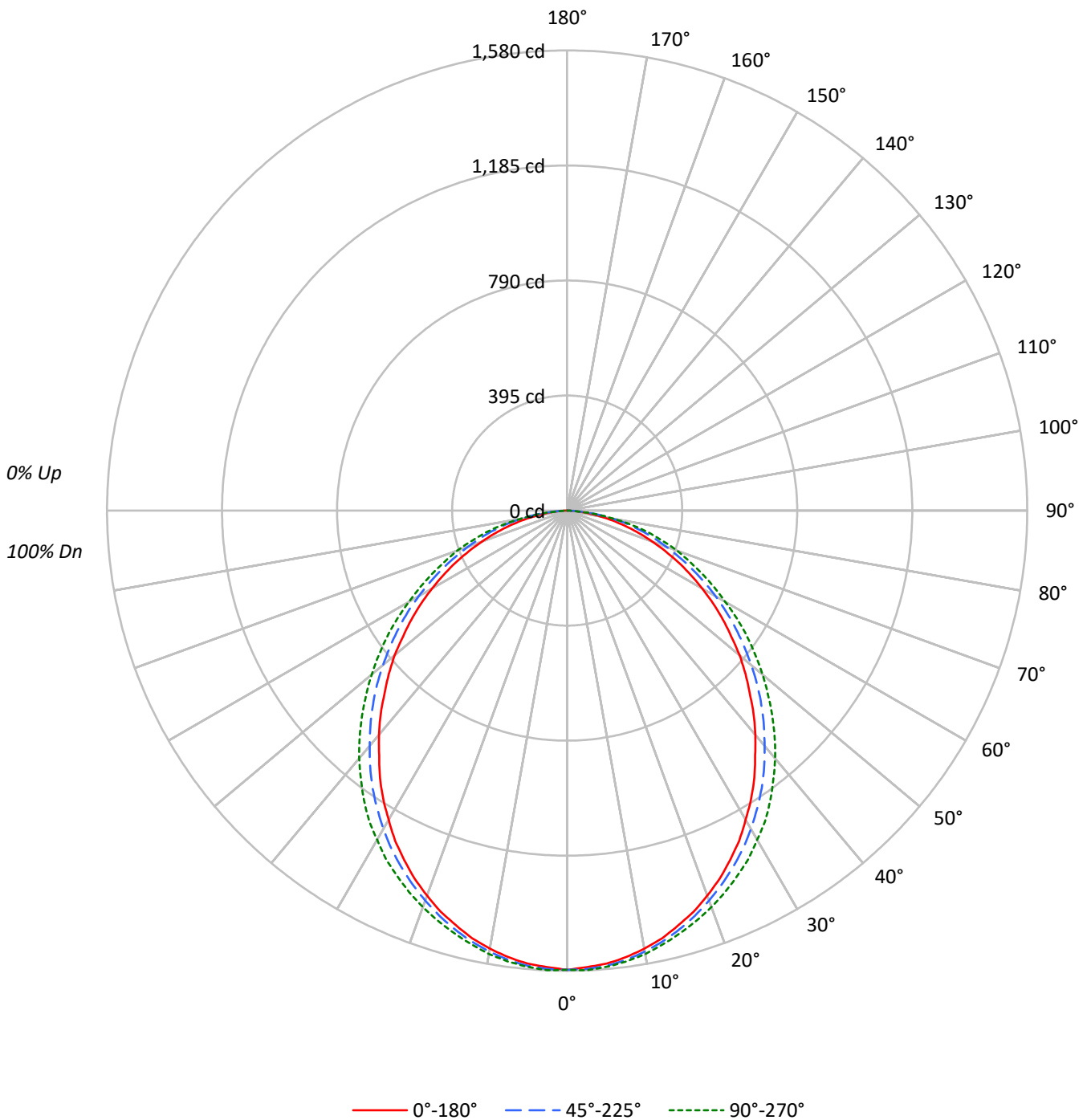
Input Watts (W): 34.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5050	5050	5050
5°	5019	5043	5055
10°	4967	5000	5027
15°	4888	4937	4979
20°	4794	4857	4938
25°	4677	4767	4887
30°	4533	4668	4827
35°	4381	4552	4752
40°	4202	4409	4646
45°	4014	4271	4511
50°	3851	4110	4366
55°	3646	3947	4213
60°	3427	3773	4019
65°	3196	3577	3861
70°	2904	3383	3751
75°	2580	3203	3554
80°	2143	2901	2953
85°	1679	1951	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	3.6
10°-20°	419.7	10.3
20°-30°	622.4	15.3
30°-40°	728.5	17.9
40°-50°	726.6	17.8
50°-60°	630.1	15.5
60°-70°	464.8	11.4
70°-80°	267.9	6.6
80°-90°	65.2	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°	1190.8	29.2
0°-40°	1919.3	47.1
0°-60°	3276.1	80.4
0°-90°	4074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1561	1563	1569	1571	1572	148
15°	1474	1478	1489	1500	1502	416
25°	1324	1329	1349	1375	1383	609
35°	1120	1129	1164	1201	1216	699
45°	886	902	943	980	996	686
55°	653	669	707	739	755	584
65°	422	441	472	495	510	418
75°	208	227	259	282	287	222
85°	46	54	53	52	48	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.9	1576.9	1576.9	1576.9	1576.9
2.5°	1568.7	1570.5	1575.1	1578.7	1579.6
5°	1561.3	1563.2	1568.7	1571.4	1572.3
7.5°	1546.7	1551.3	1555.8	1560.4	1561.3
10°	1527.5	1532.1	1537.6	1543.0	1545.8
12.5°	1504.6	1506.5	1515.6	1522.0	1524.7
15°	1474.4	1478.1	1489.1	1500.1	1501.9
17.5°	1444.3	1448.8	1458.9	1471.7	1476.3
20°	1406.8	1411.3	1425.1	1441.5	1448.8
22.5°	1368.3	1372.0	1388.5	1408.6	1417.7
25°	1323.5	1329.0	1349.1	1374.7	1383.0
27.5°	1278.7	1283.3	1308.0	1336.3	1348.2
30°	1225.7	1235.7	1262.2	1294.3	1305.2
32.5°	1175.3	1183.6	1213.8	1250.3	1265.0
35°	1120.5	1128.7	1164.4	1201.0	1215.6
37.5°	1060.1	1074.7	1111.3	1149.7	1163.5
40°	1005.2	1018.9	1054.6	1094.9	1111.3
42.5°	947.6	958.6	999.7	1039.1	1054.6
45°	886.3	901.9	943.0	980.5	996.1
47.5°	830.5	845.2	885.4	921.1	935.7
50°	772.9	786.6	825.0	863.4	876.3
52.5°	709.8	728.1	765.6	801.2	815.0
55°	653.1	668.6	707.0	739.1	754.6
57.5°	594.5	610.1	648.5	675.9	691.5
60°	535.1	555.2	589.0	617.4	627.5
62.5°	479.3	493.0	529.6	555.2	568.0
65°	421.7	440.9	472.0	494.8	509.5
67.5°	365.0	386.0	416.2	441.8	451.8
70°	310.1	331.1	361.3	385.1	400.6
72.5°	258.9	279.0	310.1	332.9	342.1
75°	208.5	226.8	258.9	281.7	287.2
77.5°	161.0	181.1	211.3	225.0	226.8
80°	116.2	136.3	157.3	164.6	160.1
82.5°	78.7	92.4	107.0	105.2	107.0
85°	45.7	54.0	53.1	52.1	48.5
87.5°	17.4	19.2	14.6	11.0	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)