

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: P229420

Luminaire Tested: **22ALNG-LD5-44-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229420
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-L840-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

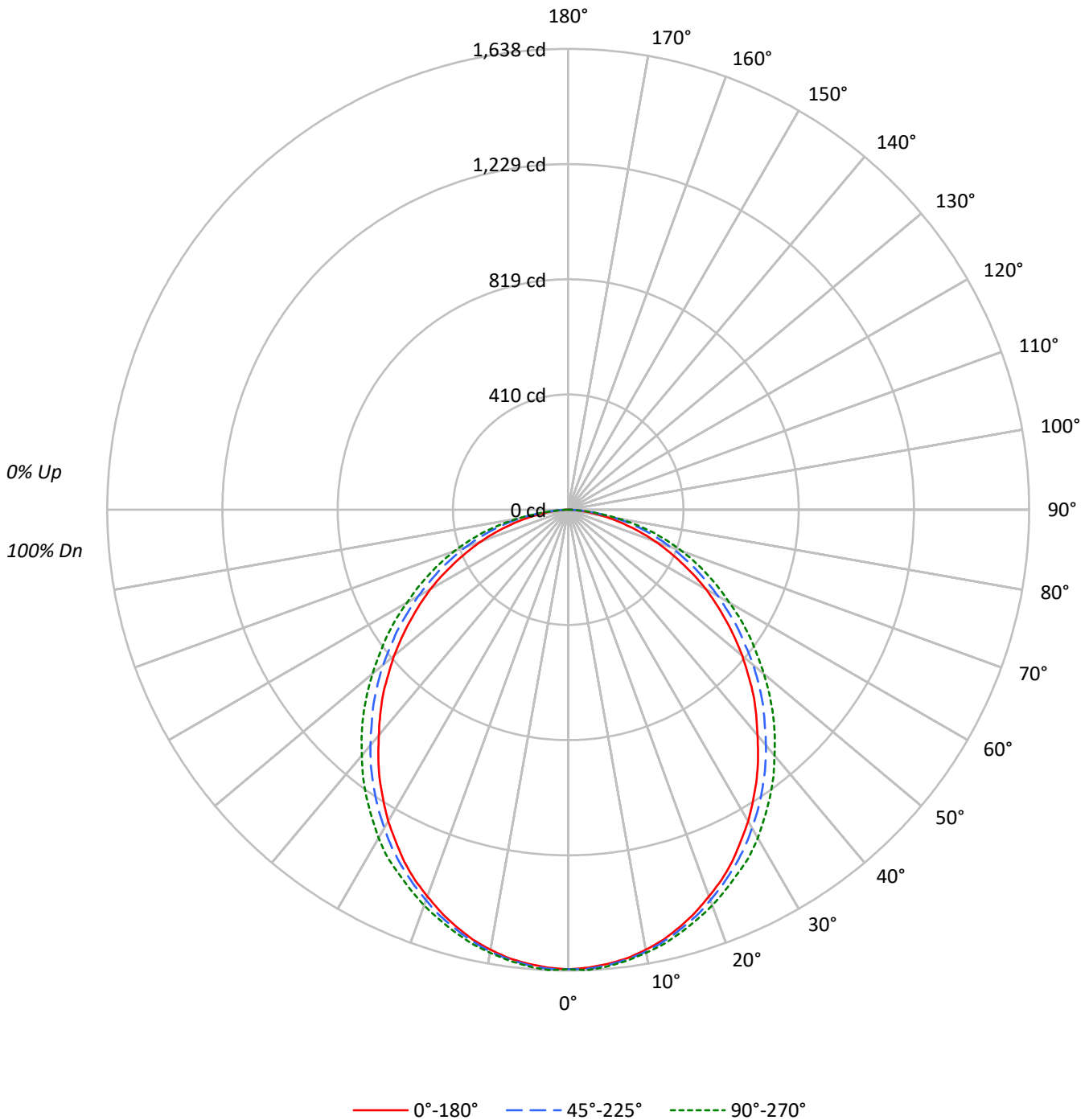
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5231	5231	5231
5°	5210	5223	5237
10°	5166	5186	5200
15°	5090	5118	5154
20°	4985	5035	5101
25°	4874	4942	5040
30°	4729	4832	4982
35°	4566	4708	4883
40°	4374	4570	4767
45°	4216	4429	4661
50°	4021	4276	4521
55°	3815	4113	4399
60°	3624	3938	4239
65°	3349	3786	4142
70°	3079	3619	4019
75°	2695	3435	3857
80°	2244	3111	3309
85°	1727	2197	2039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.6
10°-20°	435.3	10.2
20°-30°	645.0	15.2
30°-40°	754.3	17.8
40°-50°	753.7	17.7
50°-60°	657.1	15.5
60°-70°	491.3	11.6
70°-80°	286.0	6.7
80°-90°	70.2	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°	1234.5	29.1
0°-40°	1988.8	46.8
0°-60°	3399.5	80.0
0°-90°	4247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1621	1623	1625	1629	1629	154
15°	1535	1537	1544	1550	1554	432
25°	1379	1384	1398	1418	1426	634
35°	1168	1176	1204	1238	1249	729
45°	931	942	978	1014	1029	716
55°	683	696	737	771	788	612
65°	442	459	500	532	547	440
75°	218	241	278	299	312	233
85°	47	56	60	58	56	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.4	1633.4	1633.4	1633.4	1633.4
2.5°	1629.1	1629.1	1633.4	1635.5	1637.6
5°	1620.6	1622.7	1624.8	1629.1	1629.1
7.5°	1607.7	1609.9	1612.0	1616.3	1616.3
10°	1588.5	1590.7	1594.9	1599.2	1599.2
12.5°	1565.0	1567.2	1571.4	1575.7	1580.0
15°	1535.2	1537.3	1543.7	1550.1	1554.4
17.5°	1501.0	1505.3	1513.8	1522.3	1526.6
20°	1462.6	1466.8	1477.5	1492.4	1496.7
22.5°	1424.1	1426.3	1439.1	1456.2	1462.6
25°	1379.3	1383.6	1398.5	1417.7	1426.3
27.5°	1328.0	1334.5	1355.8	1379.3	1392.1
30°	1278.9	1283.2	1306.7	1336.6	1347.3
32.5°	1223.4	1232.0	1257.6	1287.5	1298.2
35°	1167.9	1176.5	1204.2	1238.4	1249.0
37.5°	1108.1	1116.7	1150.8	1185.0	1197.8
40°	1046.2	1059.0	1093.2	1129.5	1140.2
42.5°	988.6	999.2	1033.4	1069.7	1086.8
45°	930.9	941.6	977.9	1014.2	1029.1
47.5°	866.9	877.5	918.1	954.4	969.3
50°	807.1	817.8	858.3	894.6	907.4
52.5°	745.2	758.0	794.3	832.7	845.5
55°	683.2	696.0	736.6	770.8	787.9
57.5°	623.5	638.4	672.6	708.9	725.9
60°	565.8	576.5	614.9	649.1	661.9
62.5°	503.9	516.7	555.1	591.4	604.2
65°	442.0	459.1	499.6	531.6	546.6
67.5°	384.3	401.4	442.0	471.9	488.9
70°	328.8	345.9	386.5	414.2	429.2
72.5°	273.3	294.6	330.9	356.6	369.4
75°	217.8	241.3	277.6	298.9	311.7
77.5°	168.7	192.2	224.2	243.4	247.7
80°	121.7	145.2	168.7	177.2	179.4
82.5°	83.3	100.4	113.2	113.2	117.4
85°	47.0	55.5	59.8	57.6	55.5
87.5°	17.1	19.2	17.1	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)