

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: P229401

Luminaire Tested: **14ALNG-LD5-35-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36088)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD5-35-UNV-L840-CD1-SVPD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (84)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3498.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.29
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

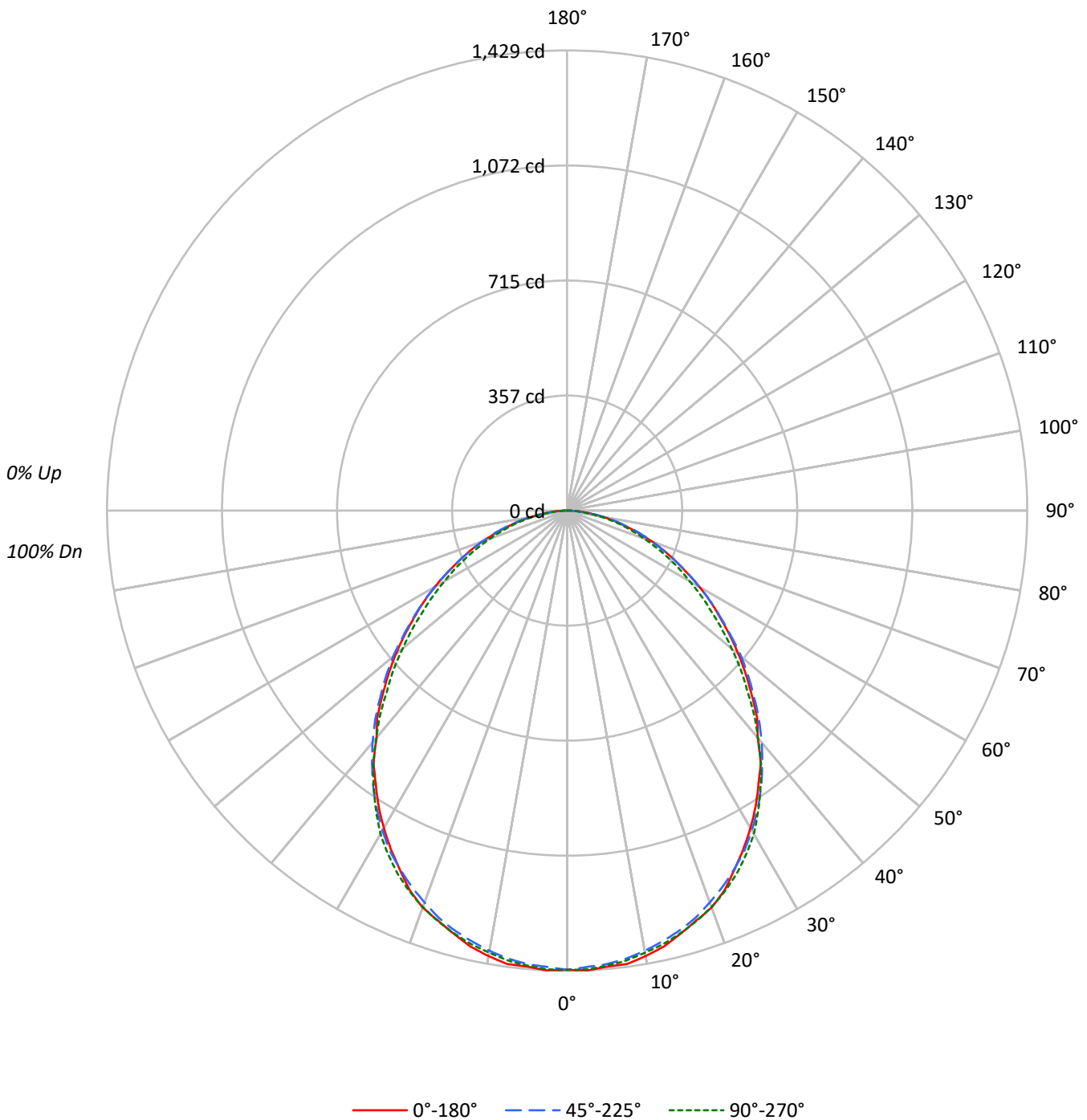
Input Watts (W): 34.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4806	4806	4806
5°	4808	4783	4798
10°	4807	4749	4770
15°	4746	4709	4741
20°	4704	4644	4699
25°	4572	4566	4628
30°	4429	4464	4511
35°	4262	4318	4306
40°	4048	4135	4055
45°	3863	3914	3768
50°	3642	3698	3499
55°	3410	3437	3213
60°	3204	3194	2967
65°	2964	2964	2746
70°	2747	2747	2507
75°	2459	2539	2300
80°	2189	2276	1981
85°	1887	1651	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.9
10°-20°	382.7	10.9
20°-30°	567.5	16.2
30°-40°	653.0	18.7
40°-50°	626.8	17.9
50°-60°	516.5	14.8
60°-70°	363.3	10.4
70°-80°	200.8	5.7
80°-90°	52.5	1.5
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°	1084.9	31.0
0°-40°	1738.0	49.7
0°-60°	2881.3	82.4
0°-90°	3498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1422	1418	1414	1420	1418	135
15°	1361	1361	1350	1359	1359	384
25°	1230	1220	1228	1243	1245	567
35°	1036	1036	1050	1054	1047	648
45°	811	818	821	808	791	626
55°	580	591	585	562	547	521
65°	372	378	372	352	344	370
75°	189	197	195	180	177	202
85°	49	50	43	38	38	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.2	1426.2	1426.2	1426.2	1426.2
2.5°	1429.2	1424.6	1418.5	1426.2	1426.2
5°	1421.6	1418.5	1414.0	1420.1	1418.5
7.5°	1420.1	1410.9	1403.3	1410.9	1409.4
10°	1404.8	1401.8	1388.1	1395.7	1394.2
12.5°	1386.6	1383.5	1369.8	1378.9	1378.9
15°	1360.6	1360.6	1350.0	1359.1	1359.1
17.5°	1334.7	1333.2	1325.6	1336.3	1336.3
20°	1311.9	1301.2	1295.1	1310.4	1310.4
22.5°	1276.8	1263.1	1263.1	1281.4	1279.9
25°	1229.6	1220.5	1228.1	1243.3	1244.8
27.5°	1185.4	1180.9	1191.5	1205.2	1203.7
30°	1138.2	1133.6	1147.3	1159.5	1159.5
32.5°	1089.4	1086.4	1100.1	1110.8	1104.7
35°	1036.1	1036.1	1049.8	1054.4	1046.8
37.5°	987.3	985.8	995.0	996.5	988.9
40°	920.3	931.0	940.1	934.0	921.8
42.5°	873.1	876.1	882.2	870.0	859.4
45°	810.6	818.2	821.3	807.6	790.8
47.5°	752.7	761.8	763.4	743.6	731.4
50°	694.8	705.5	705.5	681.1	667.4
52.5°	636.9	647.6	643.0	624.7	606.4
55°	580.5	591.2	585.1	562.2	547.0
57.5°	528.7	536.3	530.2	508.9	493.7
60°	475.4	481.5	473.9	454.1	440.3
62.5°	420.5	428.2	423.6	403.8	393.1
65°	371.8	377.9	371.8	352.0	344.4
67.5°	326.1	327.6	324.5	309.3	298.6
70°	278.8	281.9	278.8	265.1	254.5
72.5°	231.6	236.2	239.2	224.0	213.3
75°	188.9	196.6	195.0	179.8	176.7
77.5°	149.3	158.5	155.4	141.7	138.7
80°	112.8	120.4	117.3	105.1	102.1
82.5°	77.7	83.8	77.7	71.6	68.6
85°	48.8	50.3	42.7	38.1	38.1
87.5°	21.3	18.3	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)