

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: P229400

Luminaire Tested: **14ALNG-LD5-31-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229400
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-LD5-31-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: 3115.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

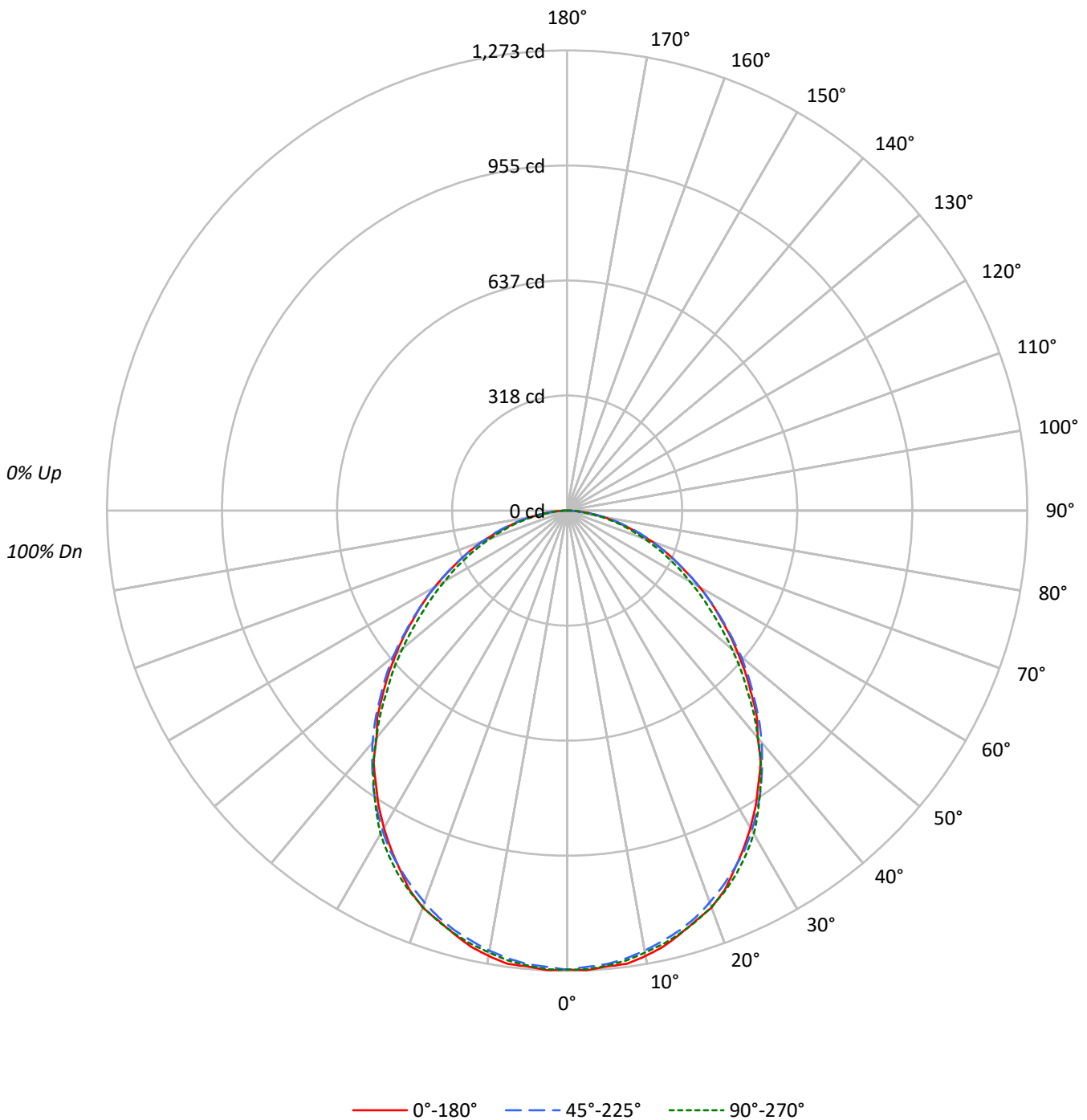
Input Watts (W): 29.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4279	4279	4279
5°	4282	4259	4273
10°	4280	4229	4248
15°	4227	4194	4222
20°	4189	4136	4184
25°	4071	4066	4121
30°	3944	3975	4018
35°	3796	3846	3835
40°	3605	3683	3611
45°	3440	3485	3356
50°	3243	3293	3115
55°	3037	3061	2862
60°	2853	2844	2642
65°	2640	2640	2445
70°	2446	2446	2232
75°	2190	2261	2049
80°	1948	2028	1764
85°	1678	1469	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.9
10°-20°	340.8	10.9
20°-30°	505.4	16.2
30°-40°	581.5	18.7
40°-50°	558.2	17.9
50°-60°	460.0	14.8
60°-70°	323.5	10.4
70°-80°	178.9	5.7
80°-90°	46.8	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°	966.2	31.0
0°-40°	1547.7	49.7
0°-60°	2565.8	82.4
0°-90°	3115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1266	1263	1259	1265	1263	121
15°	1212	1212	1202	1210	1210	342
25°	1095	1087	1094	1107	1108	505
35°	923	923	935	939	932	577
45°	722	729	731	719	704	557
55°	517	526	521	501	487	464
65°	331	336	331	313	307	329
75°	168	175	174	160	157	180
85°	43	45	38	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.0	1270.0	1270.0	1270.0	1270.0
2.5°	1272.7	1268.7	1263.2	1270.0	1270.0
5°	1265.9	1263.2	1259.2	1264.6	1263.2
7.5°	1264.6	1256.4	1249.7	1256.4	1255.1
10°	1251.0	1248.3	1236.1	1242.9	1241.5
12.5°	1234.7	1232.0	1219.8	1228.0	1228.0
15°	1211.7	1211.7	1202.2	1210.3	1210.3
17.5°	1188.6	1187.2	1180.5	1190.0	1190.0
20°	1168.3	1158.8	1153.3	1166.9	1166.9
22.5°	1137.0	1124.8	1124.8	1141.1	1139.8
25°	1095.0	1086.8	1093.6	1107.2	1108.5
27.5°	1055.6	1051.6	1061.1	1073.3	1071.9
30°	1013.6	1009.5	1021.7	1032.6	1032.6
32.5°	970.1	967.4	979.6	989.1	983.7
35°	922.7	922.7	934.9	938.9	932.2
37.5°	879.2	877.9	886.0	887.4	880.6
40°	819.5	829.0	837.2	831.8	820.9
42.5°	777.5	780.2	785.6	774.8	765.3
45°	721.8	728.6	731.3	719.1	704.2
47.5°	670.3	678.4	679.8	662.1	651.3
50°	618.7	628.2	628.2	606.5	594.3
52.5°	567.2	576.7	572.6	556.3	540.0
55°	517.0	526.5	521.0	500.7	487.1
57.5°	470.8	477.6	472.2	453.2	439.6
60°	423.3	428.8	422.0	404.3	392.1
62.5°	374.5	381.3	377.2	359.6	350.1
65°	331.1	336.5	331.1	313.4	306.6
67.5°	290.4	291.7	289.0	275.4	265.9
70°	248.3	251.0	248.3	236.1	226.6
72.5°	206.2	210.3	213.0	199.5	190.0
75°	168.2	175.0	173.7	160.1	157.4
77.5°	133.0	141.1	138.4	126.2	123.5
80°	100.4	107.2	104.5	93.6	90.9
82.5°	69.2	74.6	69.2	63.8	61.1
85°	43.4	44.8	38.0	33.9	33.9
87.5°	19.0	16.3	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)