

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: P229328

Luminaire Tested: **14ALNG-LD5-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36085)
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-L830-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3430.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.3
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

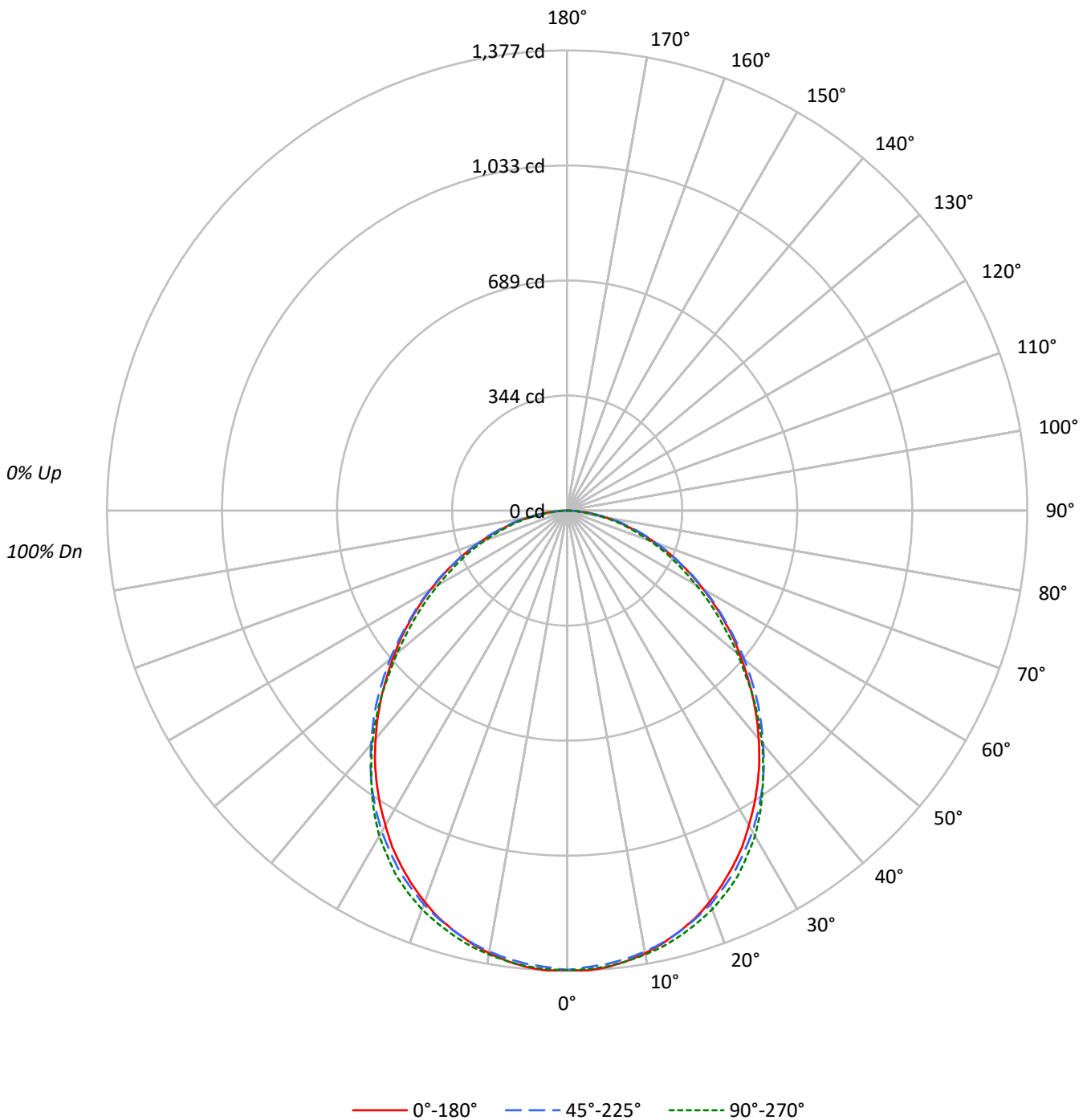
Input Watts (W): 34.46
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4633	4633	4633
5°	4639	4608	4630
10°	4603	4586	4615
15°	4545	4549	4590
20°	4469	4497	4554
25°	4364	4421	4489
30°	4231	4314	4376
35°	4088	4185	4195
40°	3921	4014	3992
45°	3741	3834	3745
50°	3548	3623	3486
55°	3366	3396	3237
60°	3172	3184	3007
65°	2972	2972	2796
70°	2748	2780	2572
75°	2497	2596	2366
80°	2280	2344	2016
85°	1991	1763	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.8
10°-20°	368.9	10.8
20°-30°	547.7	16.0
30°-40°	632.7	18.4
40°-50°	613.1	17.9
50°-60°	511.9	14.9
60°-70°	366.0	10.7
70°-80°	205.3	6.0
80°-90°	54.7	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°	1046.4	30.5
0°-40°	1679.1	49.0
0°-60°	2804.0	81.8
0°-90°	3430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1372	1369	1362	1370	1369	130
15°	1303	1305	1304	1317	1316	367
25°	1174	1180	1189	1206	1208	540
35°	994	1002	1017	1024	1020	621
45°	785	796	804	794	786	605
55°	573	582	578	562	551	513
65°	373	379	373	358	351	370
75°	192	200	199	186	182	206
85°	52	52	46	41	40	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1377.4	1374.9	1367.3	1374.9	1374.0
5°	1371.5	1368.9	1362.2	1369.8	1368.9
7.5°	1360.5	1358.8	1352.9	1362.2	1360.5
10°	1345.3	1343.6	1340.2	1349.5	1348.7
12.5°	1325.8	1325.8	1324.2	1334.3	1335.1
15°	1303.0	1304.7	1303.9	1316.6	1315.7
17.5°	1277.7	1277.7	1280.2	1294.6	1293.7
20°	1246.4	1248.1	1254.0	1267.5	1270.1
22.5°	1211.8	1214.3	1221.9	1238.8	1239.7
25°	1173.7	1179.7	1189.0	1205.9	1207.5
27.5°	1134.0	1138.3	1149.2	1167.0	1165.3
30°	1087.5	1097.7	1108.7	1123.0	1124.7
32.5°	1041.9	1051.2	1064.7	1076.6	1074.0
35°	993.8	1002.2	1017.4	1024.2	1019.9
37.5°	944.7	954.0	966.7	970.1	963.3
40°	891.5	903.3	912.6	912.6	907.6
42.5°	839.1	848.4	858.5	854.3	846.7
45°	785.0	796.0	804.5	794.3	785.9
47.5°	730.1	742.8	747.0	736.0	721.7
50°	676.9	690.4	691.2	676.9	665.0
52.5°	626.2	636.3	633.8	619.4	605.9
55°	572.9	582.2	578.0	561.9	551.0
57.5°	520.5	529.8	527.3	508.7	498.6
60°	470.7	475.8	472.4	458.0	446.2
62.5°	420.8	426.7	425.0	404.8	396.3
65°	372.7	379.4	372.7	358.3	350.7
67.5°	327.0	331.3	329.6	317.7	307.6
70°	278.9	284.8	282.2	268.7	261.1
72.5°	235.8	242.5	241.7	227.3	218.0
75°	191.8	200.3	199.4	185.9	181.7
77.5°	156.3	160.6	161.4	147.0	144.5
80°	117.5	123.4	120.8	108.2	103.9
82.5°	82.8	87.9	80.3	72.7	71.0
85°	51.5	52.4	45.6	41.4	39.7
87.5°	21.1	21.1	16.1	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)