

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: P229343

Luminaire Tested: **22ALNG-LD5-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229343
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-LD5-35-UNV-L830-CD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3429.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

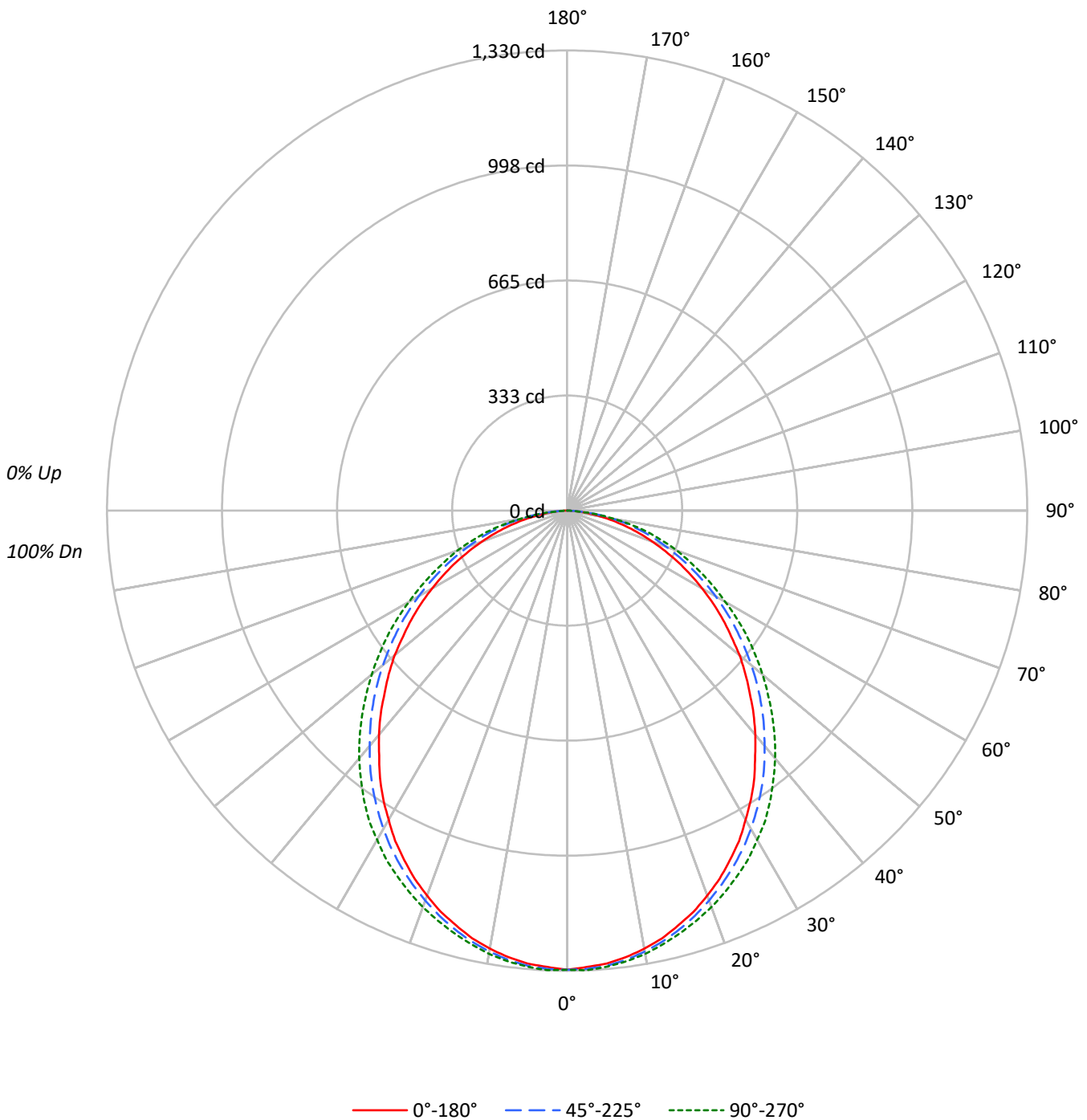
Input Watts (W): 29.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4250	4250	4250
5°	4224	4244	4254
10°	4181	4208	4231
15°	4114	4155	4191
20°	4035	4088	4156
25°	3936	4012	4113
30°	3815	3929	4063
35°	3687	3831	4000
40°	3537	3711	3910
45°	3379	3595	3797
50°	3241	3460	3674
55°	3069	3323	3546
60°	2885	3176	3382
65°	2689	3010	3249
70°	2444	2847	3157
75°	2172	2696	2991
80°	1804	2442	2484
85°	1415	1642	1499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.6
10°-20°	353.3	10.3
20°-30°	523.9	15.3
30°-40°	613.2	17.9
40°-50°	611.6	17.8
50°-60°	530.4	15.5
60°-70°	391.2	11.4
70°-80°	225.5	6.6
80°-90°	54.9	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°	1002.3	29.2
0°-40°	1615.5	47.1
0°-60°	2757.4	80.4
0°-90°	3429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1314	1316	1320	1323	1323	125
15°	1241	1244	1253	1263	1264	350
25°	1114	1119	1136	1157	1164	513
35°	943	950	980	1011	1023	589
45°	746	759	794	825	838	577
55°	550	563	595	622	635	491
65°	355	371	397	416	429	351
75°	176	191	218	237	242	187
85°	38	45	45	44	41	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.2	1327.2	1327.2	1327.2	1327.2
2.5°	1320.3	1321.8	1325.7	1328.8	1329.5
5°	1314.1	1315.7	1320.3	1322.6	1323.4
7.5°	1301.8	1305.7	1309.5	1313.4	1314.1
10°	1285.7	1289.5	1294.1	1298.7	1301.1
12.5°	1266.4	1268.0	1275.7	1281.0	1283.3
15°	1241.0	1244.1	1253.3	1262.6	1264.1
17.5°	1215.6	1219.5	1227.9	1238.7	1242.5
20°	1184.0	1187.9	1199.4	1213.3	1219.5
22.5°	1151.7	1154.8	1168.6	1185.6	1193.3
25°	1114.0	1118.6	1135.5	1157.1	1164.0
27.5°	1076.3	1080.1	1100.9	1124.8	1134.8
30°	1031.6	1040.1	1062.4	1089.3	1098.6
32.5°	989.3	996.2	1021.6	1052.4	1064.7
35°	943.1	950.0	980.0	1010.8	1023.1
37.5°	892.3	904.6	935.4	967.7	979.3
40°	846.1	857.6	887.6	921.5	935.4
42.5°	797.6	806.8	841.5	874.6	887.6
45°	746.0	759.1	793.7	825.3	838.4
47.5°	699.0	711.3	745.2	775.2	787.6
50°	650.5	662.1	694.4	726.7	737.5
52.5°	597.4	612.8	644.4	674.4	685.9
55°	549.7	562.8	595.1	622.0	635.1
57.5°	500.4	513.5	545.8	568.9	582.0
60°	450.4	467.3	495.8	519.7	528.1
62.5°	403.4	415.0	445.7	467.3	478.1
65°	354.9	371.1	397.2	416.5	428.8
67.5°	307.2	324.9	350.3	371.8	380.3
70°	261.0	278.7	304.1	324.1	337.2
72.5°	217.9	234.8	261.0	280.2	287.9
75°	175.5	190.9	217.9	237.1	241.7
77.5°	135.5	152.4	177.8	189.4	190.9
80°	97.8	114.7	132.4	138.6	134.7
82.5°	66.2	77.8	90.1	88.5	90.1
85°	38.5	45.4	44.7	43.9	40.8
87.5°	14.6	16.2	12.3	9.2	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)