

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: P229342

Luminaire Tested: **22ALNG-LD5-31-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229342
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-LD5-31-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: 3032.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

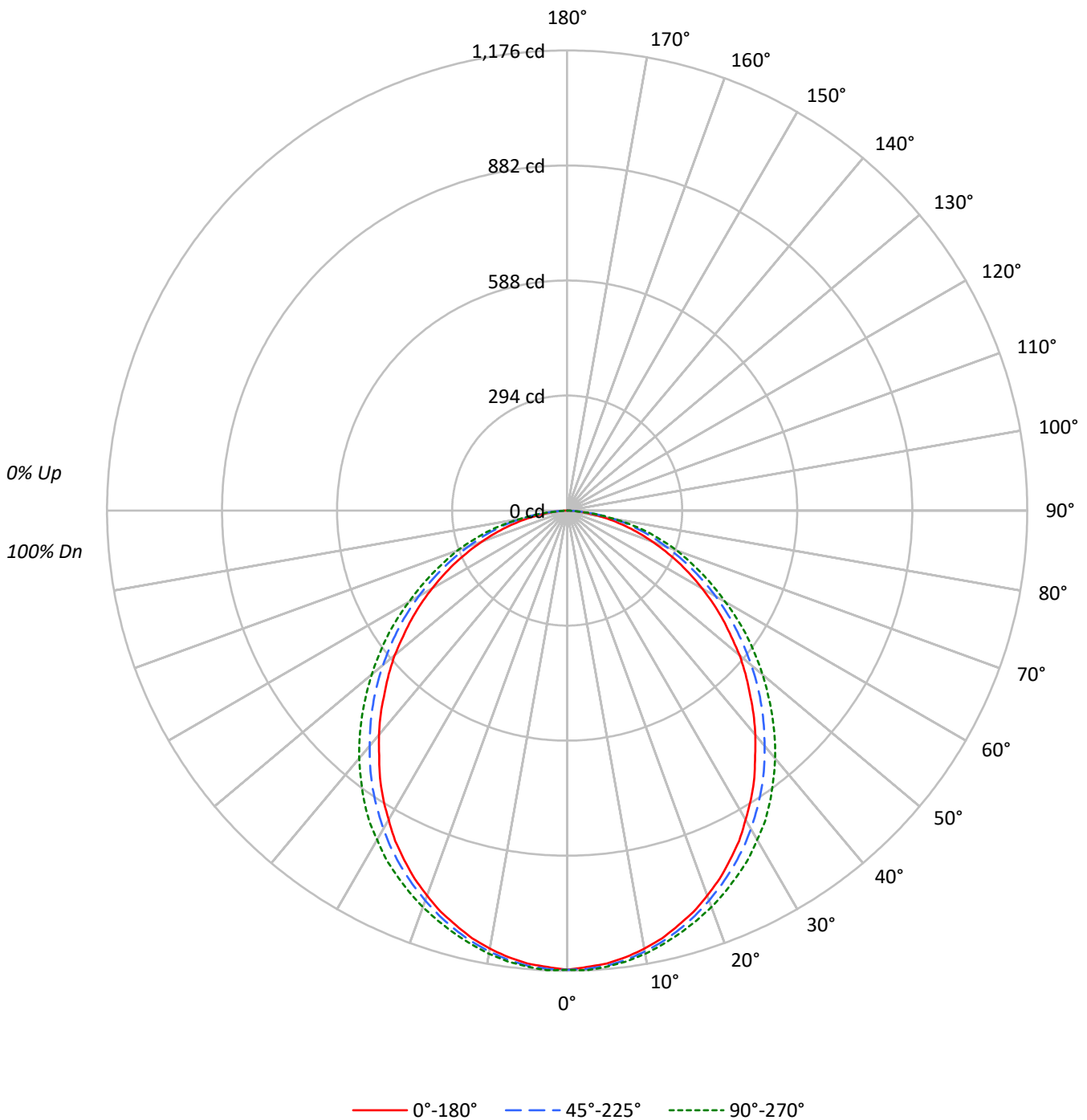
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3758	3758	3758
5°	3736	3753	3762
10°	3697	3721	3741
15°	3638	3674	3706
20°	3568	3615	3675
25°	3481	3548	3637
30°	3373	3474	3592
35°	3260	3388	3537
40°	3127	3281	3458
45°	2987	3178	3357
50°	2866	3059	3249
55°	2714	2938	3136
60°	2550	2808	2991
65°	2378	2662	2873
70°	2161	2518	2792
75°	1920	2383	2644
80°	1595	2160	2196
85°	1249	1451	1326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.6
10°-20°	312.4	10.3
20°-30°	463.2	15.3
30°-40°	542.2	17.9
40°-50°	540.8	17.8
50°-60°	469.0	15.5
60°-70°	345.9	11.4
70°-80°	199.4	6.6
80°-90°	48.5	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°	886.3	29.2
0°-40°	1428.4	47.1
0°-60°	2438.2	80.4
0°-90°	3032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1162	1163	1167	1170	1170	110
15°	1097	1100	1108	1116	1118	309
25°	985	989	1004	1023	1029	453
35°	834	840	867	894	905	521
45°	660	671	702	730	741	510
55°	486	498	526	550	562	434
65°	314	328	351	368	379	311
75°	155	169	193	210	214	165
85°	34	40	40	39	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.6	1173.6	1173.6	1173.6	1173.6
2.5°	1167.4	1168.8	1172.2	1174.9	1175.6
5°	1162.0	1163.4	1167.4	1169.5	1170.2
7.5°	1151.1	1154.5	1157.9	1161.3	1162.0
10°	1136.8	1140.2	1144.3	1148.4	1150.4
12.5°	1119.8	1121.2	1128.0	1132.7	1134.8
15°	1097.3	1100.0	1108.2	1116.4	1117.7
17.5°	1074.9	1078.3	1085.8	1095.3	1098.7
20°	1047.0	1050.4	1060.6	1072.8	1078.3
22.5°	1018.4	1021.1	1033.3	1048.3	1055.1
25°	985.0	989.1	1004.1	1023.1	1029.3
27.5°	951.7	955.1	973.4	994.5	1003.4
30°	912.2	919.7	939.4	963.2	971.4
32.5°	874.7	880.9	903.3	930.5	941.4
35°	833.9	840.0	866.6	893.8	904.7
37.5°	789.0	799.9	827.1	855.7	865.9
40°	748.1	758.3	784.9	814.8	827.1
42.5°	705.2	713.4	744.0	773.3	784.9
45°	659.6	671.2	701.8	729.7	741.3
47.5°	618.1	629.0	658.9	685.5	696.4
50°	575.2	585.4	614.0	642.6	652.1
52.5°	528.2	541.9	569.8	596.3	606.5
55°	486.0	497.6	526.2	550.0	561.6
57.5°	442.5	454.0	482.6	503.1	514.6
60°	398.2	413.2	438.4	459.5	467.0
62.5°	356.7	366.9	394.1	413.2	422.7
65°	313.8	328.1	351.3	368.3	379.2
67.5°	271.6	287.3	309.7	328.8	336.3
70°	230.8	246.4	268.9	286.6	298.2
72.5°	192.6	207.6	230.8	247.8	254.6
75°	155.2	168.8	192.6	209.7	213.7
77.5°	119.8	134.8	157.2	167.5	168.8
80°	86.5	101.4	117.1	122.5	119.1
82.5°	58.5	68.8	79.6	78.3	79.6
85°	34.0	40.2	39.5	38.8	36.1
87.5°	12.9	14.3	10.9	8.2	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)