

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: P229348

Luminaire Tested: **22ALNG-LD5-31-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229348
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-L835-CD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (126)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

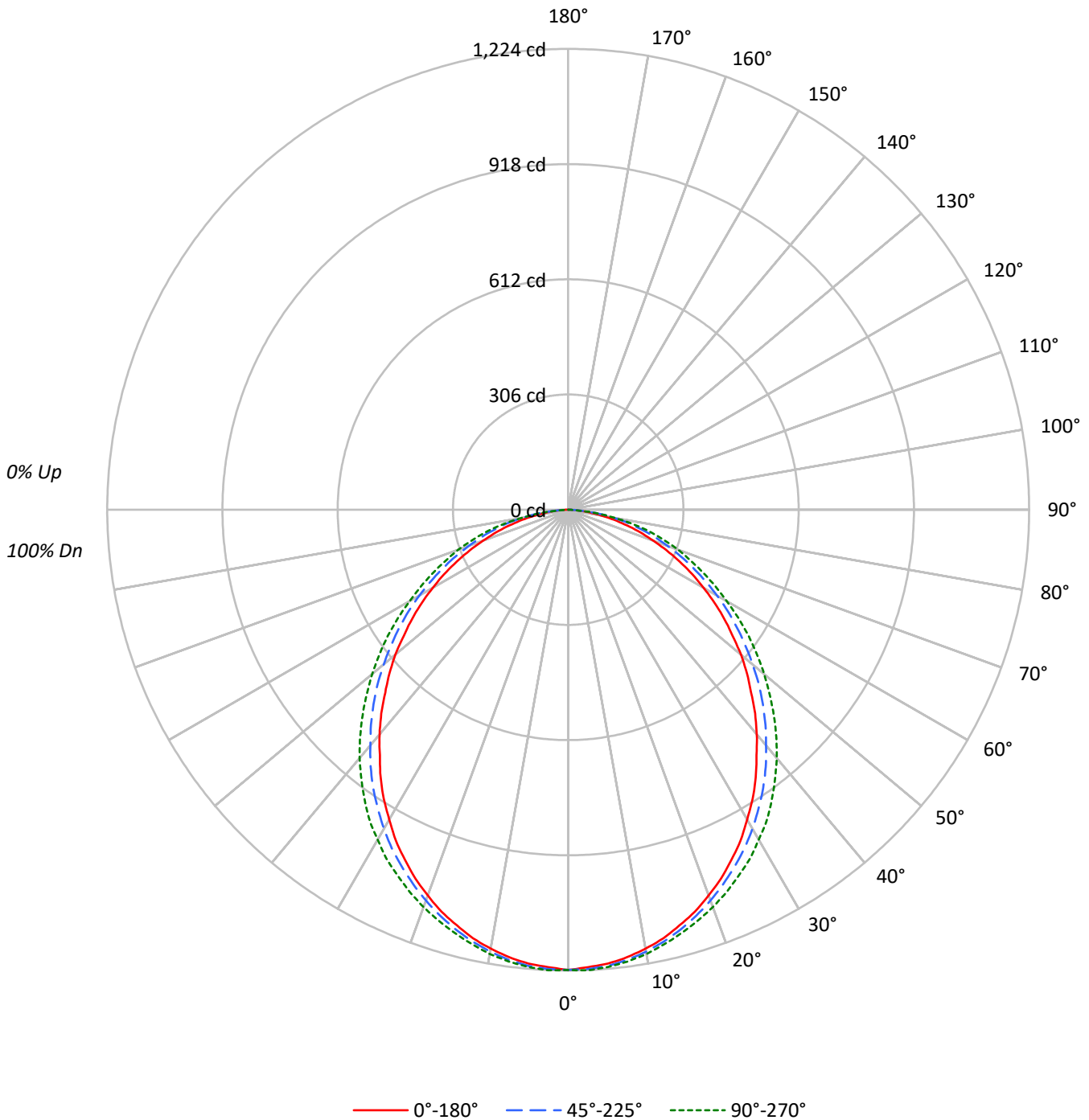
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3914	3914	3914
5°	3891	3909	3918
10°	3851	3876	3896
15°	3789	3827	3860
20°	3716	3764	3828
25°	3625	3695	3788
30°	3513	3618	3742
35°	3395	3529	3684
40°	3257	3418	3602
45°	3111	3311	3497
50°	2985	3186	3384
55°	2826	3060	3266
60°	2657	2925	3115
65°	2477	2773	2992
70°	2251	2623	2907
75°	2001	2483	2754
80°	1660	2250	2289
85°	1304	1510	1382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	3.6
10°-20°	325.4	10.3
20°-30°	482.5	15.3
30°-40°	564.7	17.9
40°-50°	563.3	17.8
50°-60°	488.5	15.5
60°-70°	360.3	11.4
70°-80°	207.7	6.6
80°-90°	50.6	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°	923.1	29.2
0°-40°	1487.8	47.1
0°-60°	2539.5	80.4
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1210	1212	1216	1218	1219	115
15°	1143	1146	1154	1163	1164	322
25°	1026	1030	1046	1066	1072	472
35°	868	875	903	931	942	542
45°	687	699	731	760	772	531
55°	506	518	548	573	585	452
65°	327	342	366	384	395	324
75°	162	176	201	218	223	172
85°	36	42	41	40	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.3	1222.3	1222.3	1222.3	1222.3
2.5°	1216.0	1217.4	1220.9	1223.8	1224.5
5°	1210.3	1211.7	1216.0	1218.1	1218.8
7.5°	1198.9	1202.5	1206.0	1209.6	1210.3
10°	1184.1	1187.6	1191.9	1196.1	1198.2
12.5°	1166.3	1167.7	1174.8	1179.8	1181.9
15°	1142.9	1145.8	1154.3	1162.8	1164.2
17.5°	1119.5	1123.1	1130.9	1140.8	1144.3
20°	1090.5	1094.0	1104.6	1117.4	1123.1
22.5°	1060.7	1063.5	1076.3	1091.9	1099.0
25°	1025.9	1030.2	1045.8	1065.6	1072.0
27.5°	991.2	994.7	1013.9	1035.9	1045.1
30°	950.1	957.9	978.4	1003.3	1011.8
32.5°	911.1	917.5	940.9	969.2	980.6
35°	868.5	874.9	902.6	930.9	942.3
37.5°	821.7	833.1	861.5	891.2	901.9
40°	779.2	789.8	817.5	848.7	861.5
42.5°	734.5	743.0	775.0	805.4	817.5
45°	687.0	699.1	731.0	760.1	772.1
47.5°	643.8	655.1	686.3	714.0	725.3
50°	599.1	609.8	639.5	669.3	679.2
52.5°	550.2	564.4	593.4	621.1	631.7
55°	506.2	518.3	548.1	572.9	584.9
57.5°	460.9	472.9	502.7	524.0	536.0
60°	414.8	430.4	456.6	478.6	486.4
62.5°	371.5	382.2	410.5	430.4	440.3
65°	326.9	341.7	365.9	383.6	394.9
67.5°	282.9	299.2	322.6	342.5	350.3
70°	240.4	256.7	280.1	298.5	310.5
72.5°	200.7	216.2	240.4	258.1	265.2
75°	161.7	175.8	200.7	218.4	222.6
77.5°	124.8	140.4	163.8	174.4	175.8
80°	90.0	105.6	122.0	127.6	124.1
82.5°	61.0	71.6	83.0	81.5	83.0
85°	35.5	41.8	41.1	40.4	37.6
87.5°	13.5	14.9	11.3	8.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)