

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: P229406

Luminaire Tested: **22ALNG-LD5-35-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)  
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-SVPD1-U  
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (126)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3270.0 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

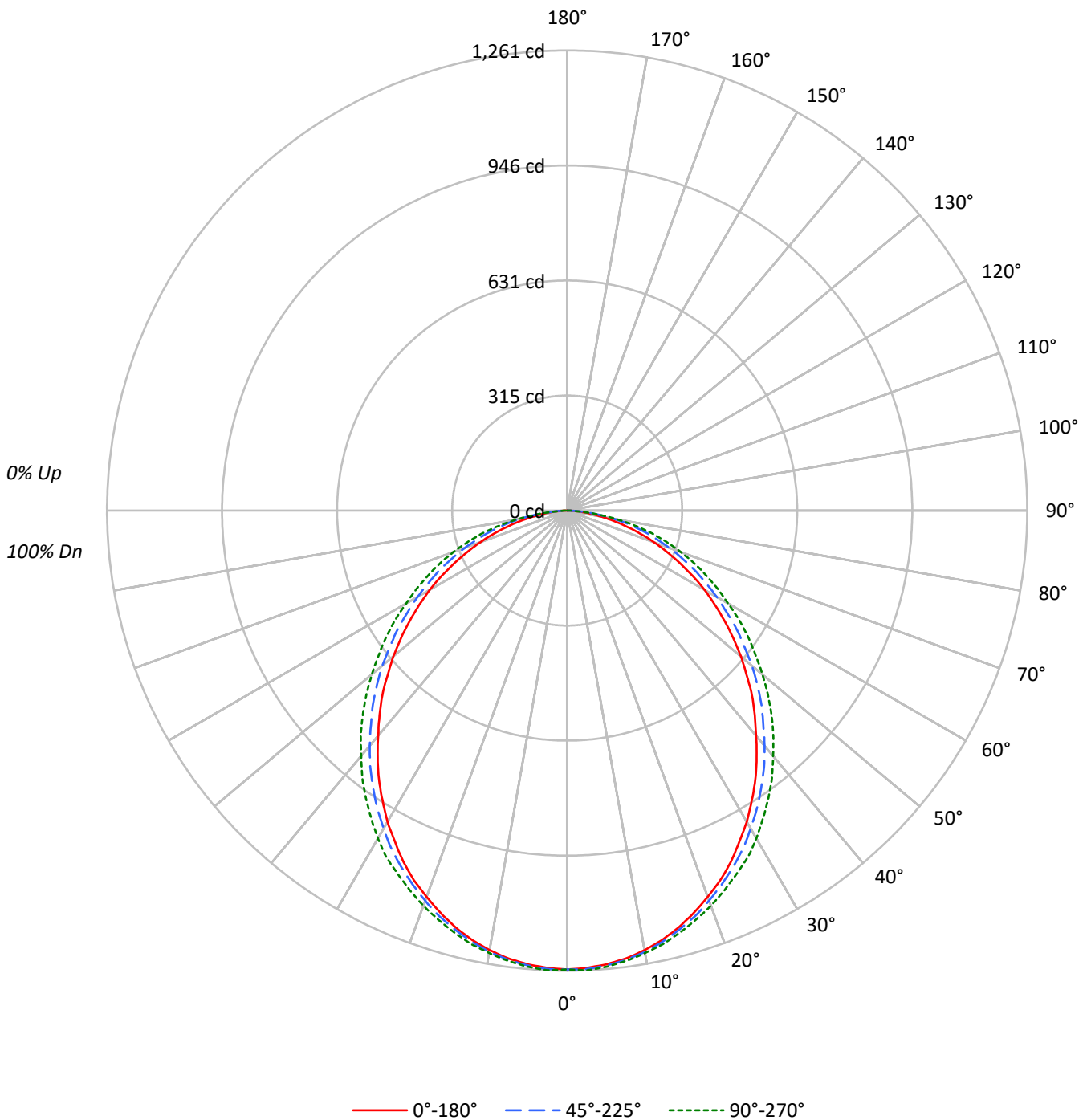
Input Watts (W): 29.52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4027	4027	4027
5°	4011	4022	4032
10°	3977	3993	4004
15°	3919	3941	3968
20°	3838	3877	3927
25°	3753	3805	3881
30°	3641	3720	3836
35°	3515	3625	3760
40°	3367	3519	3670
45°	3246	3410	3589
50°	3096	3293	3481
55°	2937	3167	3387
60°	2790	3033	3264
65°	2579	2915	3189
70°	2371	2787	3094
75°	2075	2644	2970
80°	1728	2396	2547
85°	1330	1690	1569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	3.6
10°-20°	335.2	10.3
20°-30°	496.6	15.2
30°-40°	580.7	17.8
40°-50°	580.3	17.7
50°-60°	505.9	15.5
60°-70°	378.3	11.6
70°-80°	220.2	6.7
80°-90°	54.1	1.7
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°	950.5	29.1
0°-40°	1531.2	46.8
0°-60°	2617.5	80.0
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1248	1249	1251	1254	1254	118
15°	1182	1184	1189	1194	1197	333
25°	1062	1065	1077	1092	1098	488
35°	899	906	927	954	962	562
45°	717	725	753	781	792	552
55°	526	536	567	594	607	471
65°	340	353	385	409	421	338
75°	168	186	214	230	240	180
85°	36	43	46	44	43	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1254.3	1254.3	1257.6	1259.3	1260.9
5°	1247.8	1249.4	1251.0	1254.3	1254.3
7.5°	1237.9	1239.5	1241.2	1244.5	1244.5
10°	1223.1	1224.7	1228.0	1231.3	1231.3
12.5°	1205.0	1206.7	1209.9	1213.2	1216.5
15°	1182.0	1183.6	1188.6	1193.5	1196.8
17.5°	1155.7	1159.0	1165.6	1172.1	1175.4
20°	1126.1	1129.4	1137.6	1149.1	1152.4
22.5°	1096.5	1098.2	1108.0	1121.2	1126.1
25°	1062.0	1065.3	1076.8	1091.6	1098.2
27.5°	1022.5	1027.5	1043.9	1062.0	1071.9
30°	984.7	988.0	1006.1	1029.1	1037.3
32.5°	942.0	948.6	968.3	991.3	999.5
35°	899.2	905.8	927.2	953.5	961.7
37.5°	853.2	859.8	886.1	912.4	922.3
40°	805.5	815.4	841.7	869.6	877.9
42.5°	761.1	769.4	795.7	823.6	836.8
45°	716.8	725.0	752.9	780.9	792.4
47.5°	667.4	675.7	706.9	734.8	746.4
50°	621.4	629.6	660.9	688.8	698.7
52.5°	573.7	583.6	611.5	641.1	651.0
55°	526.1	535.9	567.2	593.5	606.6
57.5°	480.0	491.5	517.8	545.8	558.9
60°	435.6	443.9	473.5	499.8	509.6
62.5°	388.0	397.8	427.4	455.4	465.2
65°	340.3	353.4	384.7	409.3	420.9
67.5°	295.9	309.1	340.3	363.3	376.5
70°	253.2	266.3	297.6	318.9	330.4
72.5°	210.4	226.9	254.8	274.5	284.4
75°	167.7	185.8	213.7	230.2	240.0
77.5°	129.9	148.0	172.6	187.4	190.7
80°	93.7	111.8	129.9	136.4	138.1
82.5°	64.1	77.3	87.1	87.1	90.4
85°	36.2	42.7	46.0	44.4	42.7
87.5°	13.2	14.8	13.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)