

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: P229351

Luminaire Tested: **22ALNG-LD5-44-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229351  
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-LD5-44-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: 4454.1 lumens  
Efficiency: N/A  
Efficacy: 115.7 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

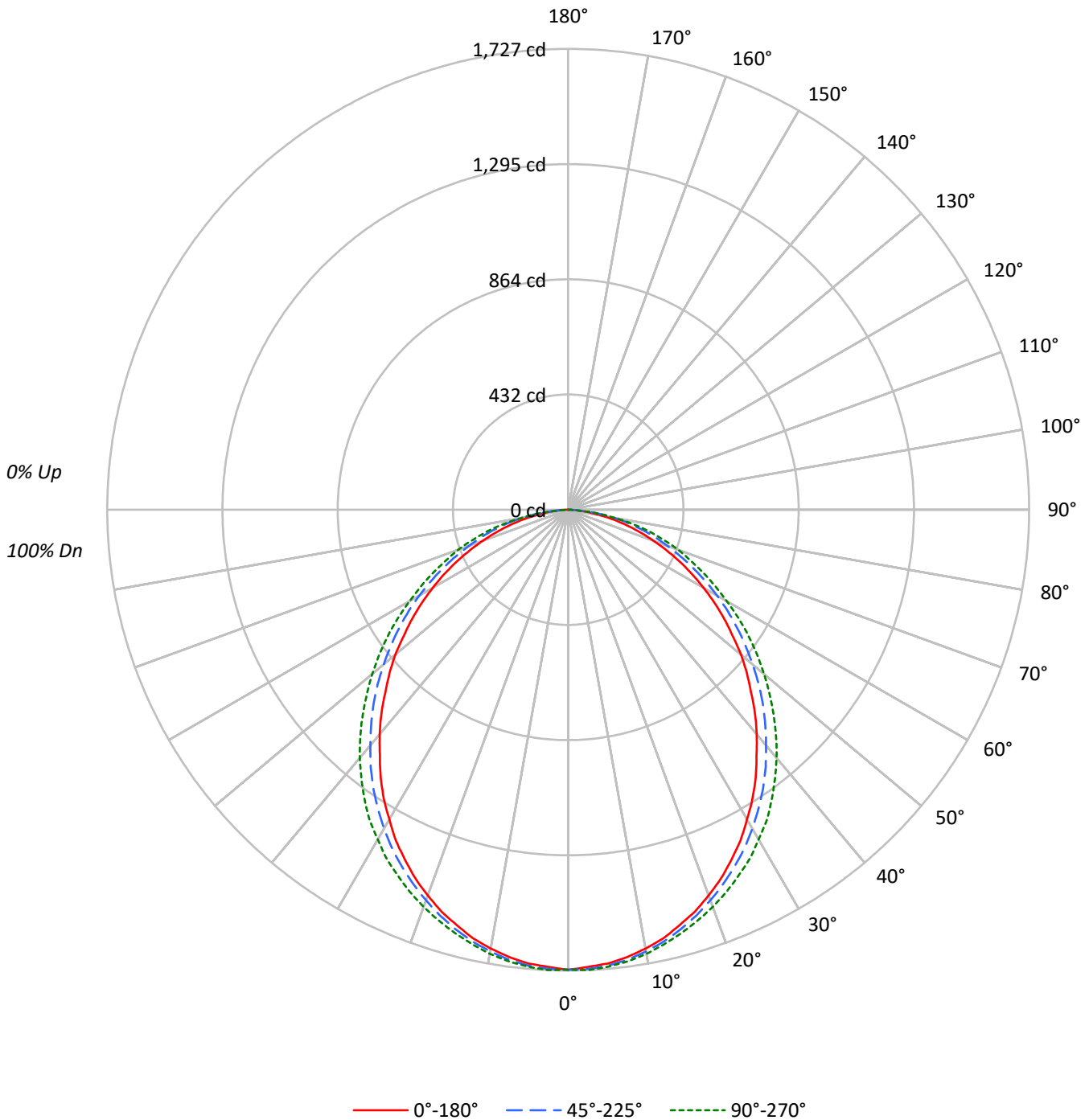
Input Watts (W): 38.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5521	5521	5521
5°	5488	5513	5526
10°	5431	5466	5496
15°	5345	5398	5444
20°	5242	5310	5398
25°	5113	5212	5343
30°	4955	5103	5277
35°	4789	4977	5196
40°	4594	4820	5079
45°	4389	4669	4932
50°	4210	4494	4773
55°	3987	4316	4606
60°	3747	4125	4394
65°	3493	3910	4221
70°	3174	3699	4101
75°	2821	3502	3885
80°	2342	3172	3227
85°	1837	2131	1947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	3.6
10°-20°	458.9	10.3
20°-30°	680.5	15.3
30°-40°	796.5	17.9
40°-50°	794.4	17.8
50°-60°	688.9	15.5
60°-70°	508.1	11.4
70°-80°	292.9	6.6
80°-90°	71.3	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°	1301.9	29.2
0°-40°	2098.4	47.1
0°-60°	3581.8	80.4
0°-90°	4454.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1707	1709	1715	1718	1719	162
15°	1612	1616	1628	1640	1642	454
25°	1447	1453	1475	1503	1512	666
35°	1225	1234	1273	1313	1329	765
45°	969	986	1031	1072	1089	749
55°	714	731	773	808	825	638
65°	461	482	516	541	557	457
75°	228	248	283	308	314	242
85°	50	59	58	57	53	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1724	1724	1724	1724	1724
2.5°	1715	1717	1722	1726	1727
5°	1707	1709	1715	1718	1719
7.5°	1691	1696	1701	1706	1707
10°	1670	1675	1681	1687	1690
12.5°	1645	1647	1657	1664	1667
15°	1612	1616	1628	1640	1642
17.5°	1579	1584	1595	1609	1614
20°	1538	1543	1558	1576	1584
22.5°	1496	1500	1518	1540	1550
25°	1447	1453	1475	1503	1512
27.5°	1398	1403	1430	1461	1474
30°	1340	1351	1380	1415	1427
32.5°	1285	1294	1327	1367	1383
35°	1225	1234	1273	1313	1329
37.5°	1159	1175	1215	1257	1272
40°	1099	1114	1153	1197	1215
42.5°	1036	1048	1093	1136	1153
45°	969	986	1031	1072	1089
47.5°	908	924	968	1007	1023
50°	845	860	902	944	958
52.5°	776	796	837	876	891
55°	714	731	773	808	825
57.5°	650	667	709	739	756
60°	585	607	644	675	686
62.5°	524	539	579	607	621
65°	461	482	516	541	557
67.5°	399	422	455	483	494
70°	339	362	395	421	438
72.5°	283	305	339	364	374
75°	228	248	283	308	314
77.5°	176	198	231	246	248
80°	127	149	172	180	175
82.5°	86	101	117	115	117
85°	50	59	58	57	53
87.5°	19	21	16	12	9
90°	0	0	0	0	0

(END OF REPORT)