

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: P229355

Luminaire Tested: **22ALNG-LD5-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229355  
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-L840-CD1-U  
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS  
Light Source: (126)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3572.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 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

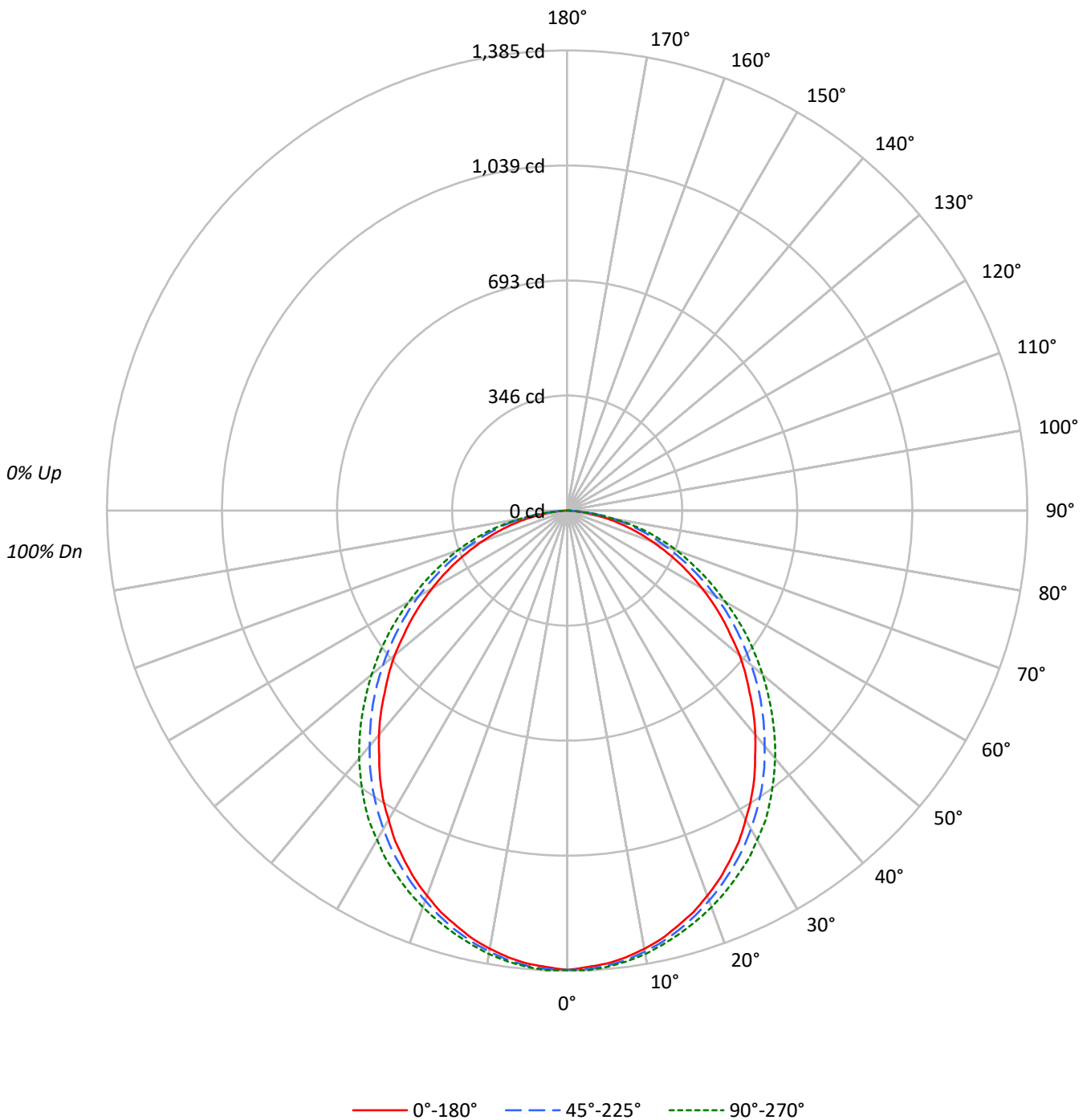
Input Watts (W): 29.52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4428	4428	4428
5°	4401	4422	4432
10°	4355	4384	4407
15°	4286	4329	4366
20°	4203	4258	4329
25°	4100	4180	4285
30°	3974	4092	4232
35°	3841	3991	4167
40°	3685	3866	4074
45°	3519	3745	3955
50°	3376	3604	3828
55°	3197	3461	3694
60°	3005	3308	3523
65°	2801	3136	3385
70°	2546	2966	3289
75°	2262	2809	3116
80°	1877	2543	2587
85°	1473	1709	1562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.6
10°-20°	368.0	10.3
20°-30°	545.7	15.3
30°-40°	638.7	17.9
40°-50°	637.1	17.8
50°-60°	552.5	15.5
60°-70°	407.5	11.4
70°-80°	234.9	6.6
80°-90°	57.2	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°	1044.1	29.2
0°-40°	1682.8	47.1
0°-60°	2872.4	80.4
0°-90°	3572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1369	1371	1375	1378	1379	130
15°	1293	1296	1306	1315	1317	364
25°	1160	1165	1183	1205	1213	534
35°	982	990	1021	1053	1066	613
45°	777	791	827	860	873	601
55°	573	586	620	648	662	512
65°	370	386	414	434	447	366
75°	183	199	227	247	252	194
85°	40	47	46	46	42	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1375.4	1377.0	1381.0	1384.2	1385.0
5°	1368.9	1370.6	1375.4	1377.8	1378.6
7.5°	1356.1	1360.1	1364.1	1368.1	1368.9
10°	1339.3	1343.3	1348.1	1352.9	1355.3
12.5°	1319.2	1320.8	1328.8	1334.5	1336.9
15°	1292.8	1296.0	1305.6	1315.2	1316.8
17.5°	1266.3	1270.3	1279.1	1290.4	1294.4
20°	1233.4	1237.4	1249.5	1263.9	1270.3
22.5°	1199.7	1202.9	1217.4	1235.0	1243.0
25°	1160.4	1165.2	1182.9	1205.3	1212.6
27.5°	1121.1	1125.2	1146.8	1171.7	1182.1
30°	1074.6	1083.4	1106.7	1134.8	1144.4
32.5°	1030.5	1037.7	1064.2	1096.3	1109.1
35°	982.4	989.6	1020.9	1053.0	1065.8
37.5°	929.5	942.3	974.4	1008.1	1020.1
40°	881.4	893.4	924.7	959.9	974.4
42.5°	830.8	840.5	876.5	911.0	924.7
45°	777.1	790.7	826.8	859.7	873.3
47.5°	728.2	741.0	776.3	807.6	820.4
50°	677.7	689.7	723.4	757.1	768.3
52.5°	622.3	638.4	671.2	702.5	714.5
55°	572.6	586.2	619.9	648.0	661.6
57.5°	521.3	534.9	568.6	592.6	606.3
60°	469.1	486.8	516.5	541.3	550.1
62.5°	420.2	432.3	464.3	486.8	498.0
65°	369.7	386.5	413.8	433.9	446.7
67.5°	320.0	338.4	364.9	387.3	396.2
70°	271.9	290.3	316.8	337.6	351.3
72.5°	227.0	244.6	271.9	291.9	299.9
75°	182.8	198.9	227.0	247.0	251.8
77.5°	141.1	158.8	185.3	197.3	198.9
80°	101.8	119.5	137.9	144.4	140.3
82.5°	69.0	81.0	93.8	92.2	93.8
85°	40.1	47.3	46.5	45.7	42.5
87.5°	15.2	16.8	12.8	9.6	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)