

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: P225779

Luminaire Tested: **22GR-LD5-36-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-A-UNV-L935-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3086.3 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

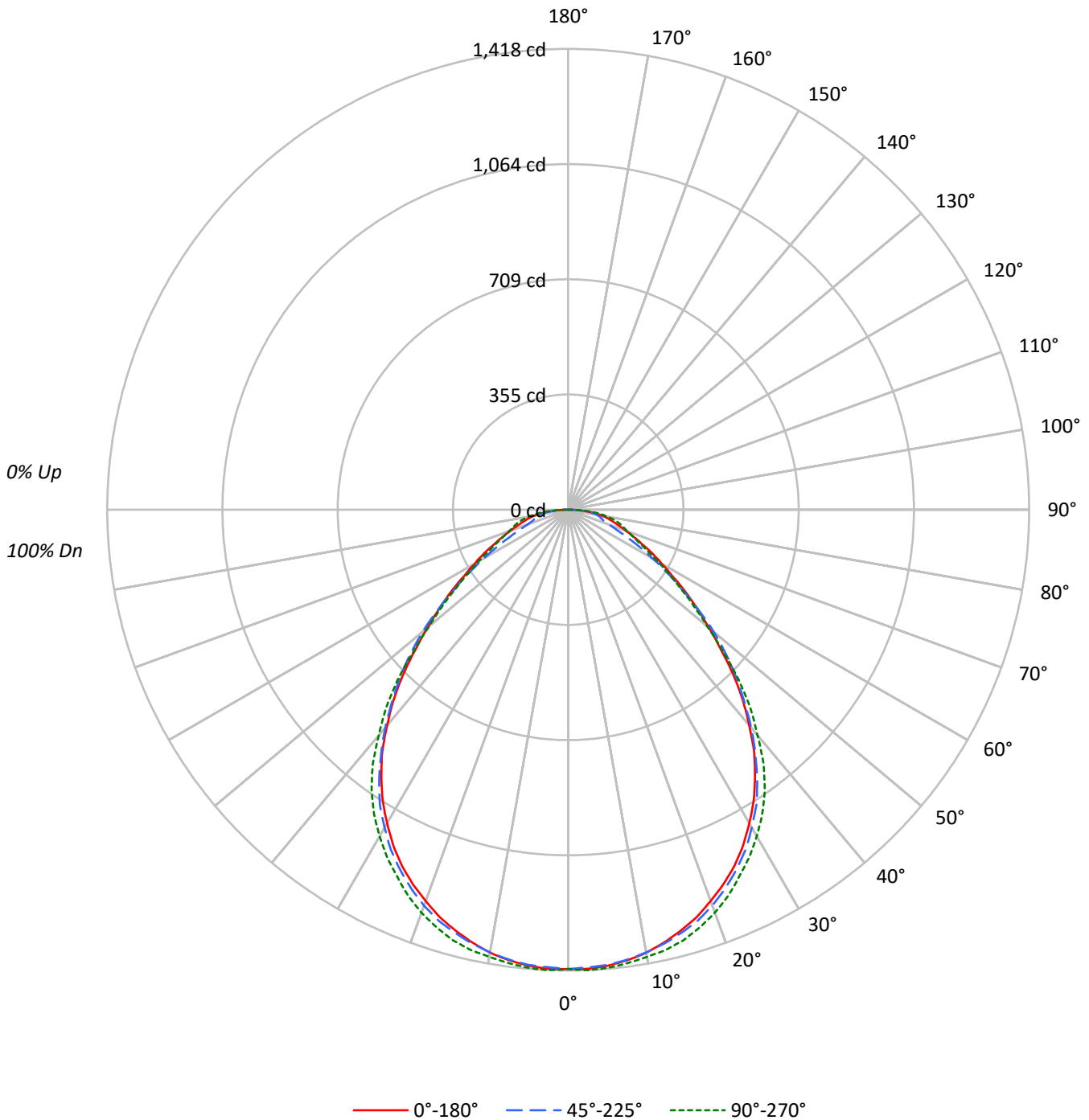
Input Watts (W): 34.56  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225779

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L935-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225779

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L935-CD1-U

**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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	4527	4527	4527
5°	4528	4521	4549
10°	4501	4498	4543
15°	4443	4467	4545
20°	4367	4418	4497
25°	4274	4322	4400
30°	4119	4175	4289
35°	3917	3962	4122
40°	3621	3660	3789
45°	3253	3312	3363
50°	2812	2913	2784
55°	2454	2390	2358
60°	2125	1914	2043
65°	1900	1502	1834
70°	1762	1244	1809
75°	1760	1315	2009
80°	1948	1656	2265
85°	2032	1797	2561



TEST NUMBER: P225779

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L935-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	4.3
10°-20°	380.9	12.3
20°-30°	563.4	18.3
30°-40°	635.8	20.6
40°-50°	560.5	18.2
50°-60°	384.5	12.5
60°-70°	226.9	7.4
70°-80°	141.6	4.6
80°-90°	59.0	1.9
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°	1078.1	34.9
0°-40°	1713.9	55.5
0°-60°	2658.9	86.1
0°-90°	3086.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1408	1406	1406	1411	1415	134
15°	1340	1342	1347	1364	1371	378
25°	1210	1214	1223	1239	1245	555
35°	1002	1010	1013	1038	1054	624
45°	718	722	731	735	743	552
55°	440	429	428	414	422	394
65°	251	220	198	229	242	253
75°	142	128	106	149	162	153
85°	55	52	49	64	70	60
90°	0	0	0	0	0	



TEST NUMBER: P225779

CATALOG NUMBER: 22GR-LD5-36-A-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1413.5	1413.5	1413.5	1413.5	1413.5
2.5°	1414.1	1410.6	1409.1	1414.9	1418.5
5°	1408.4	1405.6	1406.2	1411.3	1414.9
7.5°	1398.3	1396.2	1396.2	1403.4	1407.0
10°	1384.0	1383.3	1383.3	1391.9	1396.9
12.5°	1363.9	1364.6	1367.5	1379.0	1387.5
15°	1340.2	1341.6	1347.3	1363.9	1371.0
17.5°	1314.4	1314.4	1325.8	1338.8	1347.3
20°	1281.3	1283.4	1296.3	1310.7	1319.4
22.5°	1247.5	1251.1	1261.9	1278.4	1286.3
25°	1209.5	1213.8	1223.1	1238.9	1245.3
27.5°	1164.9	1170.7	1180.7	1192.2	1205.9
30°	1113.9	1122.6	1129.1	1144.9	1159.9
32.5°	1062.2	1070.1	1077.3	1093.9	1111.0
35°	1001.9	1010.5	1013.4	1037.8	1054.3
37.5°	940.1	943.8	945.2	969.6	987.5
40°	866.2	873.4	875.5	894.9	906.4
42.5°	795.1	797.9	802.2	816.6	830.3
45°	718.2	721.8	731.2	735.4	742.6
47.5°	637.8	648.6	659.3	645.7	646.4
50°	564.5	573.2	584.6	558.8	558.8
52.5°	499.1	503.5	504.2	482.6	487.0
55°	439.5	428.7	428.1	413.7	422.3
57.5°	380.0	365.6	360.6	356.2	366.3
60°	331.8	305.9	298.8	305.2	318.9
62.5°	292.3	259.2	245.6	262.1	274.4
65°	250.7	220.5	198.2	229.1	242.0
67.5°	218.4	189.6	160.9	204.7	214.0
70°	188.2	165.9	132.9	186.0	193.2
72.5°	163.7	146.5	114.9	168.0	176.7
75°	142.2	127.8	106.3	148.7	162.4
77.5°	125.0	109.1	99.1	128.5	145.1
80°	105.6	89.8	89.8	107.7	122.8
82.5°	83.3	70.4	72.5	87.6	98.4
85°	55.3	51.7	48.9	63.9	69.7
87.5°	28.0	28.7	25.8	33.1	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)