

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: P213750

Luminaire Tested: **22GR-LD5-43-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213750
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-LD5-43-A-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694.9 lumens
Efficiency: N/A
Efficacy: 92.1 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

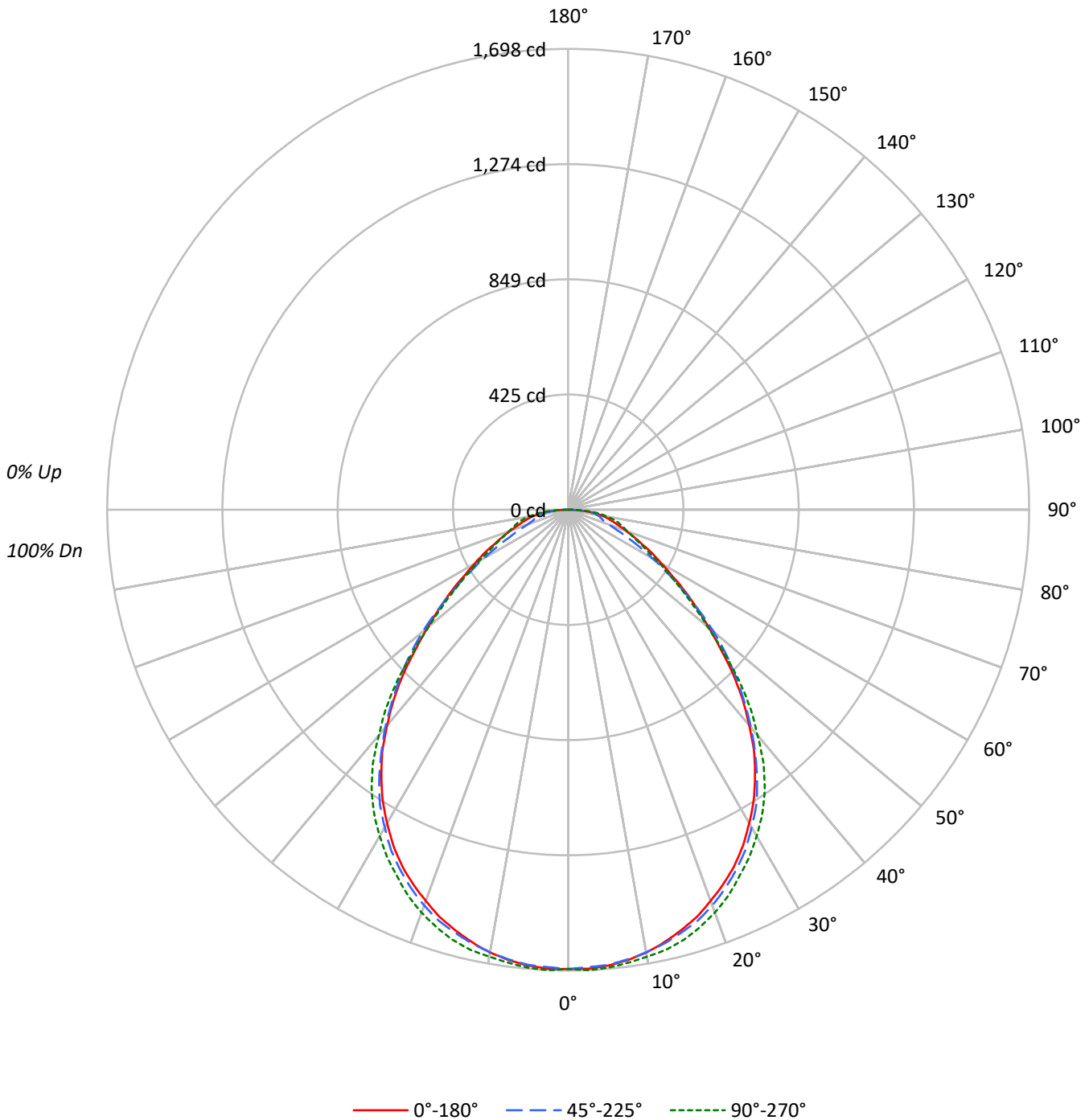
Input Watts (W): 40.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P213750

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P213750

CATALOG NUMBER: 22GR-LD5-43-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°	5419	5419	5419
5°	5420	5412	5445
10°	5388	5385	5438
15°	5320	5348	5442
20°	5228	5289	5383
25°	5117	5174	5269
30°	4932	4998	5135
35°	4689	4743	4935
40°	4335	4382	4536
45°	3894	3964	4027
50°	3367	3487	3333
55°	2938	2861	2823
60°	2544	2291	2445
65°	2273	1798	2196
70°	2109	1489	2166
75°	2107	1574	2404
80°	2331	1981	2711
85°	2432	2150	3064



TEST NUMBER: P213750

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	4.3
10°-20°	456.1	12.3
20°-30°	674.5	18.3
30°-40°	761.2	20.6
40°-50°	671.0	18.2
50°-60°	460.3	12.5
60°-70°	271.6	7.4
70°-80°	169.5	4.6
80°-90°	70.7	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°	1290.7	34.9
0°-40°	2051.9	55.5
0°-60°	3183.1	86.1
0°-90°	3694.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1686	1683	1684	1690	1694	160
15°	1604	1606	1613	1633	1641	452
25°	1448	1453	1464	1483	1491	665
35°	1199	1210	1213	1242	1262	747
45°	860	864	875	880	889	661
55°	526	513	512	495	506	472
65°	300	264	237	274	290	302
75°	170	153	127	178	194	183
85°	66	62	58	76	83	71
90°	0	0	0	0	0	



TEST NUMBER: P213750

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1693.0	1688.7	1687.0	1693.9	1698.1
5°	1686.1	1682.7	1683.6	1689.5	1693.9
7.5°	1674.1	1671.5	1671.5	1680.1	1684.4
10°	1656.9	1656.1	1656.1	1666.3	1672.4
12.5°	1632.8	1633.7	1637.1	1650.9	1661.2
15°	1604.5	1606.2	1613.0	1632.8	1641.4
17.5°	1573.5	1573.5	1587.3	1602.8	1613.0
20°	1533.9	1536.5	1552.0	1569.2	1579.6
22.5°	1493.5	1497.9	1510.7	1530.5	1539.9
25°	1448.0	1453.2	1464.3	1483.2	1491.0
27.5°	1394.7	1401.6	1413.6	1427.3	1443.6
30°	1333.6	1343.9	1351.7	1370.5	1388.6
32.5°	1271.7	1281.1	1289.8	1309.5	1330.2
35°	1199.4	1209.8	1213.2	1242.4	1262.2
37.5°	1125.5	1129.8	1131.5	1160.8	1182.3
40°	1037.0	1045.6	1048.1	1071.3	1085.1
42.5°	951.8	955.3	960.4	977.7	994.0
45°	859.9	864.1	875.3	880.4	889.1
47.5°	763.6	776.4	789.3	773.0	773.8
50°	675.8	686.1	699.9	668.9	668.9
52.5°	597.6	602.7	603.6	577.8	582.9
55°	526.2	513.3	512.5	495.3	505.6
57.5°	454.8	437.7	431.6	426.4	438.5
60°	397.2	366.3	357.7	365.4	381.7
62.5°	349.9	310.4	294.1	313.8	328.4
65°	300.0	264.0	237.3	274.3	289.8
67.5°	261.4	227.0	192.6	245.1	256.2
70°	225.2	198.6	159.0	222.7	231.3
72.5°	196.0	175.4	137.6	201.2	211.5
75°	170.3	153.1	127.2	178.0	194.3
77.5°	149.6	130.7	118.7	153.9	173.7
80°	126.4	107.4	107.4	128.9	147.0
82.5°	99.7	84.2	86.9	104.9	117.8
85°	66.2	61.9	58.5	76.5	83.4
87.5°	33.6	34.4	30.9	39.5	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)