

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: P213728

Luminaire Tested: **22GR-LD5-40-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213728
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-LD5-40-A-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3222.6 lumens
Efficiency: N/A
Efficacy: 83.1 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

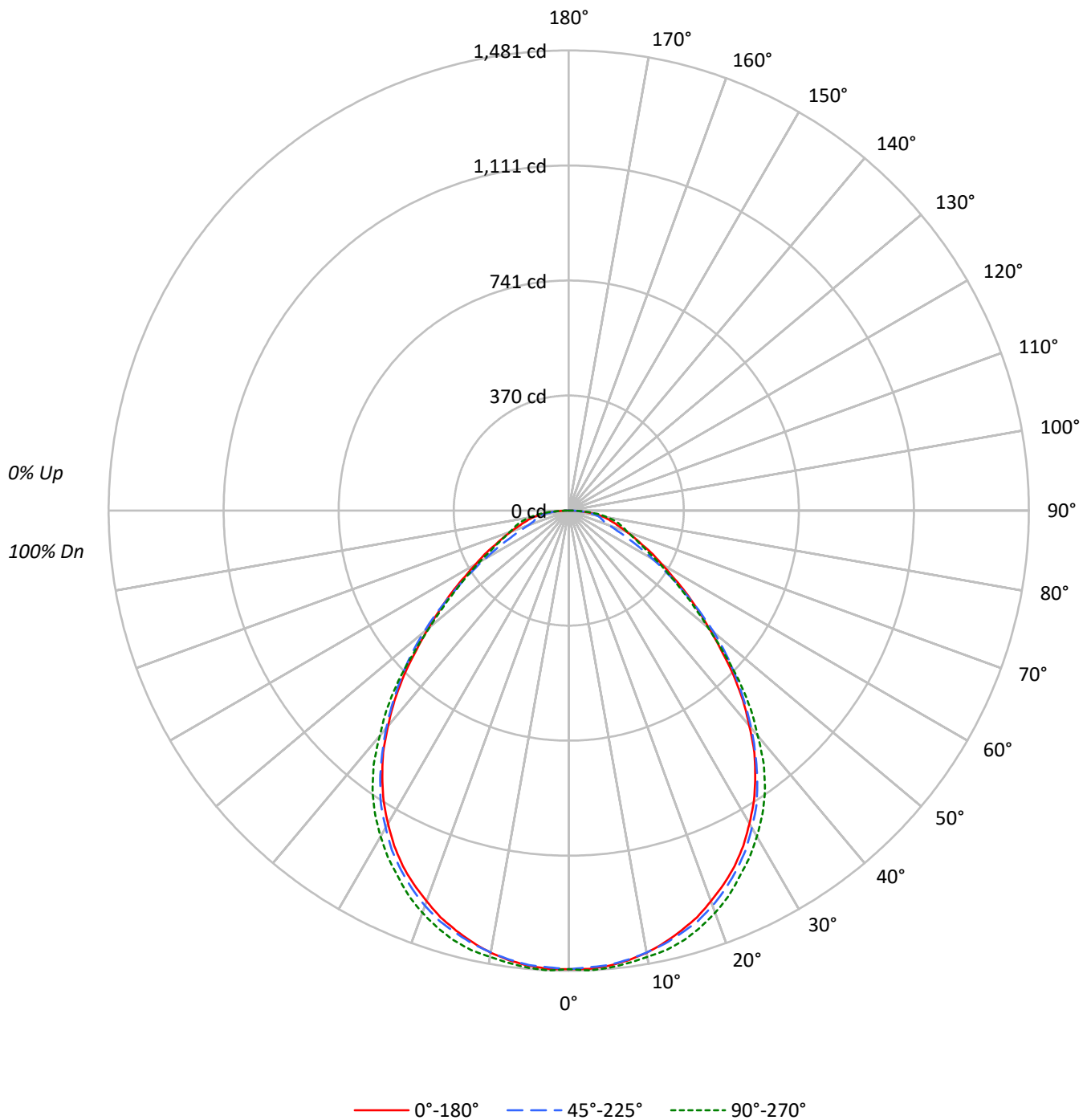
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4726	4726	4726
5°	4728	4720	4749
10°	4699	4697	4743
15°	4639	4665	4746
20°	4559	4613	4695
25°	4463	4513	4595
30°	4301	4359	4479
35°	4090	4137	4304
40°	3781	3821	3956
45°	3396	3457	3512
50°	2937	3041	2907
55°	2563	2496	2462
60°	2219	1998	2133
65°	1983	1569	1915
70°	1840	1299	1889
75°	1837	1373	2097
80°	2032	1728	2364
85°	2120	1874	2671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	4.3
10°-20°	397.8	12.3
20°-30°	588.3	18.3
30°-40°	663.9	20.6
40°-50°	585.2	18.2
50°-60°	401.5	12.5
60°-70°	236.9	7.4
70°-80°	147.8	4.6
80°-90°	61.6	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°	1125.7	34.9
0°-40°	1789.6	55.5
0°-60°	2776.2	86.1
0°-90°	3222.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3222.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1471	1468	1468	1474	1477	140
15°	1399	1401	1407	1424	1432	394
25°	1263	1267	1277	1294	1300	580
35°	1046	1055	1058	1084	1101	652
45°	750	754	763	768	775	576
55°	459	448	447	432	441	412
65°	262	230	207	239	253	264
75°	148	134	111	155	170	159
85°	58	54	51	67	73	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.8	1475.8	1475.8	1475.8	1475.8
2.5°	1476.6	1472.8	1471.3	1477.3	1481.1
5°	1470.6	1467.6	1468.4	1473.6	1477.3
7.5°	1460.1	1457.8	1457.8	1465.3	1469.1
10°	1445.1	1444.3	1444.3	1453.4	1458.6
12.5°	1424.1	1424.8	1427.9	1439.8	1448.9
15°	1399.3	1400.8	1406.9	1424.1	1431.6
17.5°	1372.4	1372.4	1384.3	1397.9	1406.9
20°	1337.8	1340.1	1353.6	1368.6	1377.6
22.5°	1302.6	1306.3	1317.6	1334.9	1343.1
25°	1262.9	1267.4	1277.1	1293.6	1300.4
27.5°	1216.4	1222.4	1232.9	1244.8	1259.1
30°	1163.1	1172.1	1178.8	1195.4	1211.1
32.5°	1109.1	1117.4	1124.9	1142.1	1160.1
35°	1046.2	1055.1	1058.1	1083.6	1100.8
37.5°	981.6	985.4	986.9	1012.4	1031.1
40°	904.4	911.9	914.1	934.4	946.4
42.5°	830.2	833.1	837.6	852.6	866.9
45°	749.9	753.7	763.4	767.9	775.4
47.5°	665.9	677.2	688.4	674.2	674.9
50°	589.4	598.4	610.4	583.4	583.4
52.5°	521.2	525.7	526.4	504.0	508.5
55°	459.0	447.7	447.0	432.0	440.9
57.5°	396.7	381.7	376.5	372.0	382.4
60°	346.4	319.5	311.9	318.7	333.0
62.5°	305.2	270.7	256.5	273.7	286.5
65°	261.7	230.3	207.0	239.2	252.7
67.5°	228.0	197.9	168.0	213.7	223.4
70°	196.5	173.3	138.7	194.3	201.7
72.5°	171.0	153.0	120.0	175.5	184.5
75°	148.5	133.5	111.0	155.2	169.5
77.5°	130.5	114.0	103.5	134.2	151.5
80°	110.2	93.7	93.7	112.5	128.2
82.5°	87.0	73.5	75.8	91.5	102.7
85°	57.7	54.0	51.0	66.7	72.7
87.5°	29.3	30.0	27.0	34.5	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)