

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: P234081

Luminaire Tested: **22GR-LD5-50-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F1-UNV-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3887.6 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

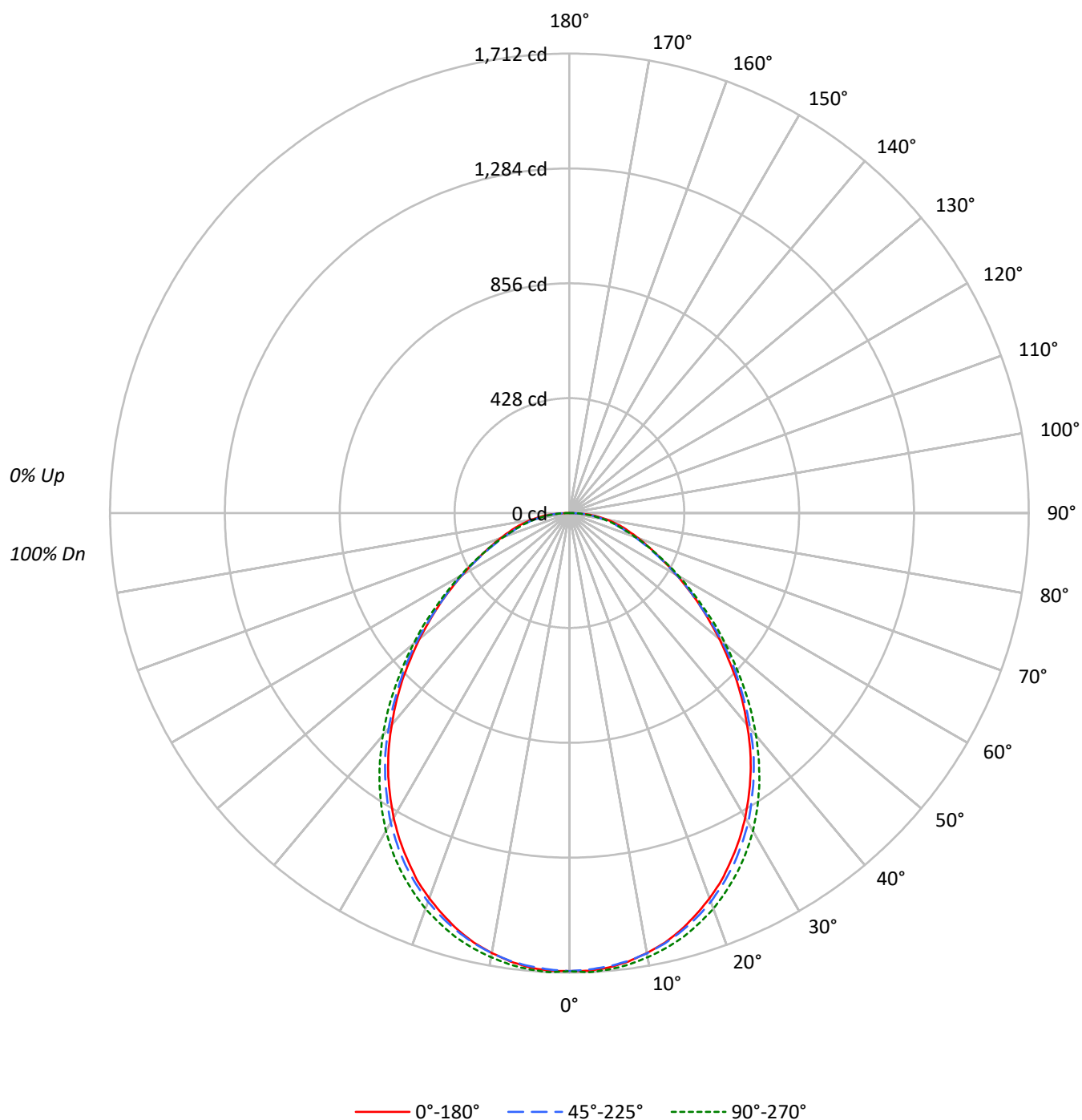
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	97	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	75	69	90	81	74	68		78	72	67			75	70	66			73
4	85	74	65	59	83	72	65	59		70	63	58			68	62	57			65
5	78	66	58	52	76	65	57	51		63	56	51			61	55	50			59
6	73	60	52	45	71	59	51	45		57	50	45			56	49	45			54
7	68	55	46	41	66	54	46	40		53	45	40			51	45	40			50
8	63	50	42	36	62	50	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			44	37	33			43
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5466	5466	5466
5°	5463	5449	5487
10°	5412	5415	5465
15°	5329	5348	5425
20°	5205	5251	5346
25°	5042	5113	5224
30°	4844	4927	5057
35°	4606	4680	4824
40°	4307	4378	4522
45°	3987	4049	4167
50°	3632	3690	3784
55°	3279	3289	3384
60°	2941	2952	3021
65°	2679	2625	2686
70°	2551	2407	2449
75°	2567	2321	2332
80°	2661	2346	2329
85°	2918	2484	2352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	4.1
10°-20°	455.5	11.7
20°-30°	666.7	17.1
30°-40°	749.6	19.3
40°-50°	691.3	17.8
50°-60°	532.7	13.7
60°-70°	351.5	9.0
70°-80°	204.6	5.3
80°-90°	74.5	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°	1283.4	33.0
0°-40°	2032.9	52.3
0°-60°	3256.9	83.8
0°-90°	3887.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3887.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1699	1696	1695	1703	1707	161
15°	1607	1607	1613	1627	1636	452
25°	1427	1434	1447	1467	1478	656
35°	1178	1184	1197	1221	1234	735
45°	880	881	894	912	920	678
55°	587	586	589	599	606	527
65°	354	352	346	349	354	355
75°	208	198	188	184	188	219
85°	79	78	68	62	64	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.7	1706.7	1706.7	1706.7	1706.7
2.5°	1706.7	1703.1	1702.2	1708.5	1712.1
5°	1699.4	1695.8	1694.9	1703.1	1706.7
7.5°	1685.0	1682.3	1683.2	1692.2	1696.7
10°	1664.3	1663.4	1665.2	1675.1	1680.5
12.5°	1639.9	1639.0	1642.6	1653.4	1660.7
15°	1607.4	1607.4	1612.9	1627.3	1636.3
17.5°	1568.7	1571.4	1579.5	1593.9	1603.8
20°	1527.2	1529.9	1540.7	1556.9	1568.7
22.5°	1481.2	1484.8	1495.6	1515.4	1525.4
25°	1427.0	1434.3	1446.9	1466.7	1478.5
27.5°	1371.1	1379.2	1391.0	1415.3	1426.1
30°	1309.8	1315.2	1332.3	1354.9	1367.5
32.5°	1244.8	1250.3	1264.7	1291.7	1302.6
35°	1178.1	1183.5	1197.0	1221.4	1234.0
37.5°	1105.9	1110.4	1126.7	1145.6	1159.2
40°	1030.2	1036.5	1047.3	1069.9	1081.6
42.5°	956.2	958.9	970.6	993.2	1002.2
45°	880.4	881.3	894.0	912.0	920.1
47.5°	802.0	803.8	819.1	829.9	838.0
50°	728.9	729.8	740.6	750.5	759.6
52.5°	655.8	655.8	661.2	672.0	683.7
55°	587.2	586.3	589.0	598.9	606.1
57.5°	522.3	521.4	525.0	531.3	536.7
60°	459.1	457.3	460.9	464.5	471.7
62.5°	403.2	405.0	400.5	405.9	411.3
65°	353.6	351.8	346.4	349.1	354.5
67.5°	311.2	308.5	299.5	301.3	307.6
70°	272.4	267.0	257.1	257.1	261.6
72.5°	237.2	231.8	219.2	220.1	221.9
75°	207.5	198.4	187.6	184.0	188.5
77.5°	175.0	167.8	157.8	155.1	156.9
80°	144.3	138.9	127.2	123.6	126.3
82.5°	114.6	110.0	96.5	93.8	94.7
85°	79.4	78.5	67.6	62.2	64.0
87.5°	42.4	43.3	35.2	31.6	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)