

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: P234101

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234101
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-LD5-50-A-UNV-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.8 lumens
Efficiency: N/A
Efficacy: 95.9 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

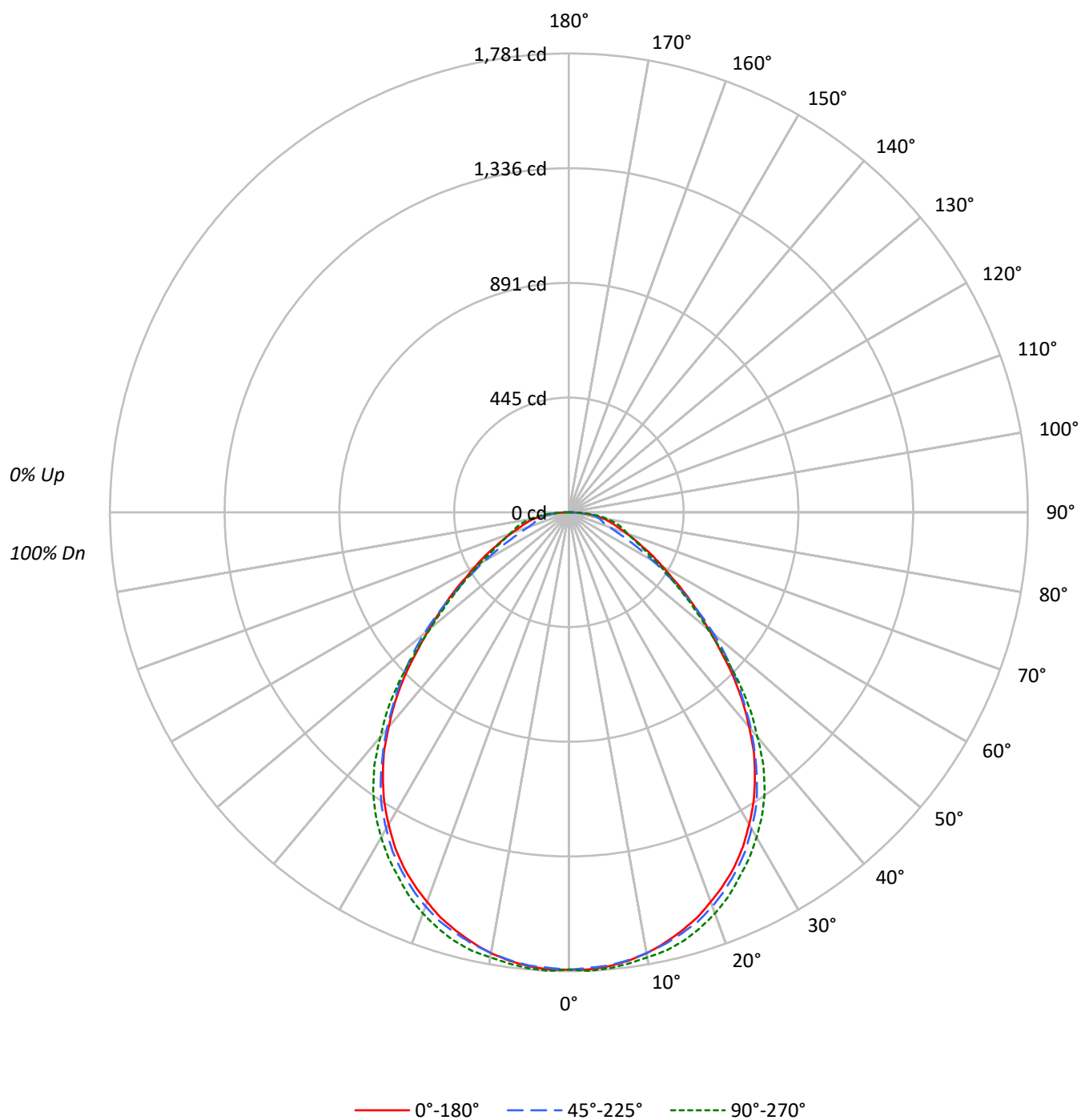
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5684	5684	5684
5°	5686	5677	5712
10°	5652	5649	5704
15°	5580	5610	5709
20°	5483	5548	5646
25°	5367	5427	5526
30°	5173	5243	5386
35°	4919	4975	5177
40°	4547	4597	4758
45°	4085	4159	4224
50°	3532	3657	3496
55°	3081	3001	2961
60°	2669	2403	2565
65°	2385	1887	2304
70°	2213	1563	2272
75°	2210	1652	2523
80°	2445	2080	2844
85°	2554	2252	3215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	4.3
10°-20°	478.4	12.3
20°-30°	707.5	18.3
30°-40°	798.4	20.6
40°-50°	703.8	18.2
50°-60°	482.8	12.5
60°-70°	284.9	7.4
70°-80°	177.8	4.6
80°-90°	74.1	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°	1353.9	34.9
0°-40°	2152.3	55.5
0°-60°	3338.9	86.1
0°-90°	3875.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1769	1765	1766	1772	1777	168
15°	1683	1685	1692	1713	1722	474
25°	1519	1524	1536	1556	1564	698
35°	1258	1269	1273	1303	1324	784
45°	902	906	918	924	933	693
55°	552	538	538	520	530	495
65°	315	277	249	288	304	317
75°	179	161	134	187	204	192
85°	70	65	61	80	88	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.0	1775.0	1775.0	1775.0	1775.0
2.5°	1775.9	1771.4	1769.6	1776.8	1781.3
5°	1768.7	1765.0	1766.0	1772.3	1776.8
7.5°	1756.0	1753.3	1753.3	1762.3	1766.9
10°	1738.0	1737.1	1737.1	1747.9	1754.2
12.5°	1712.7	1713.6	1717.2	1731.7	1742.5
15°	1683.0	1684.8	1692.0	1712.7	1721.8
17.5°	1650.5	1650.5	1664.9	1681.2	1692.0
20°	1609.0	1611.7	1627.9	1646.0	1656.8
22.5°	1566.6	1571.1	1584.6	1605.4	1615.3
25°	1518.8	1524.2	1535.9	1555.8	1563.9
27.5°	1462.9	1470.1	1482.7	1497.2	1514.3
30°	1398.8	1409.7	1417.8	1437.6	1456.6
32.5°	1334.0	1343.8	1352.8	1373.6	1395.2
35°	1258.2	1269.0	1272.6	1303.3	1324.1
37.5°	1180.6	1185.1	1186.9	1217.6	1240.2
40°	1087.7	1096.8	1099.5	1123.8	1138.2
42.5°	998.4	1002.0	1007.5	1025.5	1042.6
45°	901.9	906.4	918.2	923.6	932.6
47.5°	800.9	814.4	828.0	810.8	811.7
50°	708.9	719.7	734.1	701.7	701.7
52.5°	626.8	632.2	633.1	606.1	611.5
55°	551.9	538.4	537.5	519.5	530.3
57.5°	477.1	459.0	452.7	447.3	459.9
60°	416.7	384.3	375.2	383.3	400.5
62.5°	367.1	325.6	308.5	329.2	344.6
65°	314.8	276.9	249.0	287.7	304.0
67.5°	274.2	238.1	202.0	257.1	268.8
70°	236.3	208.4	166.9	233.6	242.6
72.5°	205.7	184.0	144.3	211.1	221.9
75°	178.6	160.6	133.5	186.7	203.9
77.5°	156.9	137.1	124.5	161.5	182.2
80°	132.6	112.8	112.8	135.3	154.2
82.5°	104.6	88.4	91.1	110.0	123.6
85°	69.5	64.9	61.3	80.3	87.5
87.5°	35.2	36.1	32.5	41.5	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)