

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: P257170

Luminaire Tested: **22GR-LD5-90-F125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257170
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-LD5-90-F125-UNV-L930-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7091.4 lumens
Efficiency: N/A
Efficacy: 82.5 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

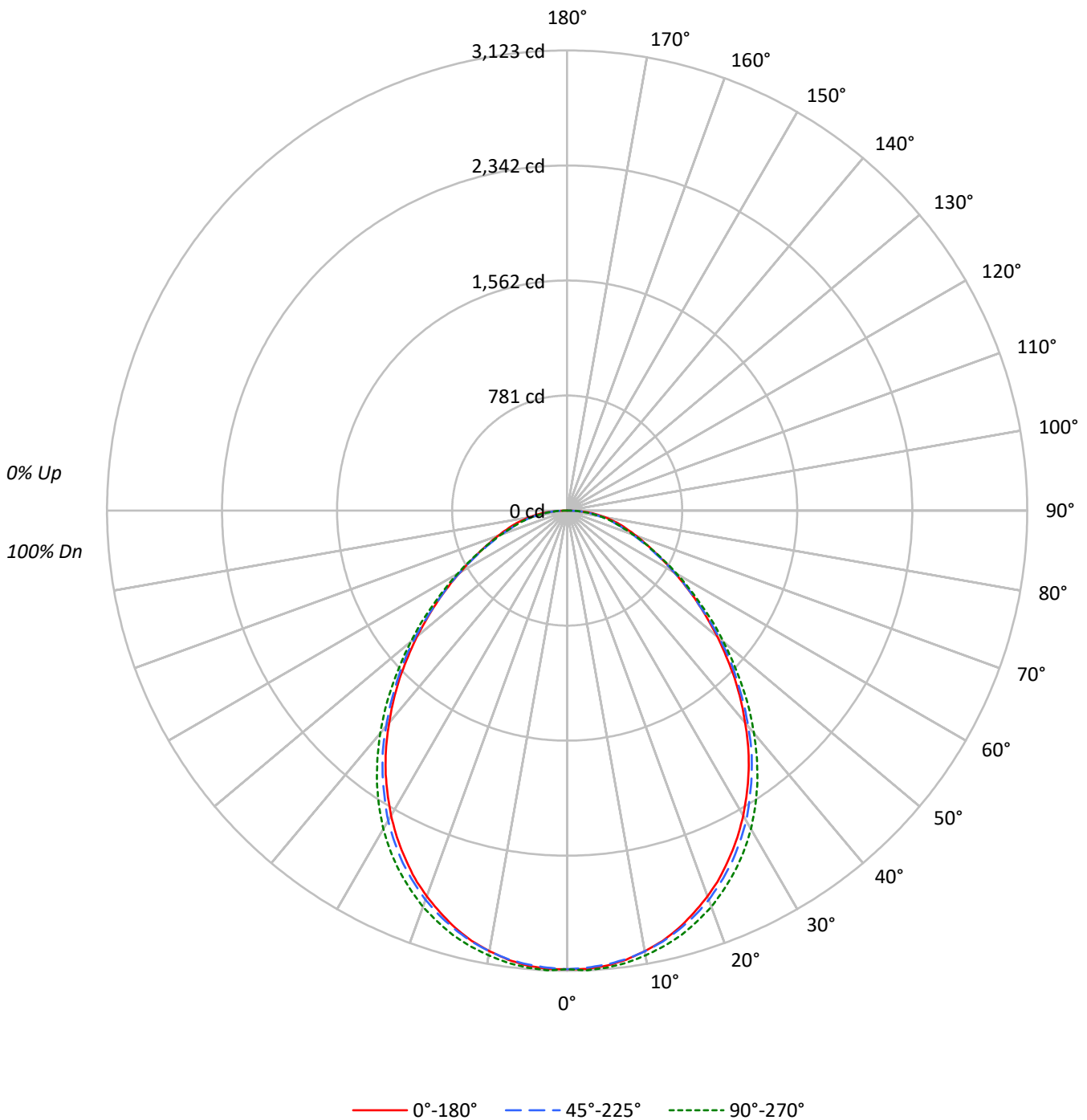
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9970	9970	9970
5°	9966	9939	10008
10°	9872	9877	9968
15°	9722	9754	9896
20°	9494	9578	9752
25°	9198	9326	9530
30°	8835	8987	9224
35°	8402	8536	8800
40°	7856	7987	8247
45°	7274	7385	7601
50°	6624	6730	6903
55°	5981	5999	6174
60°	5364	5385	5512
65°	4888	4788	4901
70°	4653	4391	4468
75°	4682	4235	4255
80°	4856	4279	4247
85°	5321	4534	4292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	4.1
10°-20°	830.8	11.7
20°-30°	1216.1	17.1
30°-40°	1367.3	19.3
40°-50°	1260.9	17.8
50°-60°	971.8	13.7
60°-70°	641.3	9.0
70°-80°	373.2	5.3
80°-90°	136.0	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°	2341.0	33.0
0°-40°	3708.3	52.3
0°-60°	5941.0	83.8
0°-90°	7091.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7091.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3113	3113	3113	3113	3113	
5°	3100	3093	3092	3107	3113	294
15°	2932	2932	2942	2968	2985	825
25°	2603	2616	2639	2676	2697	1197
35°	2149	2159	2184	2228	2251	1340
45°	1606	1608	1631	1664	1678	1237
55°	1071	1070	1074	1093	1106	961
65°	645	642	632	637	647	647
75°	378	362	342	336	344	399
85°	145	143	123	114	117	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3113.1	3113.1	3113.1	3113.1	3113.1
2.5°	3113.1	3106.6	3104.9	3116.5	3123.1
5°	3100.0	3093.4	3091.8	3106.6	3113.1
7.5°	3073.7	3068.8	3070.4	3086.8	3095.1
10°	3035.8	3034.2	3037.4	3055.6	3065.4
12.5°	2991.4	2989.7	2996.4	3016.0	3029.2
15°	2932.2	2932.2	2942.1	2968.4	2984.8
17.5°	2861.4	2866.3	2881.2	2907.5	2925.6
20°	2785.7	2790.6	2810.4	2840.0	2861.4
22.5°	2701.8	2708.4	2728.1	2764.3	2782.4
25°	2603.1	2616.2	2639.3	2675.5	2696.9
27.5°	2501.1	2515.8	2537.2	2581.7	2601.4
30°	2389.2	2399.1	2430.3	2471.5	2494.4
32.5°	2270.7	2280.6	2306.9	2356.3	2376.0
35°	2149.0	2158.8	2183.5	2227.9	2251.0
37.5°	2017.3	2025.6	2055.2	2089.7	2114.4
40°	1879.1	1890.6	1910.4	1951.5	1972.8
42.5°	1744.1	1749.1	1770.5	1811.6	1828.1
45°	1606.0	1607.6	1630.7	1663.5	1678.4
47.5°	1462.8	1466.1	1494.0	1513.8	1528.6
50°	1329.5	1331.2	1350.9	1369.0	1385.5
52.5°	1196.2	1196.2	1206.1	1225.8	1247.2
55°	1071.2	1069.5	1074.4	1092.6	1105.8
57.5°	952.7	951.0	957.7	969.2	979.0
60°	837.5	834.3	840.8	847.4	860.6
62.5°	735.5	738.8	730.5	740.5	750.3
65°	645.0	641.7	631.8	636.8	646.7
67.5°	567.7	562.8	546.3	549.6	561.1
70°	496.9	487.1	469.0	469.0	477.2
72.5°	432.7	422.9	399.8	401.5	404.8
75°	378.4	362.0	342.3	335.7	343.9
77.5°	319.2	306.0	288.0	283.0	286.3
80°	263.3	253.4	232.0	225.4	230.3
82.5°	208.9	200.7	176.1	171.1	172.8
85°	144.8	143.2	123.4	113.6	116.8
87.5°	77.3	79.0	64.2	57.6	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)