

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: P234139

Luminaire Tested: **22GR-LD5-90-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-A125-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7694.4 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

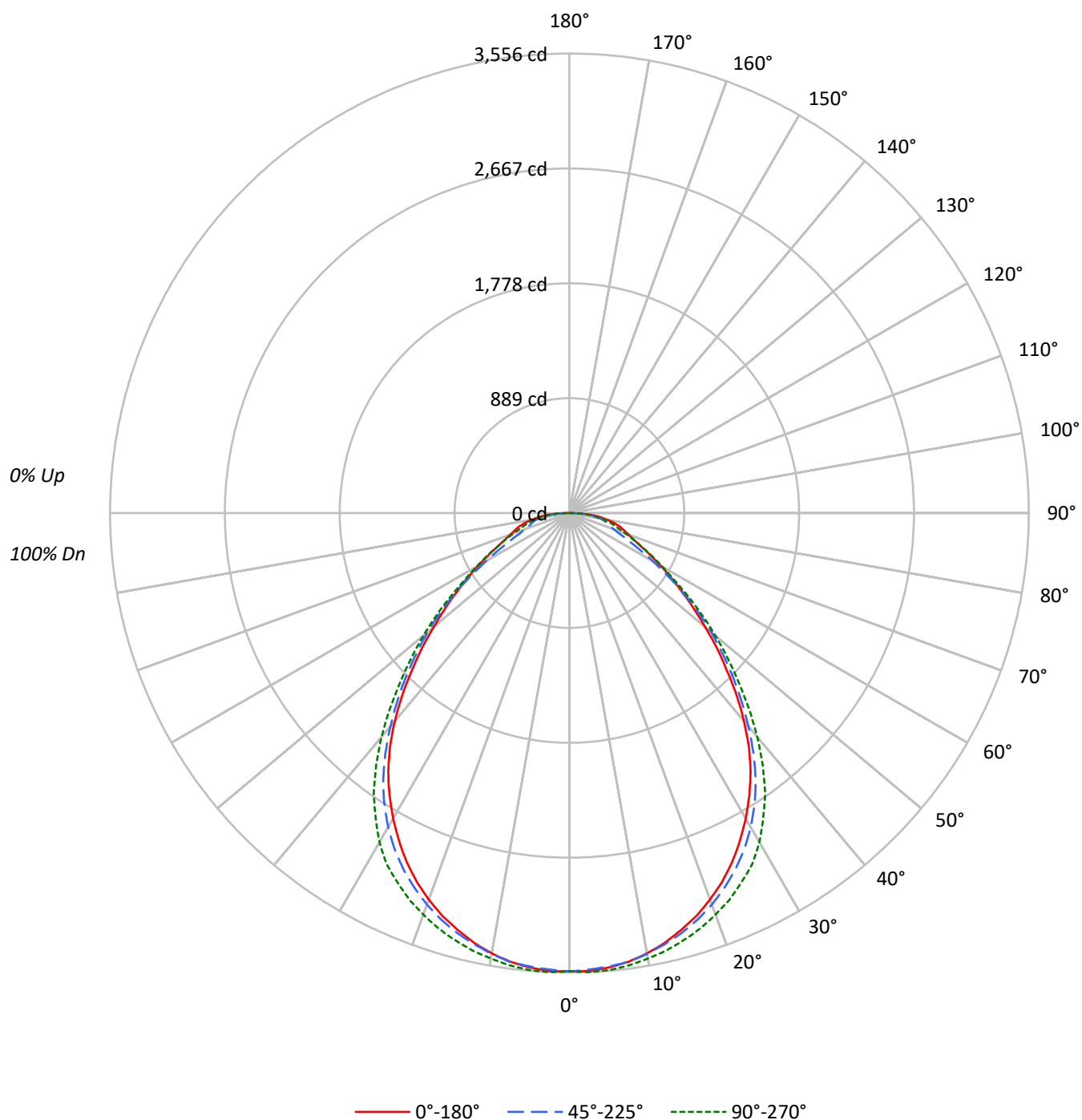
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	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
1	110	105	102	98	107	103	100	96		99	96	93		95	93	91		92	90	88
2	101	94	87	82	98	92	86	81		88	83	79		85	81	78		82	79	76
3	93	83	76	70	91	82	75	69		79	73	68		76	71	67		74	70	66
4	86	75	67	61	84	74	66	60		71	65	59		69	63	59		67	62	58
5	80	68	59	53	78	67	59	53		65	58	52		63	57	52		61	56	51
6	74	61	53	47	72	61	53	47		59	52	47		57	51	46		56	50	46
7	69	56	48	42	67	55	48	42		54	47	42		52	46	41		51	46	41
8	64	52	44	38	63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35	59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	37	32	55	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11358	11358	11358
5°	11350	11321	11413
10°	11253	11266	11382
15°	11075	11152	11343
20°	10846	10987	11268
25°	10529	10745	11138
30°	10091	10376	10873
35°	9560	9826	10324
40°	8790	9007	9457
45°	7808	8092	8385
50°	6820	7132	7347
55°	5930	6010	6230
60°	5217	4780	5320
65°	4635	3820	4663
70°	4553	3393	4300
75°	4973	3729	4395
80°	5459	4434	4697
85°	6526	5141	5273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	4.4
10°-20°	950.6	12.4
20°-30°	1403.3	18.2
30°-40°	1570.3	20.4
40°-50°	1379.0	17.9
50°-60°	975.7	12.7
60°-70°	567.9	7.4
70°-80°	354.0	4.6
80°-90°	158.4	2.1
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°	2689.1	34.9
0°-40°	4259.4	55.4
0°-60°	6614.1	86.0
0°-90°	7694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7694.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3547	3547	3547	3547	3547	
5°	3531	3522	3522	3540	3550	335
15°	3340	3348	3364	3400	3421	941
25°	2980	2992	3041	3113	3152	1369
35°	2445	2456	2513	2589	2641	1521
45°	1724	1744	1787	1830	1851	1333
55°	1062	1084	1076	1096	1116	960
65°	612	563	504	549	615	620
75°	402	346	301	309	355	420
85°	178	185	140	136	144	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3546.7	3546.7	3546.7	3546.7	3546.7
2.5°	3546.7	3539.6	3536.0	3548.5	3555.8
5°	3530.6	3521.6	3521.6	3539.6	3550.3
7.5°	3501.9	3492.9	3503.7	3519.8	3530.6
10°	3460.6	3457.0	3464.3	3485.8	3500.1
12.5°	3406.8	3408.6	3415.7	3449.9	3467.8
15°	3340.4	3347.6	3363.7	3399.7	3421.2
17.5°	3268.7	3274.0	3299.1	3340.4	3370.9
20°	3182.6	3193.4	3223.8	3275.8	3306.4
22.5°	3087.5	3100.0	3137.7	3200.5	3238.2
25°	2979.8	2992.4	3040.9	3112.6	3152.1
27.5°	2857.9	2877.6	2931.4	3010.3	3064.2
30°	2728.7	2744.9	2805.8	2895.5	2940.3
32.5°	2590.6	2610.3	2667.7	2753.8	2793.3
35°	2445.2	2456.0	2513.4	2588.8	2640.8
37.5°	2280.2	2285.5	2339.4	2409.4	2456.0
40°	2102.6	2106.1	2154.6	2221.0	2262.2
42.5°	1917.8	1919.6	1971.6	2021.9	2057.7
45°	1724.0	1743.7	1786.8	1829.9	1851.4
47.5°	1550.0	1564.3	1603.8	1641.5	1661.3
50°	1368.9	1404.7	1431.6	1451.3	1474.6
52.5°	1212.8	1243.2	1250.4	1273.7	1293.4
55°	1062.0	1083.6	1076.4	1096.2	1115.8
57.5°	934.6	923.9	900.6	934.6	959.8
60°	814.5	785.8	746.3	792.9	830.6
62.5°	706.8	660.2	611.7	658.4	721.2
65°	611.7	563.3	504.1	548.9	615.3
67.5°	540.0	489.8	419.8	464.7	531.0
70°	486.2	434.1	362.4	400.1	459.2
72.5°	443.2	387.5	324.7	349.8	400.1
75°	401.9	346.2	301.4	308.6	355.2
77.5°	353.5	312.2	276.3	272.7	308.6
80°	296.0	283.5	240.4	235.0	254.7
82.5°	244.0	238.6	197.4	192.0	199.2
85°	177.6	184.8	139.9	136.3	143.5
87.5°	93.3	102.3	73.5	77.1	78.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)