

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: P234118

Luminaire Tested: **22GR-LD5-90-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234118
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-LD5-90-A-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7619.4 lumens
Efficiency: N/A
Efficacy: 88.7 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

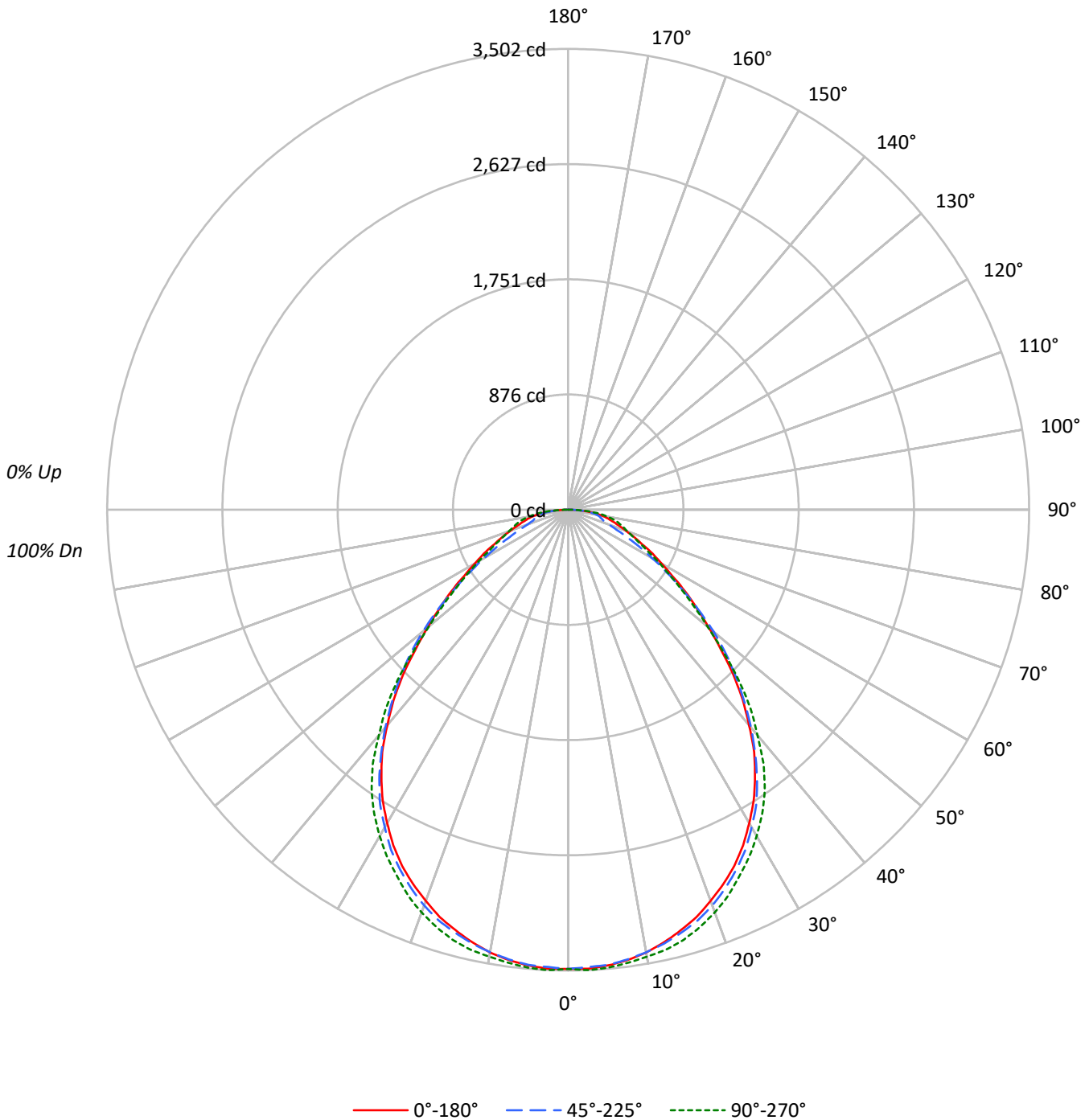
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11175	11175	11175
5°	11178	11161	11229
10°	11111	11105	11214
15°	10969	11028	11222
20°	10780	10907	11100
25°	10551	10670	10864
30°	10169	10307	10589
35°	9670	9781	10176
40°	8939	9036	9354
45°	8030	8175	8303
50°	6944	7191	6873
55°	6059	5900	5821
60°	5246	4724	5043
65°	4689	3708	4528
70°	4349	3071	4465
75°	4343	3247	4958
80°	4806	4087	5592
85°	5016	4428	6320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	4.3
10°-20°	940.5	12.3
20°-30°	1390.9	18.3
30°-40°	1569.6	20.6
40°-50°	1383.7	18.2
50°-60°	949.2	12.5
60°-70°	560.1	7.4
70°-80°	349.5	4.6
80°-90°	145.7	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°	2661.6	34.9
0°-40°	4231.2	55.5
0°-60°	6564.0	86.1
0°-90°	7619.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7619.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3489	3489	3489	3489	3489	
5°	3477	3470	3472	3484	3493	330
15°	3308	3312	3326	3367	3385	933
25°	2986	2996	3020	3059	3074	1371
35°	2473	2495	2502	2562	2603	1541
45°	1773	1782	1805	1816	1833	1362
55°	1085	1058	1057	1021	1043	973
65°	619	544	489	566	598	623
75°	351	316	262	367	401	376
85°	136	128	120	158	172	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3489.4	3489.4	3489.4	3489.4	3489.4
2.5°	3491.2	3482.3	3478.8	3493.0	3501.8
5°	3477.0	3469.9	3471.7	3484.1	3493.0
7.5°	3452.2	3446.8	3446.8	3464.6	3473.4
10°	3416.7	3415.0	3415.0	3436.2	3448.6
12.5°	3367.1	3368.8	3375.9	3404.3	3425.6
15°	3308.5	3312.1	3326.3	3367.1	3384.8
17.5°	3244.7	3244.7	3273.1	3305.0	3326.3
20°	3163.2	3168.5	3200.4	3235.9	3257.1
22.5°	3079.8	3088.7	3115.2	3156.0	3175.6
25°	2985.9	2996.5	3019.5	3058.6	3074.5
27.5°	2875.9	2890.1	2914.9	2943.3	2977.0
30°	2750.0	2771.3	2787.2	2826.2	2863.5
32.5°	2622.3	2641.9	2659.6	2700.4	2743.0
35°	2473.4	2494.8	2501.8	2562.1	2602.9
37.5°	2320.9	2329.8	2333.3	2393.7	2438.0
40°	2138.3	2156.0	2161.4	2209.2	2237.6
42.5°	1962.8	1969.9	1980.5	2015.9	2049.7
45°	1773.1	1781.9	1805.0	1815.6	1833.4
47.5°	1574.5	1601.1	1627.7	1594.0	1595.8
50°	1393.7	1414.9	1443.3	1379.5	1379.5
52.5°	1232.2	1243.0	1244.7	1191.5	1202.2
55°	1085.1	1058.5	1056.7	1021.3	1042.6
57.5°	938.0	902.5	890.1	879.4	904.2
60°	819.1	755.3	737.6	753.5	787.3
62.5°	721.6	640.0	606.4	647.2	677.3
65°	618.8	544.3	489.3	565.6	597.6
67.5°	539.0	468.1	397.2	505.3	528.4
70°	464.5	409.6	328.0	459.3	476.9
72.5°	404.3	361.7	283.7	414.9	436.1
75°	351.0	315.6	262.4	367.0	400.7
77.5°	308.6	269.5	244.7	317.4	358.2
80°	260.6	221.6	221.6	266.0	303.2
82.5°	205.7	173.7	179.1	216.3	242.9
85°	136.5	127.7	120.5	157.8	172.0
87.5°	69.2	70.9	63.8	81.6	83.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)