

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: P234100

Luminaire Tested: **22GR-LD5-90-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234100
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-F1-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9000.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

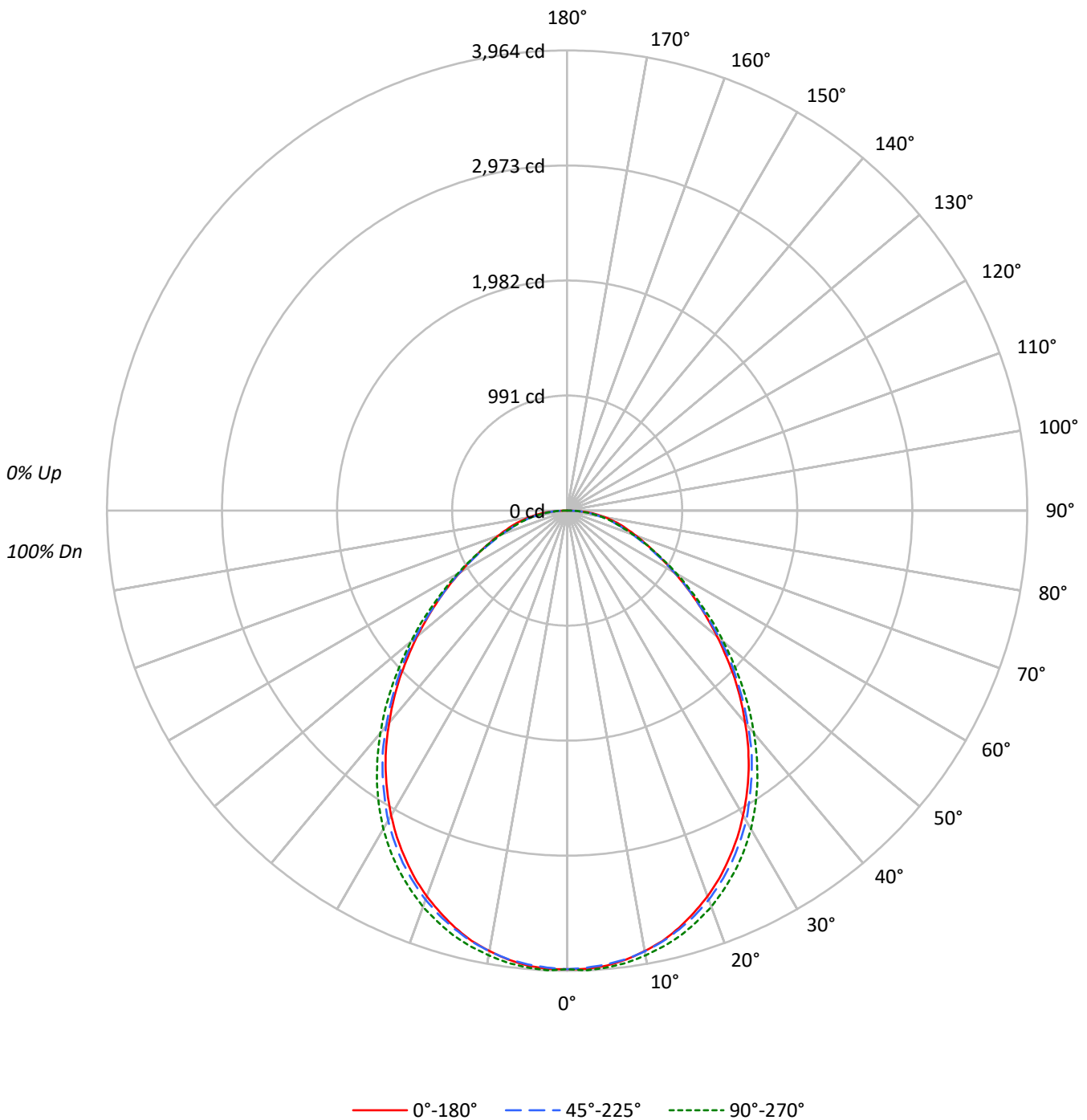
Input Watts (W): 85.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12653	12653	12653
5°	12648	12614	12701
10°	12529	12536	12651
15°	12338	12379	12559
20°	12049	12155	12376
25°	11674	11836	12094
30°	11213	11406	11707
35°	10662	10834	11169
40°	9970	10136	10468
45°	9231	9373	9647
50°	8406	8541	8760
55°	7590	7613	7835
60°	6808	6835	6996
65°	6203	6077	6219
70°	5905	5572	5671
75°	5943	5374	5400
80°	6163	5431	5393
85°	6750	5754	5446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	4.1
10°-20°	1054.5	11.7
20°-30°	1543.3	17.1
30°-40°	1735.2	19.3
40°-50°	1600.2	17.8
50°-60°	1233.3	13.7
60°-70°	813.8	9.0
70°-80°	473.7	5.3
80°-90°	172.6	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°	2971.1	33.0
0°-40°	4706.3	52.3
0°-60°	7539.9	83.8
0°-90°	9000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3951	3951	3951	3951	3951	
5°	3934	3926	3924	3943	3951	373
15°	3721	3721	3734	3767	3788	1047
25°	3304	3320	3350	3396	3423	1520
35°	2727	2740	2771	2828	2857	1700
45°	2038	2040	2070	2111	2130	1569
55°	1359	1357	1364	1387	1403	1220
65°	819	814	802	808	821	821
75°	480	460	434	426	436	506
85°	184	182	157	144	148	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3951.0	3951.0	3951.0	3951.0	3951.0
2.5°	3951.0	3942.7	3940.6	3955.2	3963.6
5°	3934.3	3926.0	3923.9	3942.7	3951.0
7.5°	3900.9	3894.6	3896.7	3917.6	3928.1
10°	3852.8	3850.8	3854.9	3878.0	3890.4
12.5°	3796.5	3794.4	3802.8	3827.8	3844.6
15°	3721.4	3721.4	3733.8	3767.3	3788.1
17.5°	3631.5	3637.8	3656.6	3690.0	3713.0
20°	3535.4	3541.7	3566.7	3604.4	3631.5
22.5°	3429.0	3437.3	3462.4	3508.3	3531.3
25°	3303.7	3320.4	3349.6	3395.6	3422.7
27.5°	3174.2	3193.0	3220.1	3276.5	3301.6
30°	3032.2	3044.7	3084.4	3136.6	3165.8
32.5°	2881.8	2894.3	2927.7	2990.4	3015.5
35°	2727.3	2739.8	2771.1	2827.6	2856.8
37.5°	2560.2	2570.7	2608.2	2652.1	2683.4
40°	2384.8	2399.4	2424.5	2476.7	2503.9
42.5°	2213.6	2219.9	2247.0	2299.2	2320.0
45°	2038.1	2040.2	2069.5	2111.3	2130.0
47.5°	1856.5	1860.7	1896.2	1921.2	1940.0
50°	1687.3	1689.4	1714.4	1737.5	1758.3
52.5°	1518.2	1518.2	1530.7	1555.7	1582.9
55°	1359.4	1357.4	1363.6	1386.7	1403.3
57.5°	1209.1	1207.0	1215.4	1230.0	1242.5
60°	1063.0	1058.8	1067.2	1075.4	1092.2
62.5°	933.5	937.7	927.2	939.8	952.2
65°	818.6	814.4	801.9	808.2	820.7
67.5°	720.4	714.2	693.3	697.5	712.1
70°	630.6	618.2	595.1	595.1	605.6
72.5°	549.2	536.7	507.4	509.5	513.7
75°	480.3	459.5	434.3	426.0	436.4
77.5°	405.1	388.4	365.5	359.2	363.4
80°	334.2	321.6	294.5	286.1	292.4
82.5°	265.2	254.8	223.4	217.2	219.3
85°	183.7	181.6	156.6	144.1	148.2
87.5°	98.2	100.3	81.4	73.1	77.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)