

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: P231827

Luminaire Tested: **24GR-LD5-120-A125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-A125-UNV-L950-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12295.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

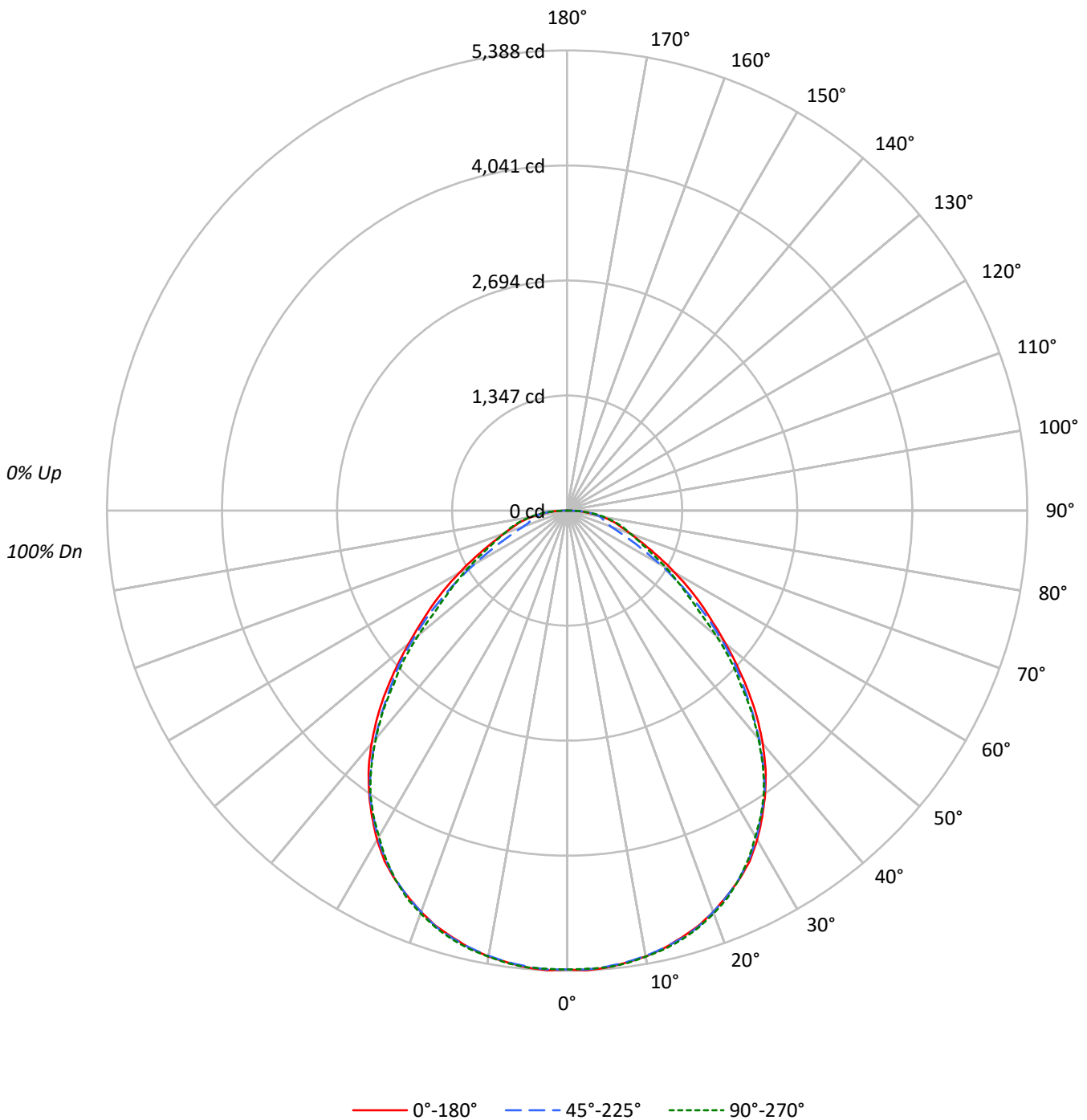
Input Watts (W): 90.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8229	8229	8229
5°	8257	8239	8254
10°	8245	8233	8248
15°	8206	8221	8242
20°	8150	8150	8182
25°	8058	8042	8049
30°	7870	7829	7792
35°	7560	7539	7510
40°	7121	6991	6960
45°	6515	6336	6219
50°	5759	5644	5425
55°	5122	4773	4589
60°	4459	3819	4095
65°	3851	2961	3622
70°	3513	2422	3505
75°	3541	2611	3723
80°	3688	3401	3925
85°	3843	4044	4348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	4.1
10°-20°	1461.6	11.9
20°-30°	2187.8	17.8
30°-40°	2500.0	20.3
40°-50°	2260.2	18.4
50°-60°	1626.1	13.2
60°-70°	942.7	7.7
70°-80°	559.2	4.5
80°-90°	247.7	2.0
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°	4159.1	33.8
0°-40°	6659.1	54.2
0°-60°	10545.4	85.8
0°-90°	12295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5372	5372	5372	5372	5372	
5°	5370	5363	5359	5351	5369	510
15°	5175	5184	5184	5179	5198	1461
25°	4768	4763	4759	4749	4763	2192
35°	4043	4024	4032	3982	4016	2521
45°	3008	2956	2925	2898	2871	2310
55°	1918	1882	1788	1742	1719	1716
65°	1063	944	817	913	999	1073
75°	598	501	441	545	629	633
85°	219	236	230	265	247	234
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5372.5	5372.5	5372.5	5372.5	5372.5
2.5°	5387.8	5368.6	5378.3	5372.5	5370.5
5°	5370.5	5362.9	5359.1	5351.4	5368.6
7.5°	5336.1	5330.3	5332.2	5334.1	5345.6
10°	5301.6	5291.9	5293.8	5297.7	5303.5
12.5°	5247.8	5242.1	5244.0	5247.8	5261.3
15°	5174.9	5184.5	5184.5	5178.8	5197.9
17.5°	5102.0	5100.1	5109.7	5092.5	5119.3
20°	5000.4	5002.3	5000.4	5002.3	5019.6
22.5°	4885.3	4894.9	4889.2	4889.2	4908.4
25°	4768.3	4762.6	4758.8	4749.1	4762.6
27.5°	4628.3	4616.8	4607.1	4588.0	4597.6
30°	4449.9	4451.8	4426.9	4409.6	4405.8
32.5°	4250.4	4250.4	4227.4	4214.0	4225.5
35°	4043.3	4024.1	4031.8	3981.9	4016.5
37.5°	3818.9	3788.1	3770.9	3753.7	3765.1
40°	3561.8	3521.5	3496.6	3462.1	3481.3
42.5°	3291.4	3241.5	3210.8	3185.9	3193.6
45°	3007.6	2955.8	2925.0	2898.2	2871.3
47.5°	2708.3	2675.7	2660.4	2625.8	2595.1
50°	2416.8	2405.2	2368.8	2340.1	2276.7
52.5°	2150.1	2140.6	2083.0	2035.0	1954.5
55°	1918.1	1881.6	1787.6	1741.6	1718.6
57.5°	1682.1	1622.7	1509.5	1503.8	1519.1
60°	1455.8	1382.9	1246.7	1277.5	1336.9
62.5°	1250.6	1141.2	1010.8	1083.7	1154.7
65°	1062.6	943.7	817.1	913.0	999.3
67.5°	907.3	788.3	657.9	786.4	886.2
70°	784.5	663.7	540.9	688.6	782.6
72.5°	682.9	573.5	471.8	611.9	709.7
75°	598.4	500.6	441.2	544.7	629.1
77.5°	514.1	435.4	422.0	485.3	537.1
80°	418.1	381.7	385.6	425.8	445.0
82.5°	312.7	314.6	324.1	356.7	349.1
85°	218.7	236.0	230.1	264.7	247.4
87.5°	120.8	132.3	124.7	151.5	136.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)