

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: P231824

Luminaire Tested: **24GR-LD5-120-A125-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231824
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-L930-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9689.1 lumens
Efficiency: N/A
Efficacy: 107.5 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

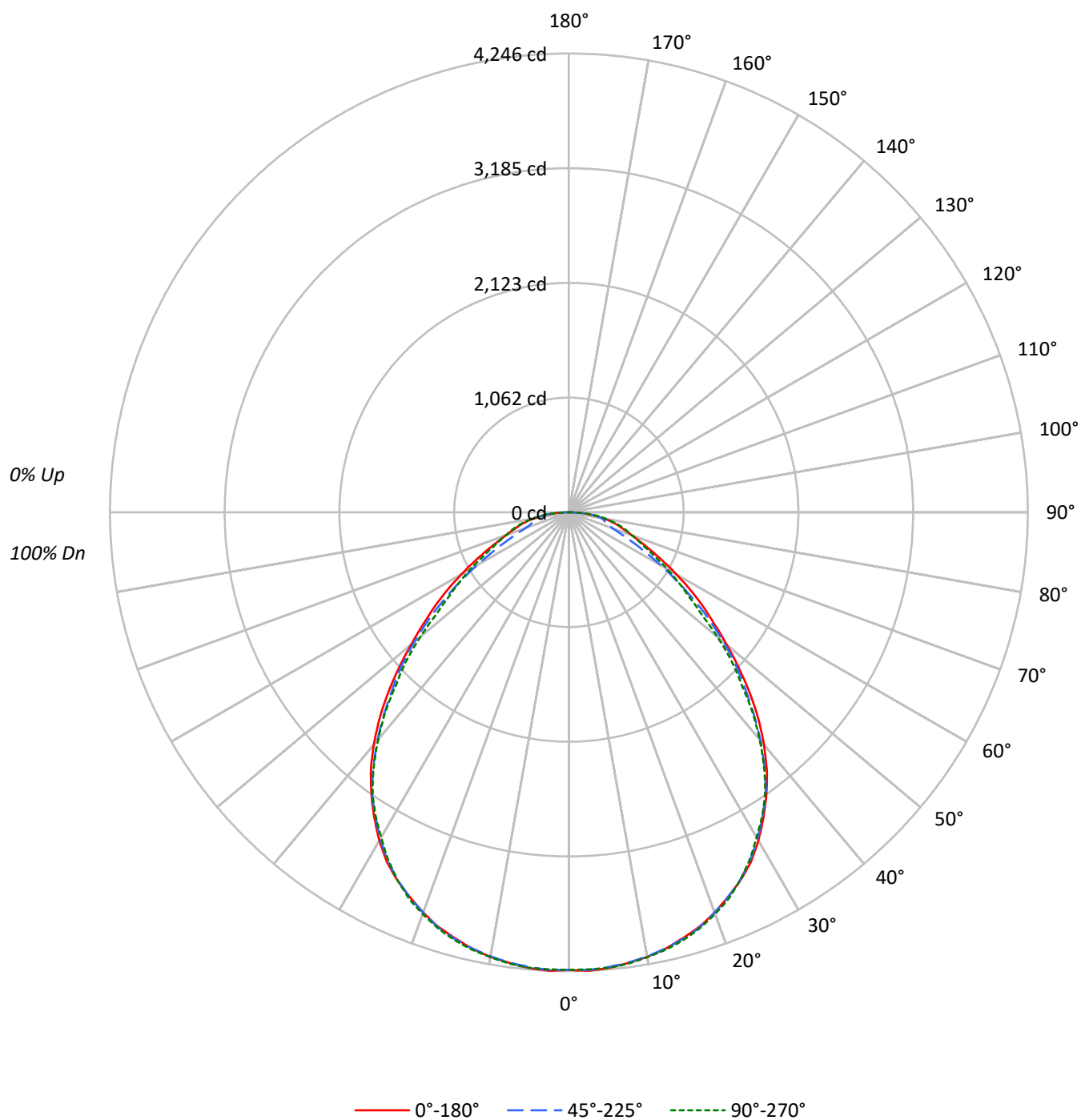
Input Watts (W): 90.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	6485	6485	6485
5°	6507	6493	6505
10°	6498	6488	6500
15°	6466	6478	6495
20°	6423	6423	6447
25°	6350	6338	6343
30°	6202	6170	6140
35°	5958	5941	5918
40°	5612	5509	5485
45°	5134	4993	4901
50°	4538	4448	4275
55°	4036	3762	3616
60°	3514	3010	3227
65°	3035	2334	2854
70°	2768	1909	2762
75°	2791	2058	2934
80°	2906	2680	3093
85°	3028	3188	3427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.6	4.1
10°-20°	1151.8	11.9
20°-30°	1724.1	17.8
30°-40°	1970.1	20.3
40°-50°	1781.2	18.4
50°-60°	1281.5	13.2
60°-70°	742.9	7.7
70°-80°	440.7	4.5
80°-90°	195.2	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°	3277.6	33.8
0°-40°	5247.7	54.2
0°-60°	8310.4	85.8
0°-90°	9689.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9689.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4234	4234	4234	4234	4234	
5°	4232	4226	4223	4217	4231	402
15°	4078	4086	4086	4081	4096	1151
25°	3758	3753	3750	3743	3753	1728
35°	3186	3171	3177	3138	3165	1986
45°	2370	2329	2305	2284	2263	1821
55°	1512	1483	1409	1372	1354	1352
65°	837	744	644	720	788	845
75°	472	394	348	429	496	498
85°	172	186	181	209	195	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4233.8	4233.8	4233.8	4233.8	4233.8
2.5°	4245.9	4230.8	4238.3	4233.8	4232.3
5°	4232.3	4226.3	4223.2	4217.2	4230.8
7.5°	4205.1	4200.5	4202.1	4203.6	4212.7
10°	4177.9	4170.4	4171.8	4174.9	4179.4
12.5°	4135.6	4131.0	4132.6	4135.6	4146.2
15°	4078.1	4085.6	4085.6	4081.1	4096.2
17.5°	4020.7	4019.1	4026.7	4013.2	4034.3
20°	3940.6	3942.1	3940.6	3942.1	3955.7
22.5°	3849.9	3857.4	3852.9	3852.9	3868.0
25°	3757.6	3753.1	3750.1	3742.6	3753.1
27.5°	3647.4	3638.3	3630.7	3615.6	3623.2
30°	3506.7	3508.3	3488.6	3475.0	3472.0
32.5°	3349.5	3349.5	3331.4	3320.8	3329.9
35°	3186.4	3171.2	3177.3	3138.0	3165.1
37.5°	3009.5	2985.3	2971.7	2958.1	2967.2
40°	2806.9	2775.2	2755.5	2728.3	2743.5
42.5°	2593.8	2554.5	2530.3	2510.7	2516.7
45°	2370.0	2329.3	2305.1	2283.9	2262.8
47.5°	2134.3	2108.6	2096.5	2069.3	2045.1
50°	1904.5	1895.4	1866.7	1844.1	1794.2
52.5°	1694.4	1686.9	1641.6	1603.8	1540.3
55°	1511.5	1482.8	1408.8	1372.4	1354.3
57.5°	1325.6	1278.8	1189.6	1185.1	1197.1
60°	1147.3	1089.8	982.5	1006.7	1053.5
62.5°	985.6	899.4	796.5	854.0	910.0
65°	837.4	743.7	643.9	719.5	787.5
67.5°	715.0	621.2	518.5	619.8	698.3
70°	618.2	523.0	426.2	542.7	616.7
72.5°	538.1	452.0	371.9	482.2	559.2
75°	471.6	394.5	347.7	429.3	495.8
77.5°	405.1	343.1	332.5	382.4	423.2
80°	329.5	300.8	303.8	335.5	350.7
82.5°	246.4	247.9	255.4	281.2	275.1
85°	172.3	185.9	181.4	208.6	195.0
87.5°	95.2	104.3	98.2	119.4	107.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)