

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: P231823

Luminaire Tested: **24GR-LD5-100-A125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231823
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-LD5-100-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: 10059.1 lumens
Efficiency: N/A
Efficacy: 140.3 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

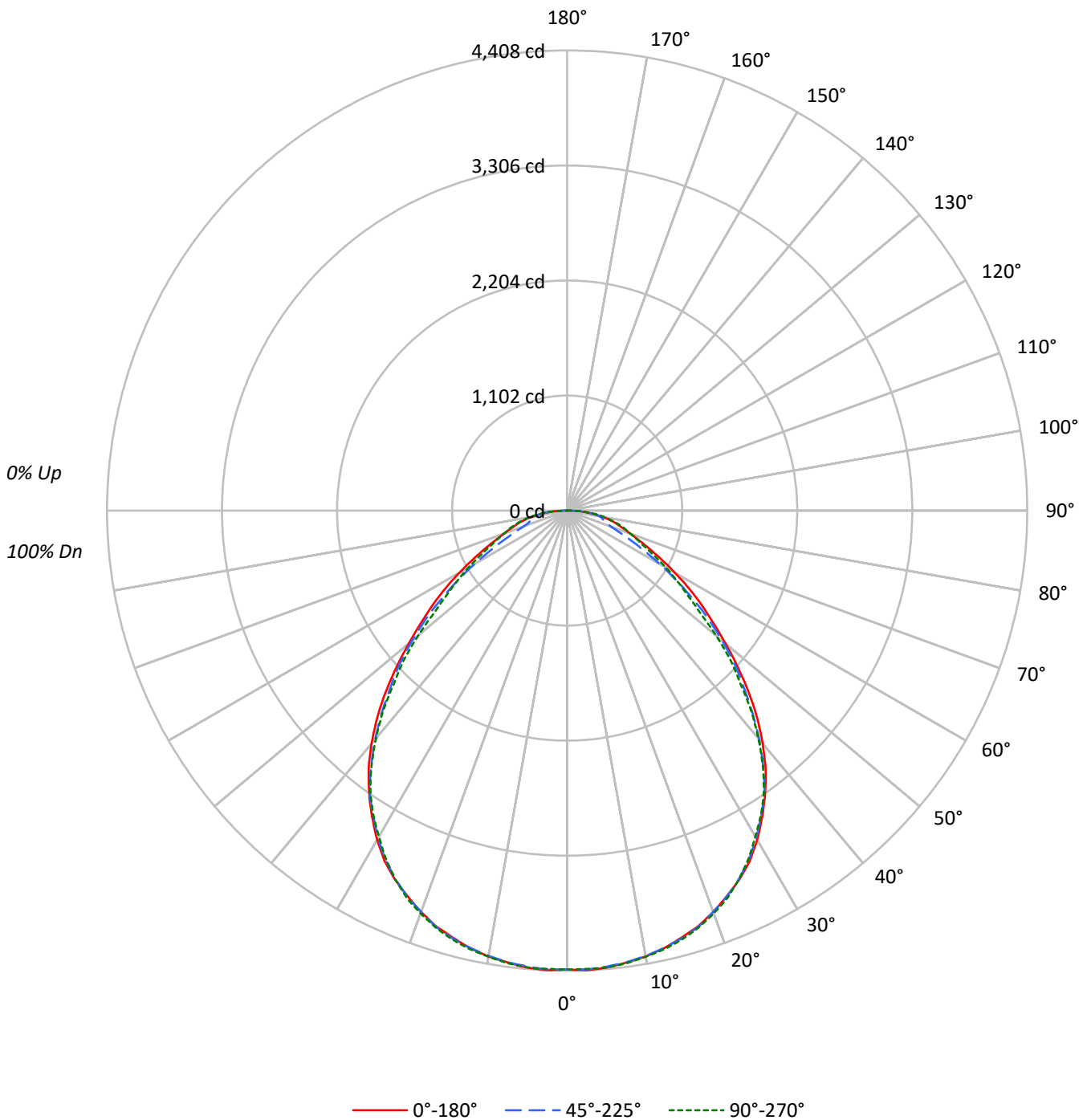
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6732	6732	6732
5°	6756	6741	6753
10°	6746	6736	6748
15°	6714	6726	6743
20°	6668	6668	6694
25°	6593	6580	6585
30°	6439	6406	6375
35°	6185	6168	6144
40°	5826	5720	5695
45°	5330	5184	5088
50°	4711	4618	4438
55°	4191	3906	3754
60°	3649	3125	3350
65°	3151	2423	2963
70°	2874	1982	2867
75°	2897	2136	3046
80°	3017	2782	3211
85°	3144	3309	3559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	4.1
10°-20°	1195.8	11.9
20°-30°	1790.0	17.8
30°-40°	2045.4	20.3
40°-50°	1849.2	18.4
50°-60°	1330.4	13.2
60°-70°	771.3	7.7
70°-80°	457.5	4.5
80°-90°	202.6	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°	3402.7	33.8
0°-40°	5448.1	54.2
0°-60°	8627.7	85.8
0°-90°	10059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10059.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4396	4396	4396	4396	4396	
5°	4394	4388	4384	4378	4392	417
15°	4234	4242	4242	4237	4253	1195
25°	3901	3896	3893	3886	3896	1794
35°	3308	3292	3299	3258	3286	2062
45°	2461	2418	2393	2371	2349	1890
55°	1569	1539	1463	1425	1406	1404
65°	869	772	668	747	818	878
75°	490	410	361	446	515	517
85°	179	193	188	217	202	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	4408.0	4392.4	4400.2	4395.5	4393.9
5°	4393.9	4387.7	4384.5	4378.2	4392.4
7.5°	4365.6	4361.0	4362.5	4364.1	4373.6
10°	4337.4	4329.6	4331.1	4334.3	4339.0
12.5°	4293.5	4288.8	4290.4	4293.5	4304.5
15°	4233.9	4241.7	4241.7	4237.0	4252.7
17.5°	4174.3	4172.6	4180.5	4166.3	4188.4
20°	4091.1	4092.6	4091.1	4092.6	4106.7
22.5°	3996.9	4004.7	4000.0	4000.0	4015.7
25°	3901.2	3896.4	3893.3	3885.5	3896.4
27.5°	3786.6	3777.2	3769.4	3753.7	3761.5
30°	3640.6	3642.3	3621.9	3607.7	3604.6
32.5°	3477.5	3477.5	3458.6	3447.6	3457.1
35°	3308.0	3292.3	3298.6	3257.8	3286.0
37.5°	3124.4	3099.3	3085.2	3071.1	3080.4
40°	2914.1	2881.2	2860.8	2832.6	2848.2
42.5°	2692.9	2652.0	2626.9	2606.5	2612.8
45°	2460.6	2418.2	2393.1	2371.2	2349.2
47.5°	2215.8	2189.1	2176.5	2148.3	2123.2
50°	1977.2	1967.9	1938.0	1914.5	1862.7
52.5°	1759.1	1751.3	1704.2	1665.0	1599.1
55°	1569.3	1539.4	1462.6	1424.9	1406.0
57.5°	1376.3	1327.6	1235.1	1230.3	1242.9
60°	1191.1	1131.4	1020.0	1045.1	1093.7
62.5°	1023.1	933.8	827.0	886.6	944.7
65°	869.4	772.0	668.5	746.9	817.5
67.5°	742.3	645.0	538.3	643.4	725.0
70°	641.8	543.0	442.5	563.4	640.3
72.5°	558.6	469.2	386.0	500.6	580.7
75°	489.6	409.6	360.9	445.6	514.7
77.5°	420.6	356.3	345.3	397.0	439.3
80°	342.1	312.3	315.4	348.3	364.1
82.5°	255.8	257.3	265.2	291.8	285.6
85°	178.9	193.0	188.3	216.6	202.5
87.5°	98.8	108.3	102.0	123.9	111.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)