

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: P231808

Luminaire Tested: **24GR-LD5-150-A-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-A-UNV-L930-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12242.6 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

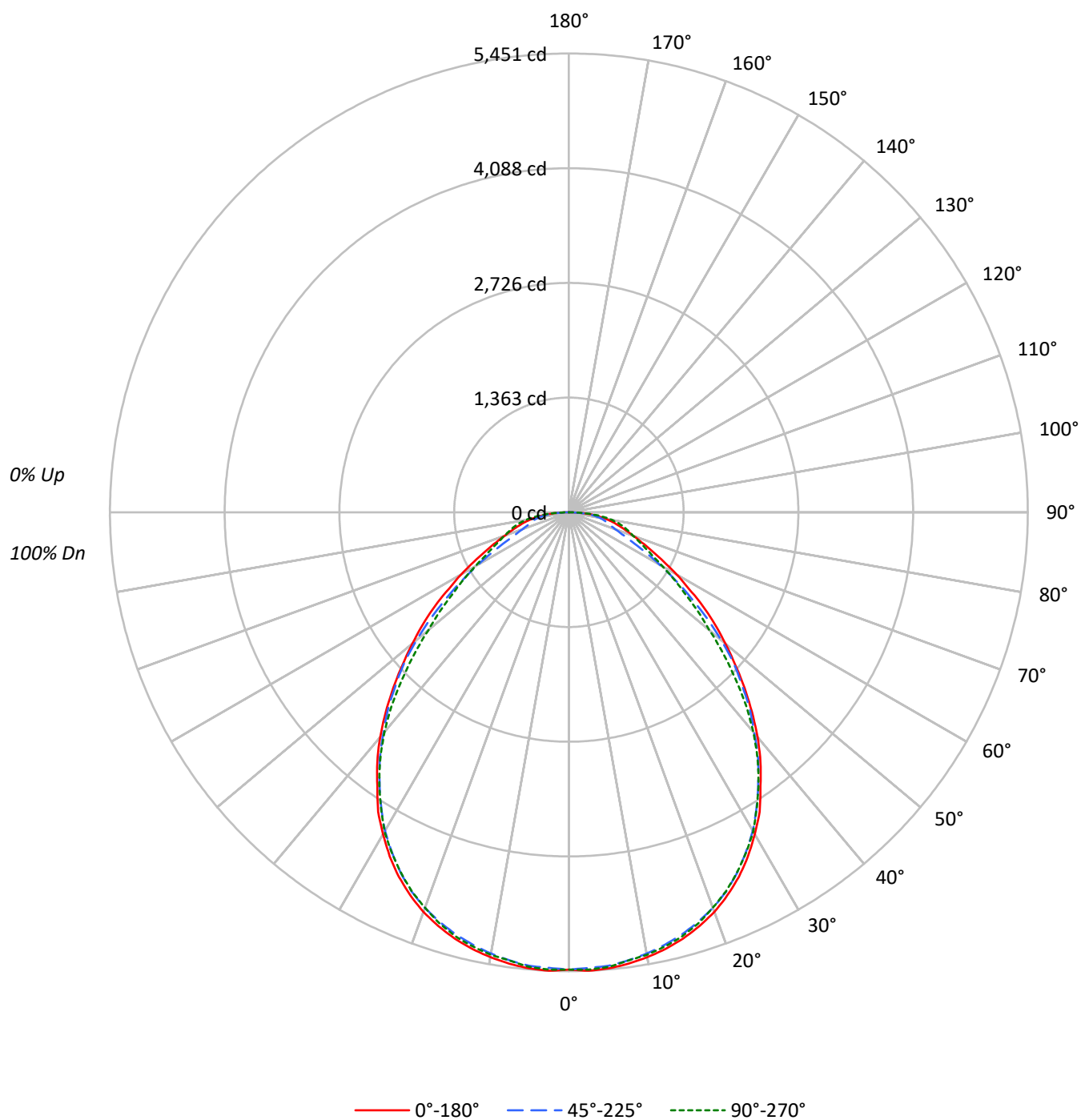
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	98	107	103	99	96		99	96	93			95	93	90			91
2	101	93	87	82	98	91	86	81		88	83	79			85	81	77			82
3	93	83	75	69	90	81	74	69		79	73	68			76	71	67			73
4	86	74	66	60	83	73	65	60		71	64	59			68	63	58			66
5	79	67	59	53	77	66	58	52		64	57	52			62	56	51			60
6	73	61	53	46	72	60	52	46		58	51	46			57	50	45			55
7	68	56	47	42	67	55	47	41		53	46	41			52	46	41			51
8	64	51	43	37	62	50	43	37		49	42	37			48	41	37			47
9	60	47	39	34	58	46	39	34		45	38	34			44	38	33			43
10	56	44	36	31	55	43	36	31		42	35	31			41	35	31			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8320	8320	8320
5°	8360	8314	8334
10°	8345	8277	8301
15°	8313	8229	8265
20°	8234	8151	8148
25°	8074	7987	7981
30°	7807	7727	7743
35°	7416	7331	7341
40°	6973	6852	6811
45°	6391	6305	6055
50°	5778	5620	5196
55°	5187	4722	4480
60°	4542	3801	3940
65°	3962	2988	3626
70°	3625	2609	3625
75°	3626	2775	3996
80°	3936	3270	4555
85°	4320	3689	4887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.4	4.2
10°-20°	1468.0	12.0
20°-30°	2176.7	17.8
30°-40°	2455.5	20.1
40°-50°	2224.0	18.2
50°-60°	1604.5	13.1
60°-70°	958.0	7.8
70°-80°	592.1	4.8
80°-90°	249.4	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°	4159.0	34.0
0°-40°	6614.5	54.0
0°-60°	10443.0	85.3
0°-90°	12242.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12242.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5432	5432	5432	5432	5432	
5°	5438	5430	5407	5402	5420	517
15°	5243	5211	5190	5192	5212	1478
25°	4778	4751	4726	4709	4723	2195
35°	3966	3960	3921	3923	3926	2482
45°	2950	2932	2911	2839	2795	2274
55°	1942	1882	1768	1681	1678	1734
65°	1093	963	825	936	1000	1100
75°	613	531	469	584	675	654
85°	246	216	210	274	278	257
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5431.9	5431.9	5431.9	5431.9	5431.9
2.5°	5450.8	5435.7	5416.8	5428.2	5437.6
5°	5437.6	5430.0	5407.3	5401.7	5420.5
7.5°	5409.2	5390.3	5369.5	5379.0	5371.4
10°	5365.7	5348.7	5322.2	5324.1	5337.3
12.5°	5312.8	5292.0	5263.6	5271.1	5282.5
15°	5242.8	5210.6	5189.8	5191.7	5212.5
17.5°	5153.9	5129.3	5102.8	5108.5	5117.9
20°	5051.8	5038.5	5000.7	4989.3	4998.8
22.5°	4923.1	4898.5	4877.8	4872.0	4874.0
25°	4777.5	4751.0	4726.4	4709.4	4722.6
27.5°	4607.3	4584.6	4552.4	4546.7	4558.1
30°	4414.4	4397.3	4369.0	4361.4	4378.4
32.5°	4217.7	4189.3	4149.6	4149.6	4153.4
35°	3966.1	3960.4	3920.7	3922.6	3926.4
37.5°	3739.2	3712.7	3690.0	3667.3	3678.6
40°	3487.6	3457.4	3427.1	3411.9	3406.3
42.5°	3217.2	3194.5	3181.2	3126.3	3113.1
45°	2950.4	2931.6	2910.8	2838.9	2795.4
47.5°	2678.1	2674.3	2657.3	2530.6	2487.1
50°	2424.7	2419.0	2358.5	2224.2	2180.7
52.5°	2184.5	2146.7	2067.2	1934.8	1927.2
55°	1942.4	1881.9	1768.4	1681.4	1677.6
57.5°	1687.1	1615.2	1499.9	1452.5	1477.1
60°	1482.8	1373.1	1240.7	1246.4	1286.1
62.5°	1271.0	1148.0	1017.5	1074.3	1121.6
65°	1093.2	962.7	824.6	936.2	1000.5
67.5°	938.1	817.0	684.7	834.1	896.5
70°	809.5	711.1	582.5	739.5	809.5
72.5°	707.3	616.6	516.4	663.9	745.2
75°	612.8	531.4	469.0	584.4	675.2
77.5°	531.4	452.1	423.7	516.4	605.2
80°	446.3	374.5	370.7	450.1	516.4
82.5°	348.0	298.8	298.8	376.4	416.1
85°	245.8	215.6	209.9	274.2	278.1
87.5°	126.7	121.0	109.7	143.7	143.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)