

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: P231836

Luminaire Tested: **24GR-LD5-180-A125-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231836
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-LD5-180-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: 14265.5 lumens
Efficiency: N/A
Efficacy: 98.9 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

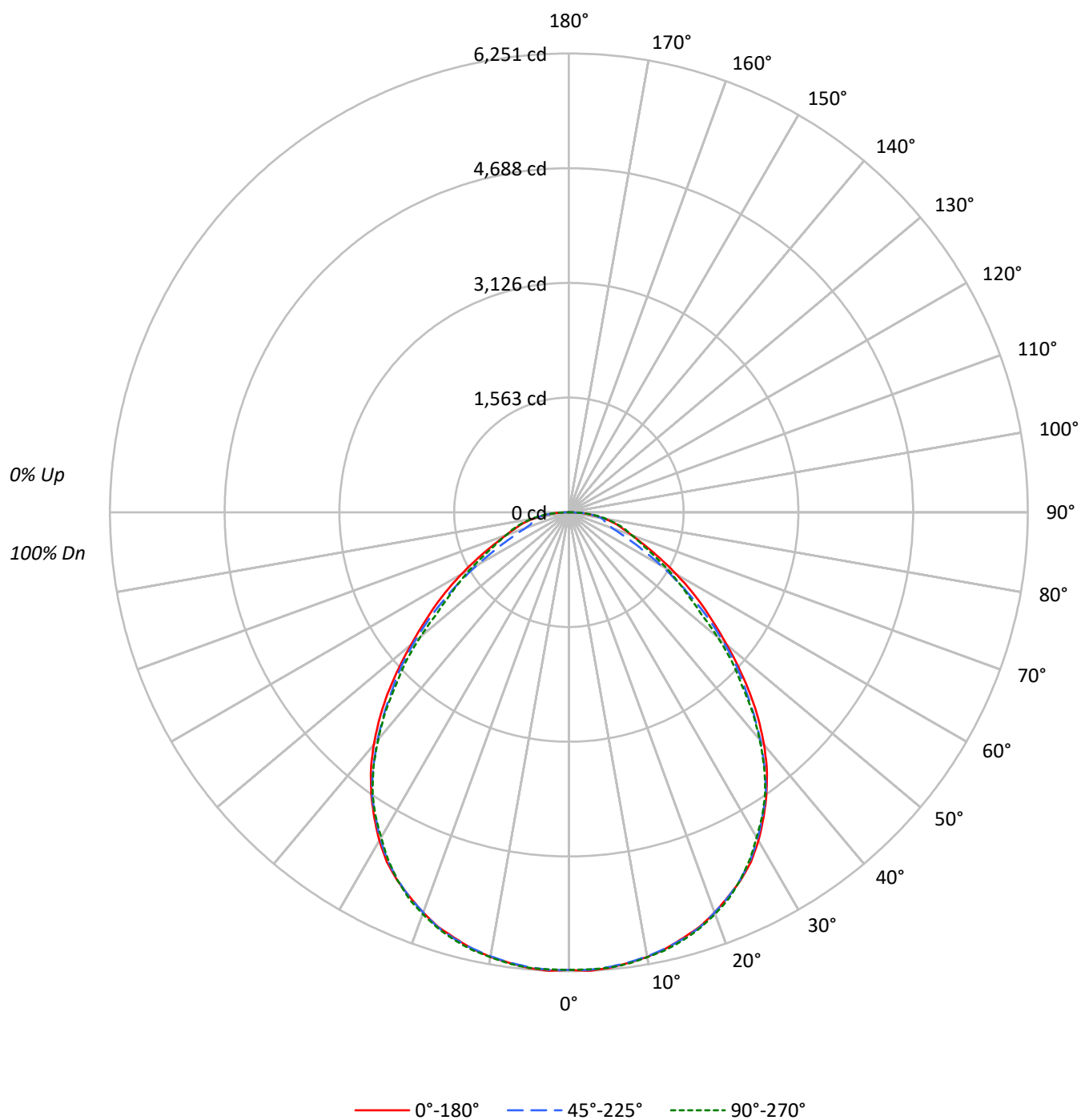
Input Watts (W): 144.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9548	9548	9548
5°	9580	9560	9577
10°	9567	9553	9570
15°	9521	9538	9563
20°	9456	9456	9493
25°	9350	9331	9338
30°	9131	9084	9041
35°	8772	8747	8713
40°	8263	8112	8076
45°	7558	7351	7216
50°	6682	6549	6294
55°	5943	5538	5325
60°	5174	4431	4752
65°	4469	3436	4202
70°	4076	2810	4066
75°	4109	3029	4320
80°	4279	3945	4554
85°	4458	4694	5045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.3	4.1
10°-20°	1695.9	11.9
20°-30°	2538.5	17.8
30°-40°	2900.7	20.3
40°-50°	2622.5	18.4
50°-60°	1886.7	13.2
60°-70°	1093.8	7.7
70°-80°	648.8	4.5
80°-90°	287.4	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°	4825.7	33.8
0°-40°	7726.3	54.2
0°-60°	12235.5	85.8
0°-90°	14265.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14265.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6234	6234	6234	6234	6234	
5°	6231	6222	6218	6209	6229	592
15°	6004	6015	6015	6009	6031	1695
25°	5532	5526	5521	5510	5526	2544
35°	4691	4669	4678	4620	4660	2925
45°	3490	3430	3394	3363	3332	2681
55°	2226	2183	2074	2021	1994	1991
65°	1233	1095	948	1059	1160	1245
75°	694	581	512	632	730	734
85°	254	274	267	307	287	272
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6233.6	6233.6	6233.6	6233.6	6233.6
2.5°	6251.4	6229.1	6240.2	6233.6	6231.3
5°	6231.3	6222.4	6218.0	6209.0	6229.1
7.5°	6191.2	6184.6	6186.8	6189.0	6202.4
10°	6151.2	6140.1	6142.3	6146.7	6153.4
12.5°	6088.9	6082.2	6084.4	6088.9	6104.5
15°	6004.3	6015.4	6015.4	6008.8	6031.0
17.5°	5919.7	5917.5	5928.7	5908.6	5939.8
20°	5801.8	5804.0	5801.8	5804.0	5824.0
22.5°	5668.2	5679.4	5672.8	5672.8	5695.0
25°	5532.5	5525.8	5521.4	5510.2	5525.8
27.5°	5370.1	5356.7	5345.6	5323.4	5334.4
30°	5163.1	5165.3	5136.4	5116.4	5111.9
32.5°	4931.6	4931.6	4904.9	4889.3	4902.7
35°	4691.3	4669.0	4677.9	4620.0	4660.1
37.5°	4431.0	4395.3	4375.3	4355.3	4368.6
40°	4132.7	4086.0	4057.0	4017.0	4039.2
42.5°	3818.9	3761.0	3725.4	3696.5	3705.4
45°	3489.5	3429.5	3393.8	3362.7	3331.5
47.5°	3142.4	3104.5	3086.7	3046.7	3011.0
50°	2804.1	2790.7	2748.5	2715.1	2641.6
52.5°	2494.8	2483.6	2416.9	2361.2	2267.8
55°	2225.5	2183.2	2074.1	2020.7	1994.0
57.5°	1951.8	1882.7	1751.4	1744.8	1762.6
60°	1689.1	1604.6	1446.6	1482.1	1551.2
62.5°	1451.0	1324.1	1172.8	1257.4	1339.7
65°	1233.0	1094.9	948.1	1059.4	1159.5
67.5°	1052.6	914.6	763.3	912.4	1028.2
70°	910.2	770.0	627.5	798.9	908.0
72.5°	792.3	665.4	547.4	710.0	823.4
75°	694.4	580.9	511.8	632.1	730.0
77.5°	596.4	505.2	489.6	563.0	623.1
80°	485.1	442.9	447.3	494.0	516.3
82.5°	362.8	365.0	376.1	413.9	405.0
85°	253.7	273.7	267.1	307.1	287.1
87.5°	140.2	153.6	144.6	175.8	158.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)