

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: P231828

Luminaire Tested: **24GR-LD5-130-A125-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231828
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-LD5-130-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: 10503.4 lumens
Efficiency: N/A
Efficacy: 105.9 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

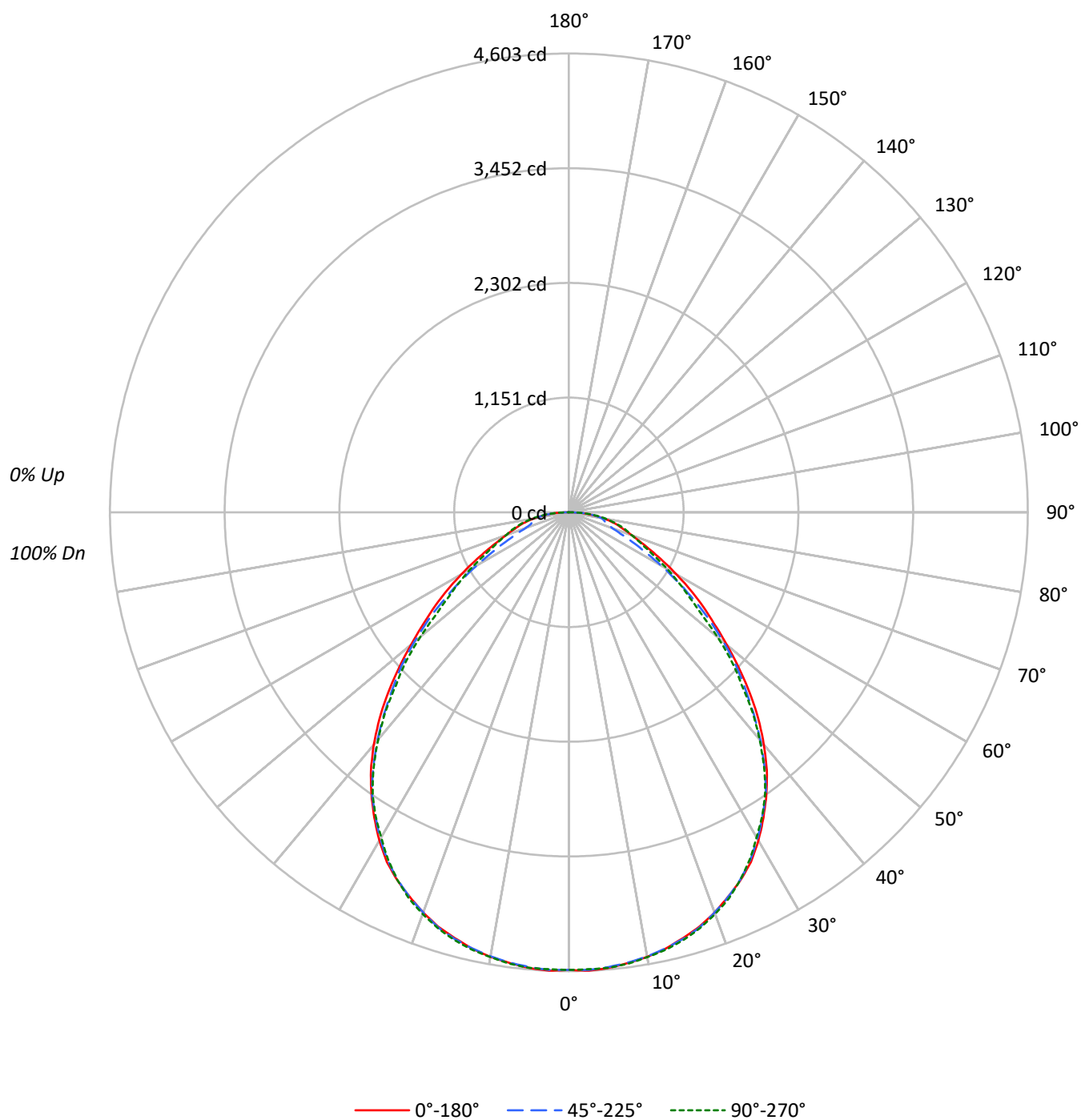
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	7030	7030	7030
5°	7054	7039	7051
10°	7044	7034	7046
15°	7010	7023	7041
20°	6963	6963	6989
25°	6884	6870	6876
30°	6723	6688	6657
35°	6458	6440	6415
40°	6084	5972	5946
45°	5565	5413	5313
50°	4919	4822	4635
55°	4375	4078	3920
60°	3810	3263	3499
65°	3290	2530	3094
70°	3001	2069	2994
75°	3026	2230	3180
80°	3151	2905	3353
85°	3283	3455	3715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	4.1
10°-20°	1248.6	11.9
20°-30°	1869.0	17.8
30°-40°	2135.7	20.3
40°-50°	1930.9	18.4
50°-60°	1389.1	13.2
60°-70°	805.3	7.7
70°-80°	477.7	4.5
80°-90°	211.6	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°	3553.0	33.8
0°-40°	5688.7	54.2
0°-60°	9008.7	85.8
0°-90°	10503.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10503.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4590	4590	4590	4590	4590	
5°	4588	4581	4578	4572	4586	436
15°	4421	4429	4429	4424	4440	1248
25°	4073	4068	4065	4057	4068	1873
35°	3454	3438	3444	3402	3431	2153
45°	2569	2525	2499	2476	2453	1974
55°	1638	1607	1527	1488	1468	1466
65°	908	806	698	780	854	917
75°	511	428	377	465	537	540
85°	187	202	197	226	211	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4589.6	4589.6	4589.6	4589.6	4589.6
2.5°	4602.7	4586.3	4594.5	4589.6	4588.0
5°	4588.0	4581.4	4578.1	4571.6	4586.3
7.5°	4558.5	4553.5	4555.2	4556.8	4566.7
10°	4529.0	4520.8	4522.5	4525.7	4530.7
12.5°	4483.1	4478.2	4479.8	4483.1	4494.6
15°	4420.9	4429.1	4429.1	4424.1	4440.5
17.5°	4358.5	4356.9	4365.1	4350.3	4373.3
20°	4271.7	4273.3	4271.7	4273.3	4288.1
22.5°	4173.4	4181.6	4176.7	4176.7	4193.1
25°	4073.4	4068.5	4065.2	4057.1	4068.5
27.5°	3953.9	3944.0	3935.8	3919.4	3927.6
30°	3801.4	3803.1	3781.8	3767.1	3763.8
32.5°	3631.0	3631.0	3611.4	3599.9	3609.7
35°	3454.1	3437.7	3444.2	3401.7	3431.1
37.5°	3262.4	3236.1	3221.5	3206.7	3216.5
40°	3042.8	3008.4	2987.1	2957.6	2974.0
42.5°	2811.8	2769.1	2743.0	2721.7	2728.2
45°	2569.3	2525.0	2498.8	2475.9	2452.9
47.5°	2313.6	2285.8	2272.7	2243.2	2217.0
50°	2064.6	2054.8	2023.6	1999.1	1945.0
52.5°	1836.8	1828.6	1779.5	1738.5	1669.7
55°	1638.5	1607.4	1527.2	1487.8	1468.1
57.5°	1437.0	1386.2	1289.5	1284.6	1297.7
60°	1243.7	1181.4	1065.1	1091.3	1142.1
62.5°	1068.4	975.0	863.5	925.8	986.4
65°	907.7	806.1	698.1	780.0	853.7
67.5°	775.1	673.5	562.0	671.8	757.0
70°	670.2	566.9	462.1	588.3	668.5
72.5°	583.3	490.0	403.1	522.7	606.3
75°	511.3	427.6	376.9	465.4	537.4
77.5°	439.1	372.0	360.5	414.6	458.8
80°	357.2	326.1	329.3	363.8	380.2
82.5°	267.1	268.7	276.9	304.8	298.2
85°	186.8	201.6	196.6	226.2	211.4
87.5°	103.2	113.1	106.5	129.5	116.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)