

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: P231835

Luminaire Tested: **24GR-LD5-150-A125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231835
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-LD5-150-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: 15384.4 lumens
Efficiency: N/A
Efficacy: 127.9 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

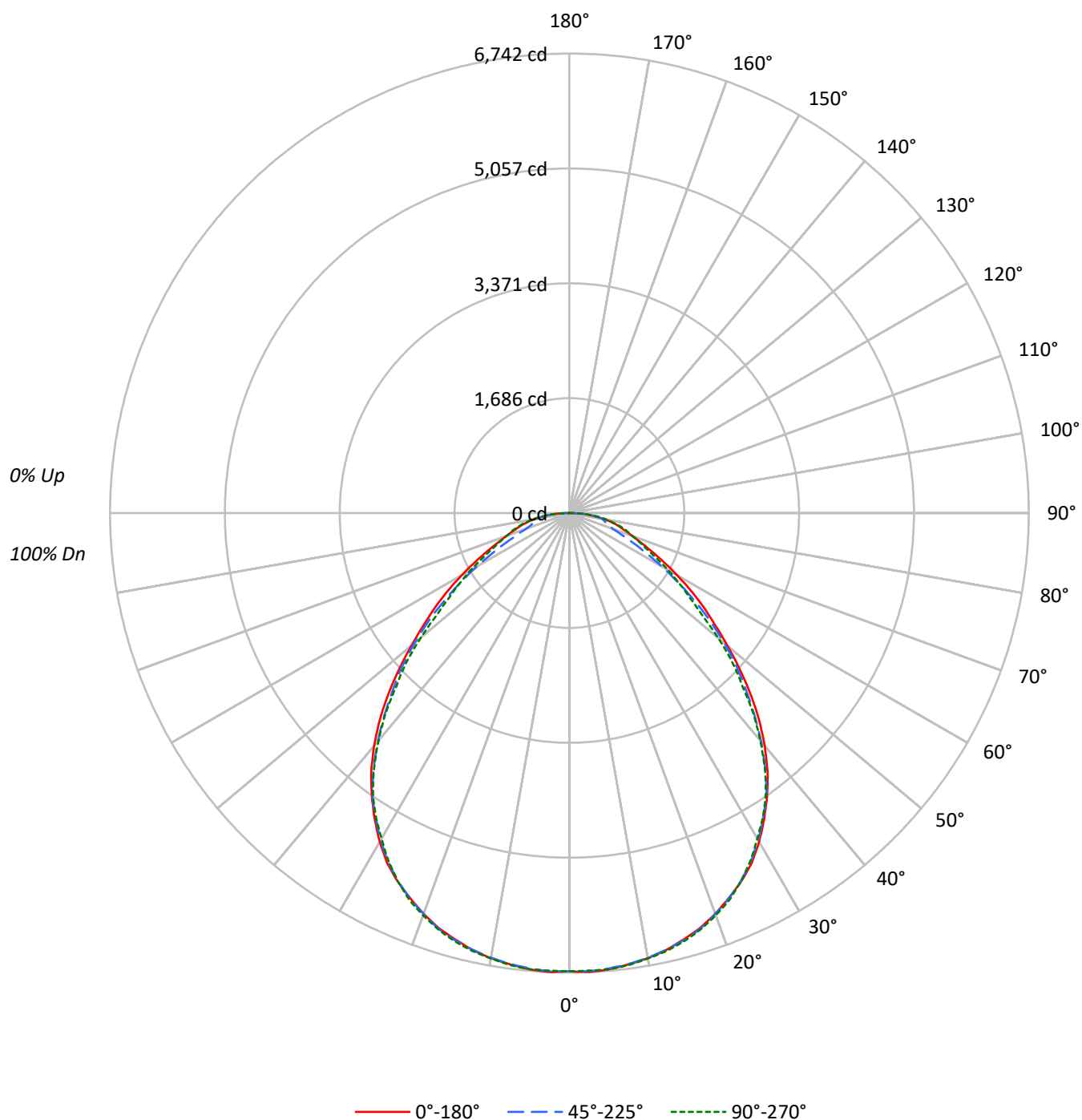
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	10296	10296	10296
5°	10332	10310	10328
10°	10317	10302	10321
15°	10268	10287	10313
20°	10198	10198	10237
25°	10083	10063	10071
30°	9847	9797	9750
35°	9460	9433	9397
40°	8911	8748	8710
45°	8151	7928	7782
50°	7206	7063	6788
55°	6409	5973	5742
60°	5580	4779	5125
65°	4819	3705	4532
70°	4396	3031	4385
75°	4431	3267	4658
80°	4615	4255	4911
85°	4808	5061	5441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.7	4.1
10°-20°	1828.9	11.9
20°-30°	2737.6	17.8
30°-40°	3128.2	20.3
40°-50°	2828.2	18.4
50°-60°	2034.7	13.2
60°-70°	1179.6	7.7
70°-80°	699.7	4.5
80°-90°	309.9	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°	5204.2	33.8
0°-40°	8332.3	54.2
0°-60°	13195.2	85.8
0°-90°	15384.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15384.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	6720	6710	6706	6696	6718	638
15°	6475	6487	6487	6480	6504	1828
25°	5966	5959	5954	5942	5959	2743
35°	5059	5035	5045	4982	5026	3154
45°	3763	3698	3660	3626	3593	2891
55°	2400	2354	2237	2179	2150	2147
65°	1330	1181	1022	1142	1250	1342
75°	749	626	552	682	787	791
85°	274	295	288	331	310	293
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6722.4	6722.4	6722.4	6722.4	6722.4
2.5°	6741.6	6717.7	6729.6	6722.4	6720.1
5°	6720.1	6710.4	6705.7	6696.1	6717.7
7.5°	6676.9	6669.7	6672.0	6674.5	6688.9
10°	6633.7	6621.7	6624.1	6628.9	6636.1
12.5°	6566.5	6559.3	6561.6	6566.5	6583.3
15°	6475.3	6487.3	6487.3	6480.1	6504.0
17.5°	6384.1	6381.6	6393.7	6372.1	6405.7
20°	6256.9	6259.3	6256.9	6259.3	6280.9
22.5°	6112.8	6124.8	6117.7	6117.7	6141.7
25°	5966.5	5959.2	5954.5	5942.5	5959.2
27.5°	5791.2	5776.9	5764.8	5740.8	5752.8
30°	5568.0	5570.5	5539.3	5517.7	5512.9
32.5°	5318.5	5318.5	5289.6	5272.8	5287.3
35°	5059.2	5035.2	5044.9	4982.4	5025.7
37.5°	4778.4	4740.0	4718.4	4696.9	4711.3
40°	4456.8	4406.5	4375.3	4332.1	4356.1
42.5°	4118.5	4056.1	4017.6	3986.4	3996.1
45°	3763.2	3698.4	3660.0	3626.4	3592.9
47.5°	3388.8	3348.1	3328.9	3285.6	3247.2
50°	3024.0	3009.6	2964.1	2928.0	2848.8
52.5°	2690.4	2678.4	2606.4	2546.5	2445.6
55°	2400.0	2354.4	2236.8	2179.3	2150.4
57.5°	2104.8	2030.4	1888.8	1881.6	1900.8
60°	1821.6	1730.5	1560.0	1598.4	1672.9
62.5°	1564.8	1428.0	1264.8	1356.0	1444.8
65°	1329.6	1180.8	1022.4	1142.4	1250.4
67.5°	1135.2	986.4	823.2	984.0	1108.8
70°	981.6	830.4	676.8	861.6	979.3
72.5°	854.4	717.6	590.4	765.6	888.0
75°	748.8	626.4	552.0	681.6	787.2
77.5°	643.2	544.8	528.0	607.2	672.0
80°	523.2	477.6	482.4	532.8	556.8
82.5°	391.2	393.6	405.6	446.4	436.8
85°	273.6	295.2	288.0	331.2	309.6
87.5°	151.2	165.6	156.0	189.6	170.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)