

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: P231831

Luminaire Tested: **24GR-LD5-130-A125-UNV-L950-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231831
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-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: 13327.9 lumens
Efficiency: N/A
Efficacy: 134.4 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

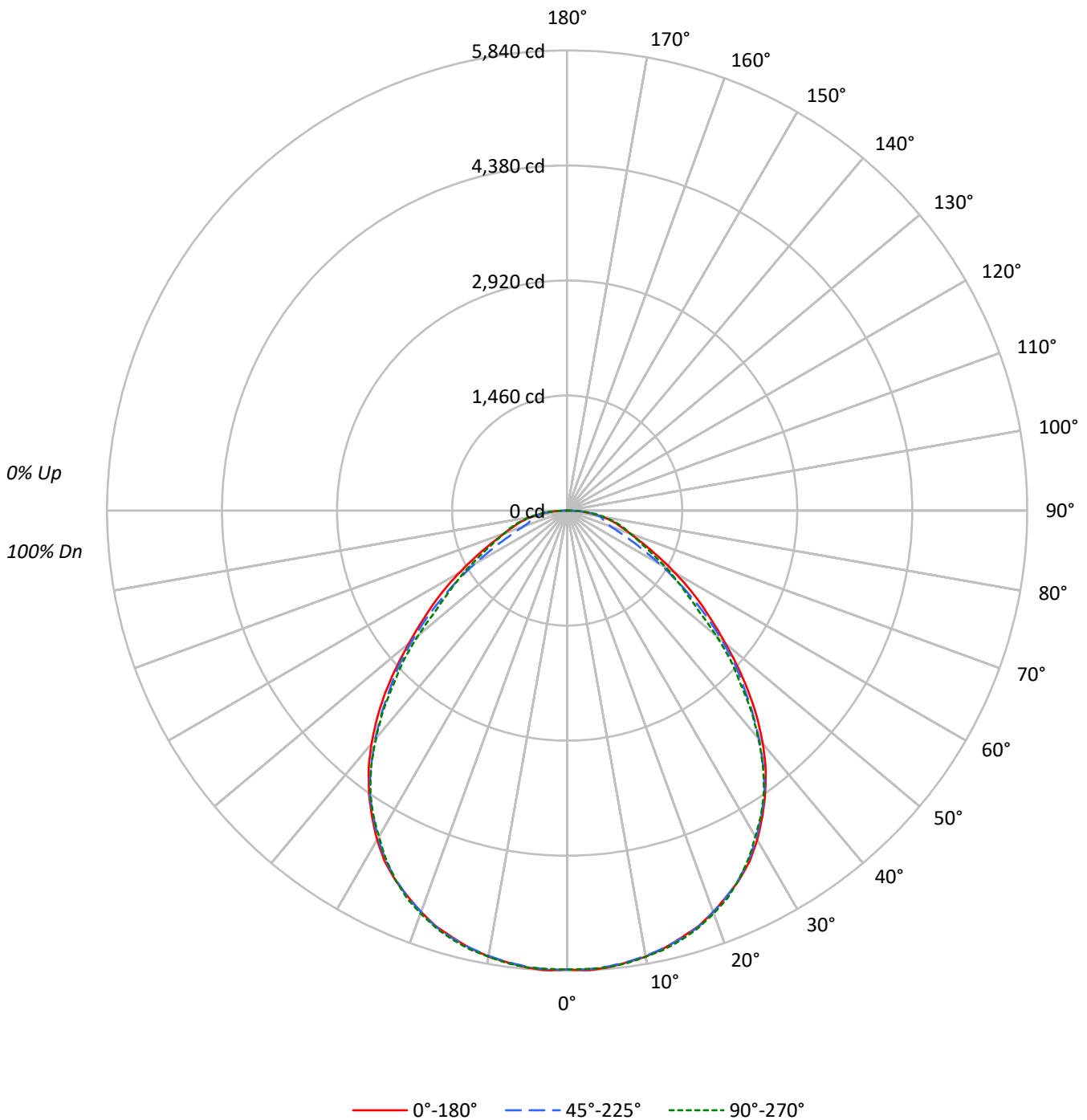
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	8920	8920	8920
5°	8951	8932	8947
10°	8938	8925	8941
15°	8895	8912	8935
20°	8835	8835	8869
25°	8735	8717	8725
30°	8531	8487	8447
35°	8195	8172	8141
40°	7720	7578	7545
45°	7062	6868	6742
50°	6242	6119	5881
55°	5552	5175	4975
60°	4834	4140	4439
65°	4175	3210	3926
70°	3808	2626	3799
75°	3839	2830	4036
80°	3998	3686	4255
85°	4167	4385	4713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.4	4.1
10°-20°	1584.4	11.9
20°-30°	2371.6	17.8
30°-40°	2710.0	20.3
40°-50°	2450.1	18.4
50°-60°	1762.7	13.2
60°-70°	1021.9	7.7
70°-80°	606.2	4.5
80°-90°	268.5	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°	4508.5	33.8
0°-40°	7218.5	54.2
0°-60°	11431.3	85.8
0°-90°	13327.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13327.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5824	5824	5824	5824	5824	
5°	5822	5813	5809	5801	5820	553
15°	5610	5620	5620	5614	5635	1584
25°	5169	5163	5158	5148	5163	2376
35°	4383	4362	4370	4316	4354	2732
45°	3260	3204	3171	3142	3113	2505
55°	2079	2040	1938	1888	1863	1860
65°	1152	1023	886	990	1083	1163
75°	649	543	478	590	682	686
85°	237	256	250	287	268	254
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5823.8	5823.8	5823.8	5823.8	5823.8
2.5°	5840.5	5819.6	5830.0	5823.8	5821.7
5°	5821.7	5813.4	5809.3	5801.0	5819.6
7.5°	5784.3	5778.0	5780.1	5782.2	5794.7
10°	5746.9	5736.5	5738.6	5742.7	5748.9
12.5°	5688.7	5682.4	5684.5	5688.7	5703.2
15°	5609.7	5620.1	5620.1	5613.8	5634.6
17.5°	5530.6	5528.5	5539.0	5520.2	5549.4
20°	5420.4	5422.5	5420.4	5422.5	5441.3
22.5°	5295.7	5306.1	5299.8	5299.8	5320.7
25°	5168.9	5162.6	5158.4	5148.1	5162.6
27.5°	5017.1	5004.6	4994.2	4973.4	4983.8
30°	4823.7	4825.8	4798.8	4780.0	4775.9
32.5°	4607.5	4607.5	4582.6	4568.0	4580.5
35°	4382.9	4362.2	4370.5	4316.4	4353.8
37.5°	4139.7	4106.4	4087.7	4069.0	4081.4
40°	3861.0	3817.4	3790.3	3752.9	3773.8
42.5°	3567.9	3513.9	3480.6	3453.5	3461.8
45°	3260.2	3204.0	3170.8	3141.7	3112.6
47.5°	2935.8	2900.4	2883.9	2846.4	2813.2
50°	2619.8	2607.3	2567.8	2536.6	2468.0
52.5°	2330.8	2320.4	2258.0	2206.0	2118.7
55°	2079.2	2039.7	1937.8	1887.9	1863.0
57.5°	1823.5	1759.0	1636.4	1630.1	1646.7
60°	1578.1	1499.1	1351.4	1384.7	1449.2
62.5°	1355.6	1237.1	1095.7	1174.7	1251.7
65°	1151.9	1022.9	885.7	989.7	1083.3
67.5°	983.4	854.6	713.2	852.5	960.6
70°	850.4	719.4	586.3	746.5	848.3
72.5°	740.2	621.7	511.5	663.3	769.3
75°	648.7	542.6	478.2	590.5	682.0
77.5°	557.2	472.0	457.5	526.1	582.2
80°	453.3	413.8	417.9	461.6	482.4
82.5°	338.9	341.0	351.4	386.8	378.4
85°	237.1	255.7	249.5	286.9	268.2
87.5°	130.9	143.5	135.1	164.3	147.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)