

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: P231832

Luminaire Tested: **24GR-LD5-150-A125-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231832
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-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: 12123.7 lumens
Efficiency: N/A
Efficacy: 100.8 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

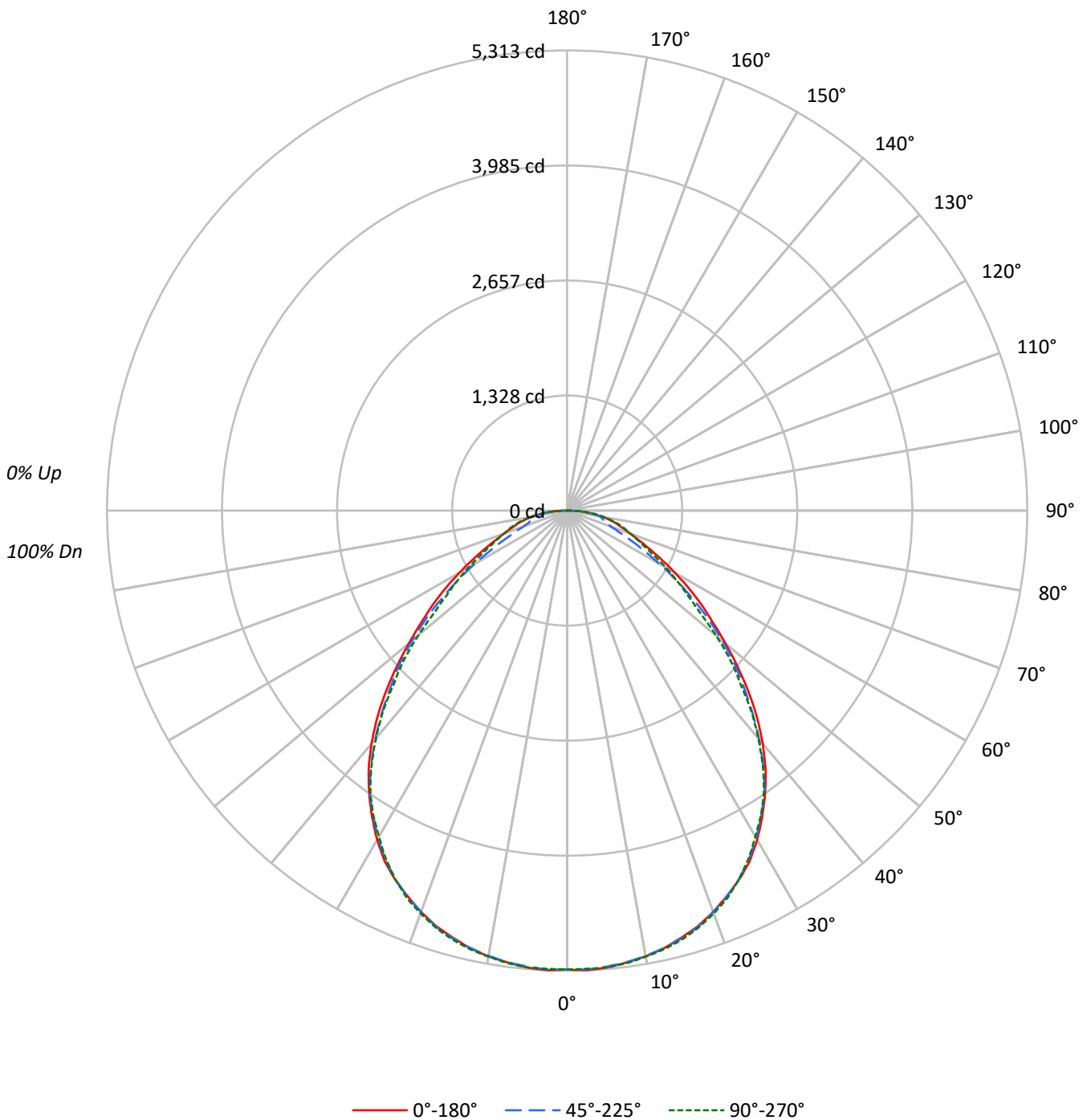
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	8114	8114	8114
5°	8142	8125	8139
10°	8130	8119	8133
15°	8091	8106	8127
20°	8037	8037	8067
25°	7946	7930	7936
30°	7760	7720	7683
35°	7455	7433	7405
40°	7022	6894	6864
45°	6424	6248	6133
50°	5678	5566	5349
55°	5050	4707	4525
60°	4397	3766	4038
65°	3797	2920	3571
70°	3464	2388	3456
75°	3492	2574	3671
80°	3637	3353	3870
85°	3789	3989	4288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.5	4.1
10°-20°	1441.2	11.9
20°-30°	2157.4	17.8
30°-40°	2465.2	20.3
40°-50°	2228.7	18.4
50°-60°	1603.5	13.2
60°-70°	929.6	7.7
70°-80°	551.4	4.5
80°-90°	244.2	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
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0°-30°	4101.1	33.8
0°-40°	6566.3	54.2
0°-60°	10398.5	85.8
0°-90°	12123.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12123.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5296	5288	5284	5277	5294	503
15°	5103	5112	5112	5107	5126	1441
25°	4702	4696	4692	4683	4696	2162
35°	3987	3968	3976	3926	3960	2486
45°	2966	2914	2884	2858	2831	2278
55°	1891	1855	1763	1717	1695	1692
65°	1048	930	806	900	985	1058
75°	590	494	435	537	620	624
85°	216	233	227	261	244	231
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5297.6	5297.6	5297.6	5297.6	5297.6
2.5°	5312.8	5293.8	5303.3	5297.6	5295.7
5°	5295.7	5288.2	5284.4	5276.9	5293.8
7.5°	5261.7	5256.0	5257.9	5259.8	5271.1
10°	5227.7	5218.2	5220.1	5223.9	5229.5
12.5°	5174.7	5169.0	5170.9	5174.7	5188.0
15°	5102.9	5112.3	5112.3	5106.6	5125.5
17.5°	5030.9	5029.1	5038.5	5021.5	5048.0
20°	4930.7	4932.6	4930.7	4932.6	4949.6
22.5°	4817.3	4826.7	4821.0	4821.0	4840.0
25°	4701.9	4696.2	4692.4	4682.9	4696.2
27.5°	4563.8	4552.5	4543.0	4524.1	4533.5
30°	4387.9	4389.8	4365.2	4348.2	4344.4
32.5°	4191.2	4191.2	4168.5	4155.3	4166.6
35°	3986.9	3968.1	3975.6	3926.4	3960.4
37.5°	3765.7	3735.4	3718.4	3701.3	3712.7
40°	3512.2	3472.5	3447.9	3413.8	3432.8
42.5°	3245.6	3196.4	3166.1	3141.5	3149.0
45°	2965.6	2914.5	2884.3	2857.8	2831.3
47.5°	2670.6	2638.4	2623.3	2589.2	2559.0
50°	2383.1	2371.8	2335.8	2307.4	2245.0
52.5°	2120.2	2110.8	2054.0	2006.7	1927.2
55°	1891.3	1855.4	1762.8	1717.3	1694.6
57.5°	1658.7	1600.1	1488.5	1482.8	1498.0
60°	1435.5	1363.7	1229.3	1259.6	1318.2
62.5°	1233.1	1125.4	996.7	1068.6	1138.6
65°	1047.8	930.5	805.7	900.3	985.4
67.5°	894.6	777.4	648.7	775.5	873.8
70°	773.6	654.4	533.3	679.0	771.7
72.5°	673.3	565.5	465.3	603.4	699.8
75°	590.1	493.6	435.0	537.1	620.3
77.5°	506.8	429.4	416.1	478.5	529.6
80°	412.3	376.4	380.2	419.8	438.8
82.5°	308.3	310.2	319.6	351.8	344.2
85°	215.6	232.6	227.0	261.0	244.0
87.5°	119.1	130.5	122.9	149.4	134.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)