

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: P231822

Luminaire Tested: **24GR-LD5-100-A125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231822
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-LD5-100-A125-UNV-L940-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8642.2 lumens
Efficiency: N/A
Efficacy: 120.5 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

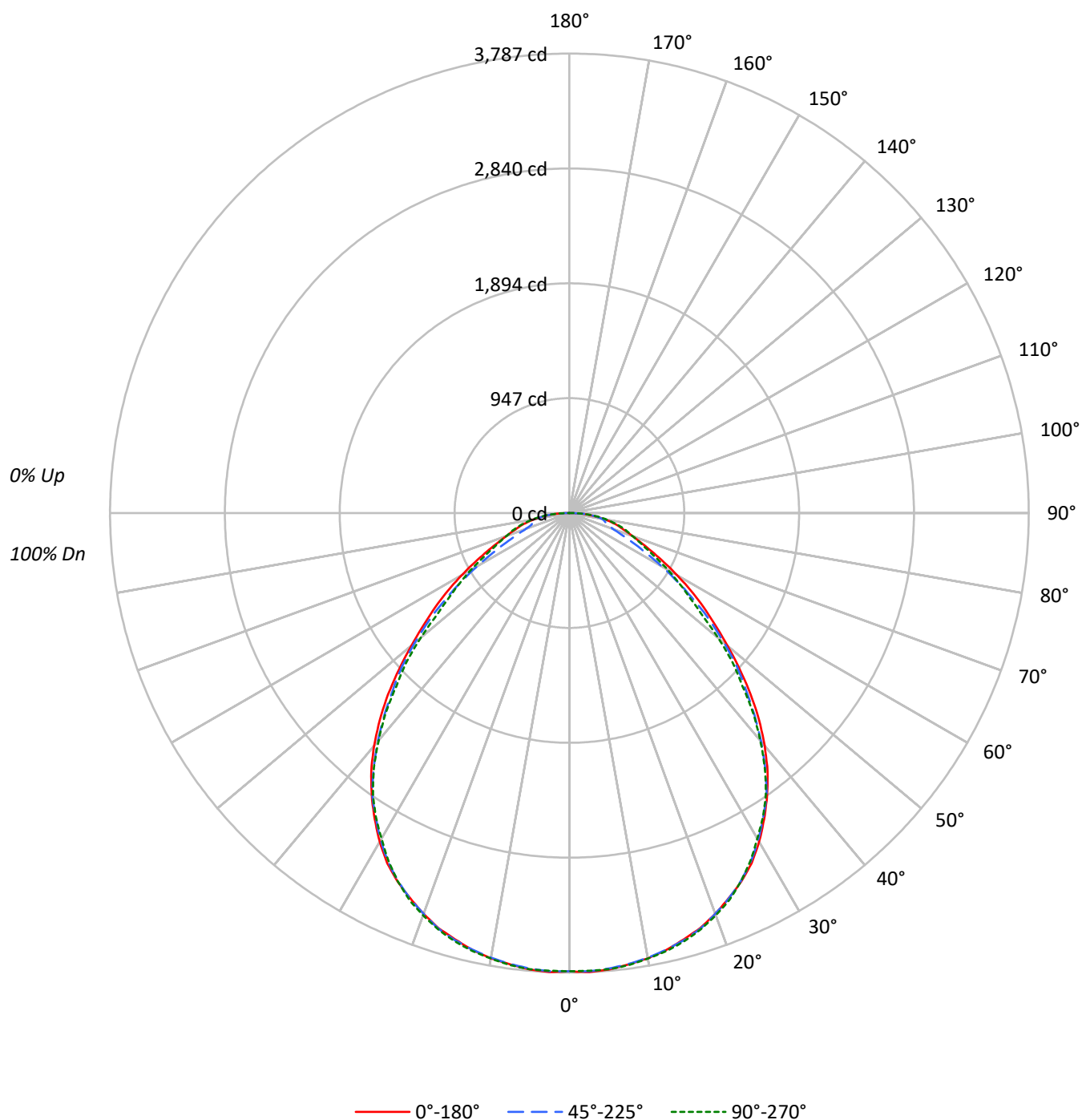
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5784	5784	5784
5°	5804	5792	5802
10°	5796	5787	5798
15°	5768	5778	5793
20°	5729	5729	5751
25°	5664	5653	5657
30°	5532	5503	5477
35°	5314	5299	5279
40°	5006	4914	4893
45°	4579	4453	4372
50°	4048	3967	3813
55°	3600	3355	3226
60°	3135	2684	2879
65°	2707	2081	2546
70°	2469	1703	2463
75°	2489	1835	2617
80°	2592	2390	2759
85°	2701	2843	3056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	4.1
10°-20°	1027.4	11.9
20°-30°	1537.8	17.8
30°-40°	1757.2	20.3
40°-50°	1588.7	18.4
50°-60°	1143.0	13.2
60°-70°	662.6	7.7
70°-80°	393.1	4.5
80°-90°	174.1	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°	2923.4	33.8
0°-40°	4680.7	54.2
0°-60°	7412.4	85.8
0°-90°	8642.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8642.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3776	3776	3776	3776	3776	
5°	3775	3770	3767	3762	3774	359
15°	3638	3644	3644	3640	3654	1027
25°	3352	3348	3345	3338	3348	1541
35°	2842	2828	2834	2799	2823	1772
45°	2114	2078	2056	2037	2018	1624
55°	1348	1323	1256	1224	1208	1206
65°	747	663	574	642	702	754
75°	421	352	310	383	442	445
85°	154	166	162	186	174	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3776.3	3776.3	3776.3	3776.3	3776.3
2.5°	3787.1	3773.6	3780.4	3776.3	3775.0
5°	3775.0	3769.6	3766.9	3761.5	3773.6
7.5°	3750.7	3746.7	3748.0	3749.3	3757.4
10°	3726.5	3719.7	3721.0	3723.7	3727.8
12.5°	3688.7	3684.7	3686.0	3688.7	3698.1
15°	3637.5	3644.2	3644.2	3640.1	3653.6
17.5°	3586.2	3584.9	3591.6	3579.5	3598.3
20°	3514.7	3516.1	3514.7	3516.1	3528.2
22.5°	3433.9	3440.6	3436.6	3436.6	3450.1
25°	3351.6	3347.6	3344.9	3338.2	3347.6
27.5°	3253.2	3245.1	3238.4	3224.9	3231.6
30°	3127.8	3129.2	3111.7	3099.5	3096.9
32.5°	2987.6	2987.6	2971.5	2962.0	2970.1
35°	2842.0	2828.5	2834.0	2798.9	2823.1
37.5°	2684.2	2662.7	2650.6	2638.4	2646.6
40°	2503.6	2475.3	2457.8	2433.5	2447.0
42.5°	2313.5	2278.5	2256.9	2239.4	2244.8
45°	2114.0	2077.6	2056.0	2037.2	2018.2
47.5°	1903.7	1880.7	1870.0	1845.7	1824.1
50°	1698.8	1690.7	1665.0	1644.8	1600.3
52.5°	1511.4	1504.6	1464.2	1430.4	1373.8
55°	1348.2	1322.6	1256.5	1224.2	1208.0
57.5°	1182.4	1140.6	1061.1	1057.0	1067.8
60°	1023.3	972.1	876.3	897.9	939.7
62.5°	879.0	802.2	710.5	761.7	811.6
65°	746.9	663.3	574.3	641.7	702.4
67.5°	637.7	554.1	462.4	552.7	622.9
70°	551.4	466.5	380.2	484.0	550.1
72.5°	480.0	403.1	331.6	430.1	498.8
75°	420.6	351.9	310.1	382.9	442.2
77.5°	361.3	306.1	296.6	341.1	377.5
80°	293.9	268.3	271.0	299.3	312.8
82.5°	219.7	221.1	227.8	250.8	245.4
85°	153.7	165.8	161.8	186.0	173.9
87.5°	85.0	93.1	87.6	106.5	95.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)