

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: P234135

Luminaire Tested: **22GR-LD5-85-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-A125-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7320.3 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

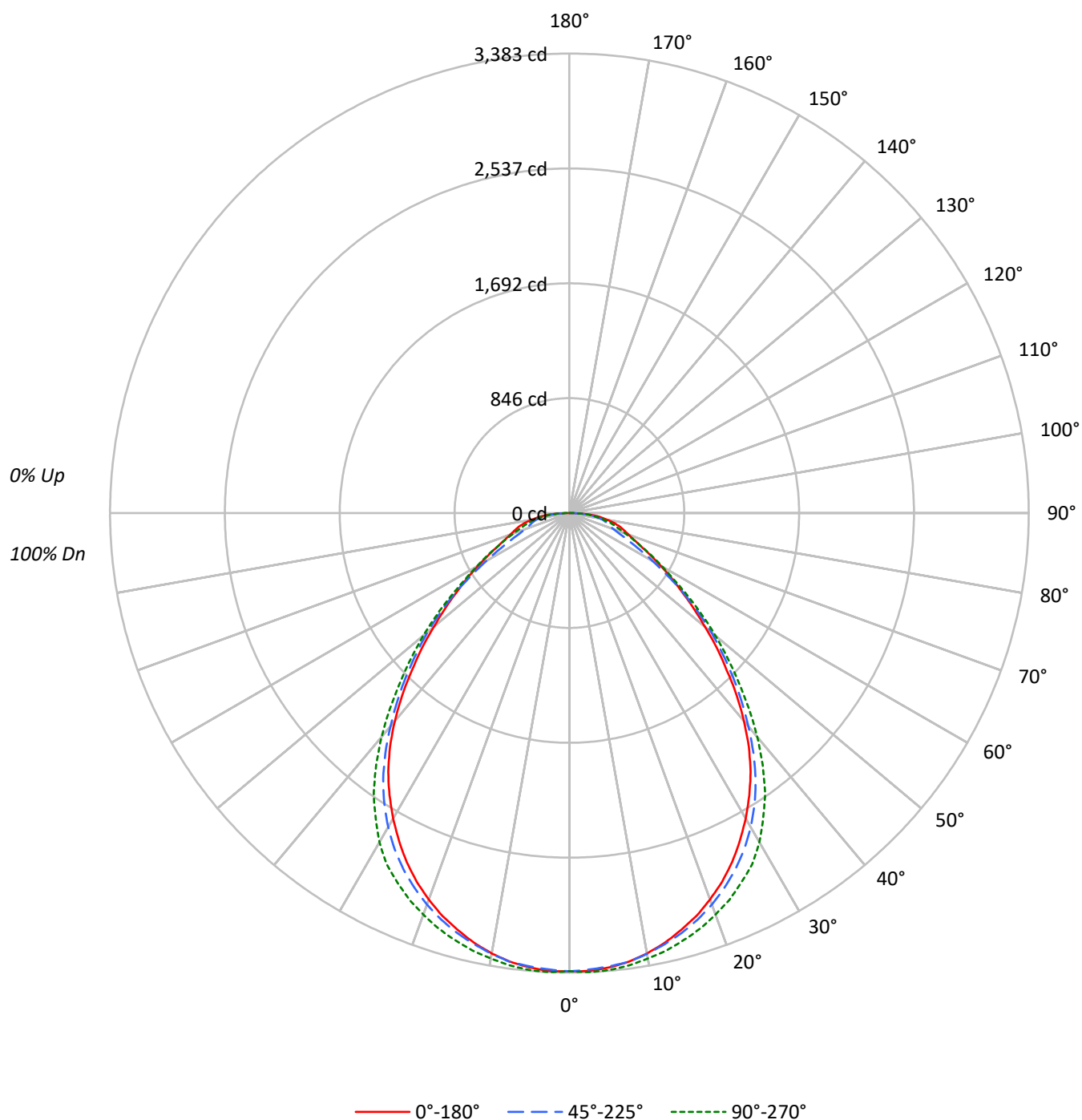
Input Watts (W): 81.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	102	98	107	103	100	96		99	96	93			95	93	91			92
2	101	94	87	82	98	92	86	81		88	83	79			85	81	78			82
3	93	83	76	70	91	82	75	69		79	73	68			76	71	67			74
4	86	75	67	61	84	74	66	60		71	65	59			69	63	59			67
5	80	68	59	53	78	67	59	53		65	58	52			63	57	52			61
6	74	61	53	47	72	61	53	47		59	52	47			57	51	46			56
7	69	56	48	42	67	55	48	42		54	47	42			52	46	41			51
8	64	52	44	38	63	51	43	38		50	43	38			48	42	38			47
9	60	48	40	35	59	47	40	34		46	39	34			45	39	34			44
10	57	44	37	32	55	44	36	32		43	36	31			42	36	31			41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10806	10806	10806
5°	10798	10771	10858
10°	10706	10718	10828
15°	10537	10610	10791
20°	10319	10453	10720
25°	10018	10223	10596
30°	9600	9871	10345
35°	9095	9348	9822
40°	8363	8569	8997
45°	7428	7699	7977
50°	6488	6786	6990
55°	5641	5718	5927
60°	4963	4548	5062
65°	4410	3634	4436
70°	4331	3229	4092
75°	4732	3547	4182
80°	5193	4218	4469
85°	6210	4891	5019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	4.4
10°-20°	904.4	12.4
20°-30°	1335.1	18.2
30°-40°	1494.0	20.4
40°-50°	1311.9	17.9
50°-60°	928.3	12.7
60°-70°	540.3	7.4
70°-80°	336.8	4.6
80°-90°	150.7	2.1
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°	2558.4	34.9
0°-40°	4052.3	55.4
0°-60°	6292.6	86.0
0°-90°	7320.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7320.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3374	3374	3374	3374	3374	
5°	3359	3350	3350	3368	3378	318
15°	3178	3185	3200	3234	3255	895
25°	2835	2847	2893	2961	2999	1302
35°	2326	2337	2391	2463	2512	1447
45°	1640	1659	1700	1741	1761	1269
55°	1010	1031	1024	1043	1062	913
65°	582	536	480	522	585	590
75°	382	329	287	294	338	399
85°	169	176	133	130	137	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3374.3	3367.5	3364.1	3376.0	3382.8
5°	3358.9	3350.4	3350.4	3367.5	3377.7
7.5°	3331.6	3323.1	3333.4	3348.7	3358.9
10°	3292.3	3289.0	3295.8	3316.2	3329.9
12.5°	3241.2	3242.9	3249.7	3282.1	3299.2
15°	3178.0	3184.8	3200.2	3234.4	3254.8
17.5°	3109.8	3114.8	3138.7	3178.0	3207.0
20°	3027.8	3038.0	3067.1	3116.6	3145.6
22.5°	2937.3	2949.3	2985.1	3044.9	3080.8
25°	2835.0	2846.9	2893.0	2961.2	2998.8
27.5°	2718.9	2737.6	2788.9	2864.0	2915.1
30°	2596.0	2611.4	2669.4	2754.8	2797.4
32.5°	2464.6	2483.3	2537.9	2619.9	2657.5
35°	2326.3	2336.6	2391.2	2462.9	2512.4
37.5°	2169.4	2174.4	2225.7	2292.2	2336.6
40°	2000.4	2003.8	2049.8	2113.0	2152.2
42.5°	1824.6	1826.3	1875.7	1923.6	1957.7
45°	1640.2	1659.0	1700.0	1740.9	1761.4
47.5°	1474.6	1488.3	1525.9	1561.7	1580.5
50°	1302.3	1336.4	1362.0	1380.8	1403.0
52.5°	1153.8	1182.8	1189.6	1211.8	1230.6
55°	1010.4	1030.9	1024.1	1042.8	1061.6
57.5°	889.2	879.0	856.8	889.2	913.1
60°	774.9	747.6	710.0	754.4	790.3
62.5°	672.4	628.1	582.0	626.4	686.1
65°	582.0	536.0	479.6	522.3	585.4
67.5°	513.8	465.9	399.4	442.0	505.2
70°	462.5	413.1	344.8	380.6	437.0
72.5°	421.6	368.7	308.9	332.8	380.6
75°	382.4	329.4	286.7	293.6	338.0
77.5°	336.3	297.0	262.8	259.5	293.6
80°	281.6	269.7	228.7	223.6	242.3
82.5°	232.1	227.0	187.7	182.7	189.5
85°	169.0	175.8	133.1	129.7	136.6
87.5°	88.8	97.3	70.0	73.4	75.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)