

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: P476116

Luminaire Tested: **22GR-LD5-50-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476116
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A125-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.8 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

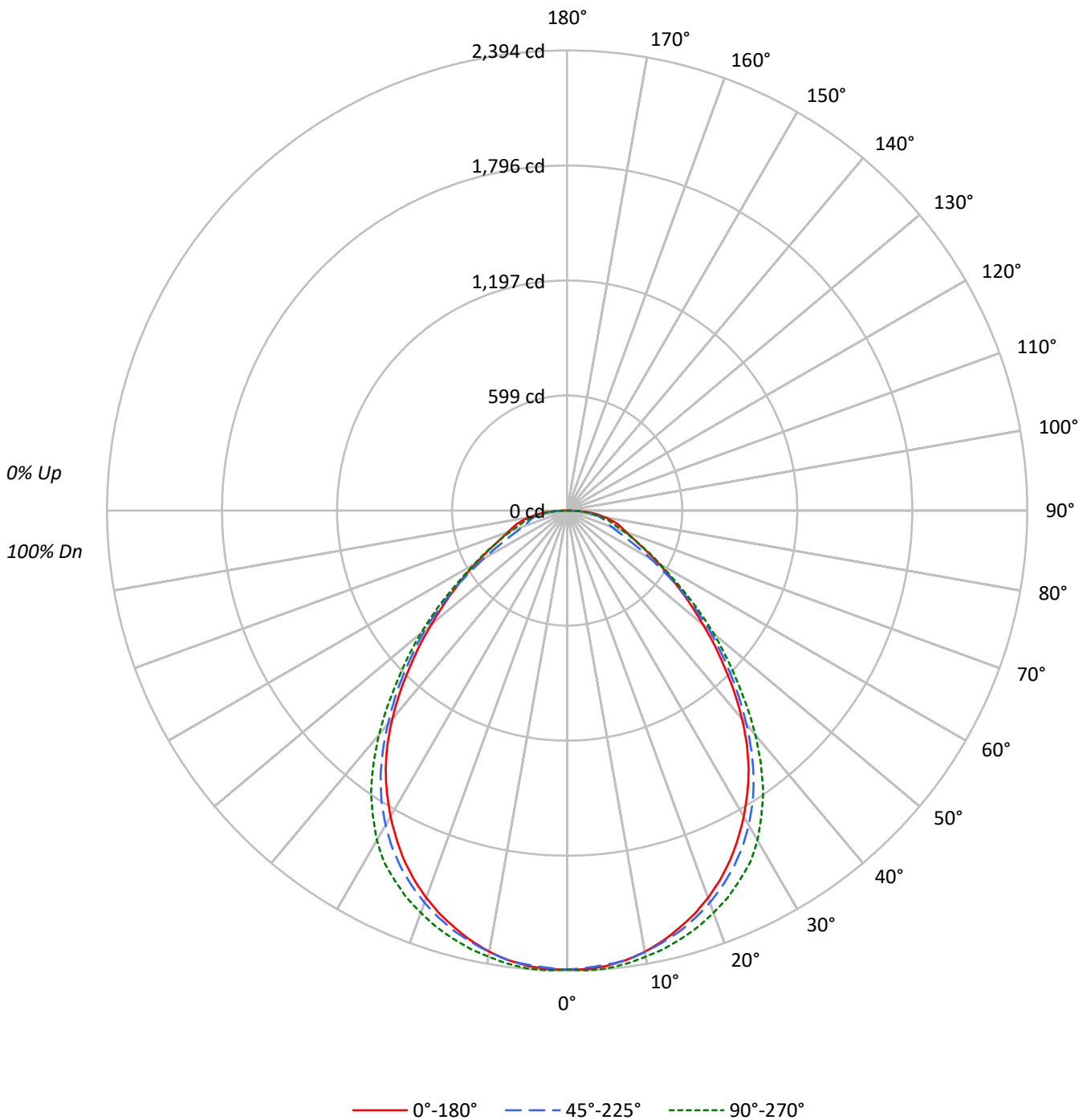
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6426	6426	6426
5°	6421	6405	6458
10°	6368	6374	6440
15°	6266	6310	6417
20°	6137	6216	6376
25°	5958	6079	6302
30°	5709	5870	6152
35°	5408	5559	5841
40°	4974	5096	5351
45°	4418	4578	4744
50°	3859	4035	4157
55°	3354	3401	3525
60°	2951	2704	3010
65°	2623	2161	2637
70°	2575	1919	2434
75°	2815	2111	2486
80°	3090	2506	2659
85°	3690	2912	2979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	4.4
10°-20°	640.1	12.4
20°-30°	944.9	18.2
30°-40°	1057.3	20.4
40°-50°	928.5	17.9
50°-60°	657.0	12.7
60°-70°	382.4	7.4
70°-80°	238.3	4.6
80°-90°	106.6	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°	1810.6	34.9
0°-40°	2868.0	55.4
0°-60°	4453.4	86.0
0°-90°	5180.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2377	2371	2371	2383	2391	225
15°	2249	2254	2265	2289	2303	634
25°	2006	2015	2047	2096	2122	922
35°	1646	1654	1692	1743	1778	1024
45°	1161	1174	1203	1232	1246	898
55°	715	730	725	738	751	646
65°	412	379	339	370	414	418
75°	271	233	203	208	239	283
85°	120	124	94	92	96	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2388.1	2388.1	2388.1	2388.1	2388.1
2.5°	2388.1	2383.3	2380.7	2389.4	2394.2
5°	2377.2	2371.2	2371.2	2383.3	2390.7
7.5°	2358.1	2352.0	2359.0	2369.9	2377.2
10°	2330.3	2327.7	2332.5	2347.2	2356.8
12.5°	2293.8	2295.1	2299.9	2322.9	2335.0
15°	2249.1	2253.9	2265.1	2289.0	2303.4
17.5°	2200.8	2204.6	2221.3	2249.1	2269.8
20°	2143.0	2150.0	2170.8	2205.6	2226.4
22.5°	2078.7	2087.3	2112.6	2155.1	2180.4
25°	2006.5	2014.8	2047.4	2095.7	2122.5
27.5°	1924.4	1937.5	1973.9	2026.9	2063.1
30°	1837.4	1848.3	1889.2	1949.6	1980.0
32.5°	1744.4	1757.5	1796.2	1854.0	1880.9
35°	1646.3	1653.6	1692.3	1743.1	1778.0
37.5°	1535.4	1538.9	1575.0	1622.3	1653.6
40°	1415.9	1418.1	1450.7	1495.4	1523.2
42.5°	1291.2	1292.5	1327.6	1361.2	1385.5
45°	1160.8	1174.2	1203.0	1232.1	1246.5
47.5°	1043.5	1053.4	1080.0	1105.2	1118.6
50°	921.7	945.7	963.9	977.4	993.0
52.5°	816.6	837.0	841.8	857.5	870.9
55°	715.0	729.7	724.9	738.0	751.4
57.5°	629.3	622.0	606.3	629.3	646.2
60°	548.4	528.9	502.4	534.1	559.3
62.5°	475.9	444.6	412.0	443.3	485.5
65°	412.0	379.4	339.4	369.8	414.2
67.5°	363.7	329.8	282.5	312.9	357.6
70°	327.3	292.4	243.9	269.4	309.4
72.5°	298.5	260.8	218.6	235.5	269.4
75°	270.7	233.0	203.0	207.7	239.1
77.5°	238.1	210.3	186.0	183.5	207.7
80°	199.4	190.8	161.7	158.2	171.6
82.5°	164.3	160.8	133.0	129.1	134.2
85°	119.5	124.3	94.3	91.7	96.5
87.5°	63.0	68.7	49.5	52.1	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)