

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: P476104

Luminaire Tested: **22GR-LD5-50-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476104
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5175.7 lumens
Efficiency: N/A
Efficacy: 140.3 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

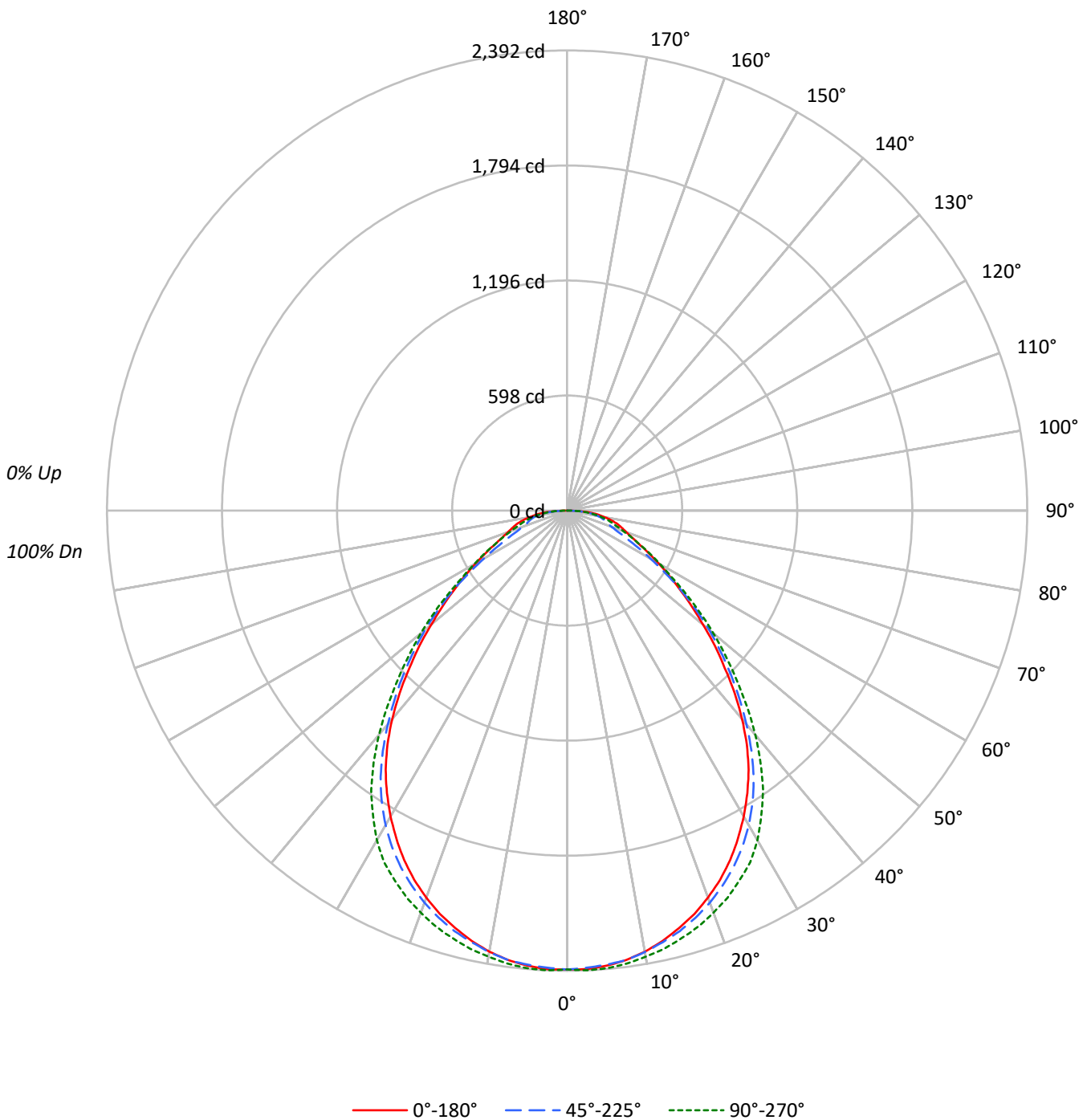
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6420	6420	6420
5°	6415	6399	6451
10°	6361	6367	6434
15°	6260	6304	6411
20°	6131	6210	6369
25°	5952	6073	6296
30°	5704	5864	6146
35°	5403	5554	5835
40°	4969	5091	5346
45°	4413	4574	4739
50°	3855	4032	4153
55°	3351	3398	3522
60°	2949	2701	3007
65°	2621	2159	2635
70°	2573	1917	2432
75°	2811	2109	2483
80°	3087	2504	2658
85°	3687	2908	2976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	4.4
10°-20°	639.4	12.4
20°-30°	944.0	18.2
30°-40°	1056.3	20.4
40°-50°	927.6	17.9
50°-60°	656.3	12.7
60°-70°	382.1	7.4
70°-80°	238.1	4.6
80°-90°	106.5	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°	1808.9	34.9
0°-40°	2865.1	55.4
0°-60°	4449.0	86.0
0°-90°	5175.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5175.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2386	2386	2386	2386	2386	
5°	2375	2369	2369	2381	2388	225
15°	2247	2252	2263	2287	2301	633
25°	2004	2013	2045	2094	2120	921
35°	1645	1652	1691	1741	1776	1023
45°	1160	1173	1202	1231	1245	897
55°	714	729	724	737	751	646
65°	412	379	339	369	414	417
75°	270	233	203	208	239	282
85°	119	124	94	92	96	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2385.8	2381.0	2378.4	2387.0	2391.8
5°	2374.9	2368.8	2368.8	2381.0	2388.3
7.5°	2355.7	2349.7	2356.7	2367.6	2374.9
10°	2328.0	2325.4	2330.2	2344.9	2354.5
12.5°	2291.6	2292.8	2297.6	2320.6	2332.8
15°	2246.9	2251.7	2262.8	2286.8	2301.1
17.5°	2198.7	2202.5	2219.1	2246.9	2267.6
20°	2140.9	2147.9	2168.6	2203.4	2224.2
22.5°	2076.7	2085.3	2110.5	2153.0	2178.2
25°	2004.5	2012.8	2045.4	2093.6	2120.4
27.5°	1922.5	1935.6	1972.0	2025.0	2061.0
30°	1835.6	1846.5	1887.3	1947.7	1978.0
32.5°	1742.7	1755.8	1794.4	1852.2	1879.0
35°	1644.7	1652.0	1690.7	1741.4	1776.2
37.5°	1533.9	1537.4	1573.5	1620.7	1652.0
40°	1414.5	1416.7	1449.3	1494.0	1521.8
42.5°	1289.9	1291.2	1326.3	1359.9	1384.1
45°	1159.7	1173.1	1201.8	1230.9	1245.2
47.5°	1042.5	1052.4	1078.9	1104.1	1117.5
50°	920.8	944.8	963.0	976.4	992.0
52.5°	815.8	836.2	841.0	856.7	870.1
55°	714.3	728.9	724.2	737.2	750.7
57.5°	628.7	621.3	605.7	628.7	645.6
60°	547.9	528.4	501.9	533.5	558.8
62.5°	475.4	444.1	411.6	442.9	485.0
65°	411.6	379.0	339.1	369.4	413.8
67.5°	363.4	329.5	282.3	312.6	357.3
70°	327.0	292.2	243.6	269.2	309.1
72.5°	298.2	260.5	218.4	235.3	269.2
75°	270.4	232.8	202.8	207.5	238.8
77.5°	237.9	210.1	185.8	183.3	207.5
80°	199.2	190.6	161.6	158.1	171.5
82.5°	164.1	160.6	132.8	129.0	134.1
85°	119.4	124.2	94.2	91.6	96.4
87.5°	62.9	68.6	49.5	52.0	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)