

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: P476347

Luminaire Tested: **14GR-LD5-50-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476347  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-A125-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5187.1 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

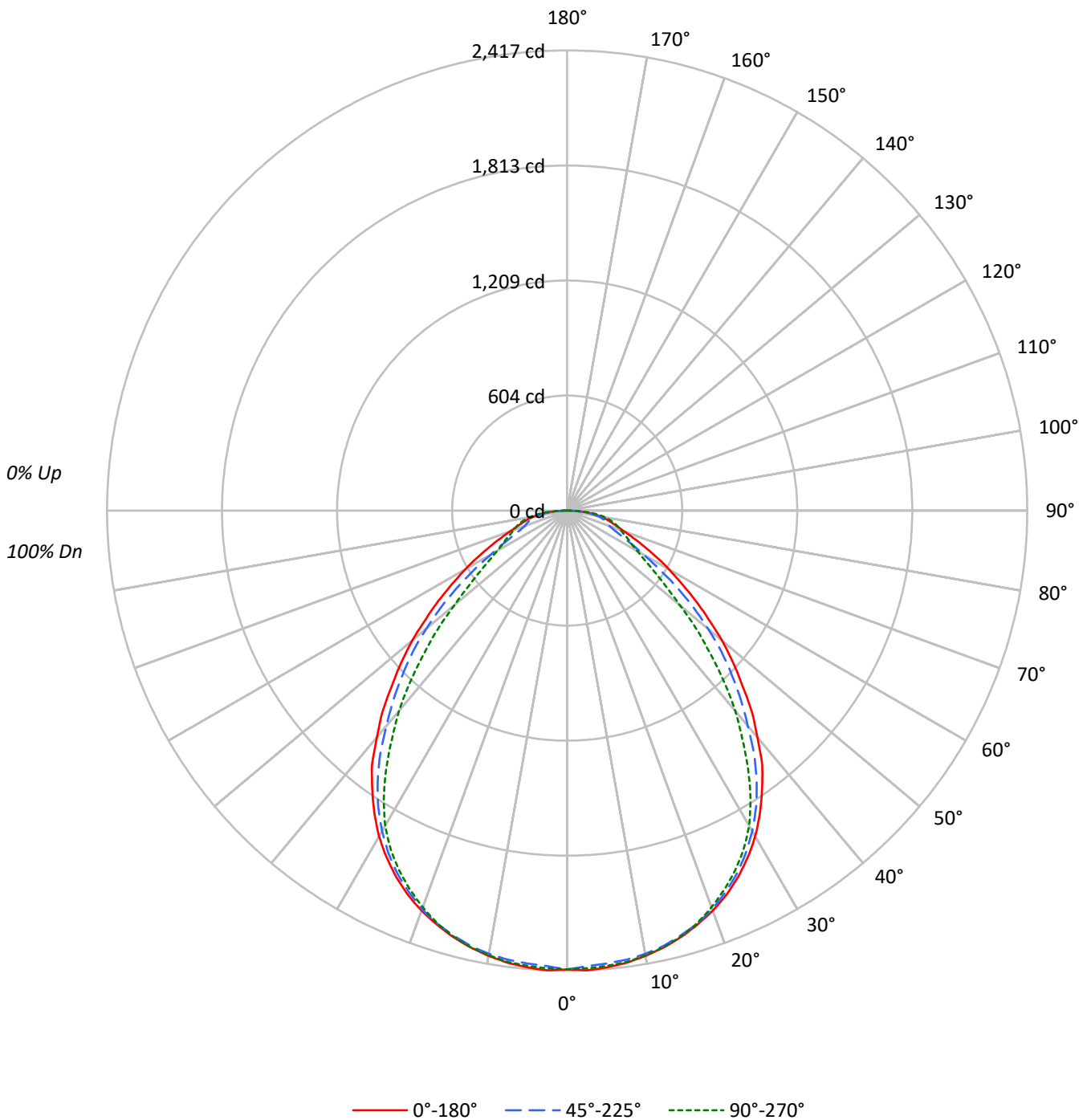
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6484	6484	6484
5°	6506	6451	6483
10°	6489	6459	6479
15°	6458	6434	6448
20°	6403	6379	6348
25°	6307	6256	6195
30°	6139	6042	5940
35°	5865	5702	5445
40°	5458	5183	4827
45°	4959	4661	4046
50°	4441	4047	3225
55°	3857	3303	2618
60°	3328	2498	2284
65°	2848	1996	2241
70°	2513	1859	2352
75°	2507	2130	2682
80°	2709	2484	3082
85°	2902	2643	3535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.2	4.4
10°-20°	652.9	12.6
20°-30°	968.7	18.7
30°-40°	1075.7	20.7
40°-50°	927.8	17.9
50°-60°	629.1	12.1
60°-70°	363.8	7.0
70°-80°	237.5	4.6
80°-90°	103.5	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°	1849.7	35.7
0°-40°	2925.4	56.4
0°-60°	4482.3	86.4
0°-90°	5187.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5187.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2408	2399	2388	2405	2400	229
15°	2318	2313	2310	2325	2314	654
25°	2124	2122	2107	2101	2087	977
35°	1785	1768	1736	1688	1658	1113
45°	1303	1283	1225	1124	1063	1007
55°	822	805	704	599	558	739
65°	447	397	313	321	352	450
75°	241	218	205	229	258	257
85°	94	92	86	119	114	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2409.7	2409.7	2409.7	2409.7	2409.7
2.5°	2416.9	2408.4	2395.2	2409.7	2406.0
5°	2408.4	2398.8	2388.0	2404.8	2400.0
7.5°	2395.2	2385.5	2379.5	2394.0	2391.6
10°	2374.7	2367.5	2363.8	2381.9	2371.1
12.5°	2349.4	2343.4	2342.2	2356.6	2348.2
15°	2318.0	2313.2	2309.6	2325.3	2314.4
17.5°	2279.5	2277.1	2274.6	2281.9	2272.2
20°	2236.1	2233.7	2227.6	2228.8	2216.8
22.5°	2185.4	2183.0	2171.0	2168.6	2155.3
25°	2124.0	2121.6	2107.1	2101.1	2086.6
27.5°	2054.1	2055.3	2031.1	2020.3	2007.0
30°	1975.7	1970.9	1944.4	1926.3	1911.8
32.5°	1884.1	1878.1	1846.7	1817.8	1792.5
35°	1785.2	1768.4	1735.8	1687.6	1657.5
37.5°	1684.0	1661.1	1612.9	1551.4	1511.6
40°	1553.8	1529.7	1475.4	1405.5	1374.2
42.5°	1436.9	1411.6	1351.3	1269.3	1219.9
45°	1303.1	1282.6	1224.7	1123.5	1063.2
47.5°	1181.3	1159.6	1100.6	981.2	922.2
50°	1060.8	1036.7	966.8	837.8	770.3
52.5°	935.4	922.2	836.6	707.6	653.3
55°	822.1	805.2	704.0	599.1	558.1
57.5°	713.6	685.9	576.2	497.8	482.2
60°	618.4	579.8	464.1	420.7	424.3
62.5°	528.0	482.2	380.9	360.4	380.9
65°	447.2	396.6	313.4	320.6	352.0
67.5°	376.1	327.9	266.4	295.3	321.8
70°	319.4	279.7	236.3	268.8	298.9
72.5°	273.6	247.1	221.8	247.1	279.7
75°	241.1	218.2	204.9	229.0	258.0
77.5°	211.0	192.9	186.8	206.1	230.2
80°	174.8	166.3	160.3	185.6	198.9
82.5°	135.0	131.4	126.6	157.9	163.9
85°	94.0	91.6	85.6	119.3	114.5
87.5°	49.4	47.0	43.4	62.7	56.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)