

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: P476348

Luminaire Tested: **14GR-LD5-60-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476348
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-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: 6294.2 lumens
Efficiency: N/A
Efficacy: 120.8 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

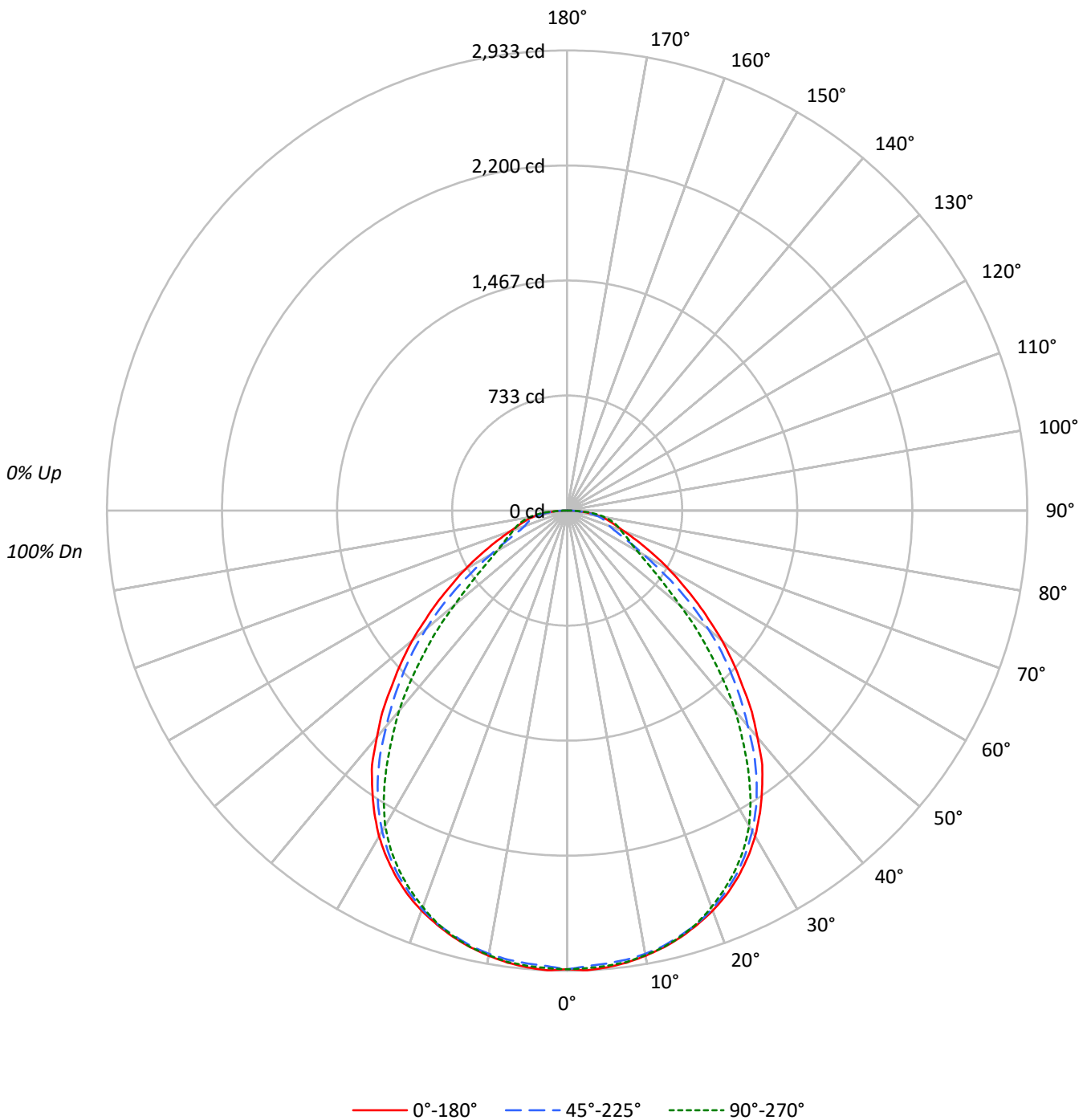
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476348

CATALOG NUMBER: 14GR-LD5-60-A125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476348

CATALOG NUMBER: 14GR-LD5-60-A125-UNV-L850-CD1-U

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°	7868	7868	7868
5°	7894	7827	7867
10°	7874	7838	7862
15°	7836	7808	7824
20°	7770	7741	7703
25°	7652	7592	7518
30°	7449	7331	7208
35°	7116	6919	6607
40°	6623	6289	5858
45°	6017	5656	4910
50°	5389	4911	3913
55°	4680	4008	3177
60°	4039	3031	2771
65°	3456	2422	2720
70°	3050	2256	2854
75°	3041	2586	3254
80°	3287	3014	3739
85°	3523	3208	4292



TEST NUMBER: P476348

CATALOG NUMBER: 14GR-LD5-60-A125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	4.4
10°-20°	792.2	12.6
20°-30°	1175.4	18.7
30°-40°	1305.3	20.7
40°-50°	1125.8	17.9
50°-60°	763.4	12.1
60°-70°	441.4	7.0
70°-80°	288.2	4.6
80°-90°	125.7	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°	2244.5	35.7
0°-40°	3549.8	56.4
0°-60°	5439.0	86.4
0°-90°	6294.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6294.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2924	2924	2924	2924	2924	
5°	2922	2911	2898	2918	2912	278
15°	2813	2807	2802	2822	2808	793
25°	2577	2574	2557	2550	2532	1185
35°	2166	2146	2106	2048	2011	1350
45°	1581	1556	1486	1363	1290	1222
55°	998	977	854	727	677	896
65°	543	481	380	389	427	546
75°	292	265	249	278	313	312
85°	114	111	104	145	139	121
90°	0	0	0	0	0	



TEST NUMBER: P476348

CATALOG NUMBER: 14GR-LD5-60-A125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2923.9	2923.9	2923.9	2923.9	2923.9
2.5°	2932.7	2922.5	2906.4	2923.9	2919.5
5°	2922.5	2910.8	2897.6	2918.1	2912.2
7.5°	2906.4	2894.7	2887.4	2904.9	2902.0
10°	2881.5	2872.7	2868.4	2890.3	2877.1
12.5°	2850.8	2843.5	2842.0	2859.6	2849.3
15°	2812.8	2806.9	2802.5	2821.5	2808.4
17.5°	2766.0	2763.0	2760.1	2768.9	2757.2
20°	2713.3	2710.4	2703.1	2704.5	2689.9
22.5°	2651.9	2648.9	2634.3	2631.4	2615.3
25°	2577.3	2574.4	2556.8	2549.5	2531.9
27.5°	2492.4	2493.9	2464.6	2451.5	2435.4
30°	2397.4	2391.5	2359.3	2337.4	2319.8
32.5°	2286.2	2278.9	2240.9	2205.8	2175.0
35°	2166.3	2145.8	2106.3	2047.8	2011.2
37.5°	2043.4	2015.6	1957.1	1882.5	1834.2
40°	1885.4	1856.2	1790.3	1705.5	1667.5
42.5°	1743.5	1712.8	1639.7	1540.2	1480.3
45°	1581.2	1556.3	1486.1	1363.2	1290.1
47.5°	1433.4	1407.1	1335.4	1190.6	1119.0
50°	1287.2	1257.9	1173.1	1016.6	934.7
52.5°	1135.1	1119.0	1015.1	858.6	792.8
55°	997.6	977.1	854.2	727.0	677.2
57.5°	865.9	832.3	699.2	604.1	585.1
60°	750.4	703.6	563.1	510.5	514.9
62.5°	640.7	585.1	462.2	437.3	462.2
65°	542.7	481.2	380.3	389.1	427.1
67.5°	456.4	397.9	323.3	358.4	390.5
70°	387.6	339.3	286.7	326.2	362.7
72.5°	332.0	299.9	269.1	299.9	339.3
75°	292.5	264.7	248.7	277.9	313.0
77.5°	256.0	234.0	226.7	250.1	279.4
80°	212.1	201.9	194.5	225.3	241.3
82.5°	163.8	159.4	153.6	191.6	198.9
85°	114.1	111.2	103.9	144.8	139.0
87.5°	60.0	57.0	52.7	76.1	68.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)