

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: P476330

Luminaire Tested: **14GR-LD5-60-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476330
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6170.8 lumens
Efficiency: N/A
Efficacy: 118.4 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

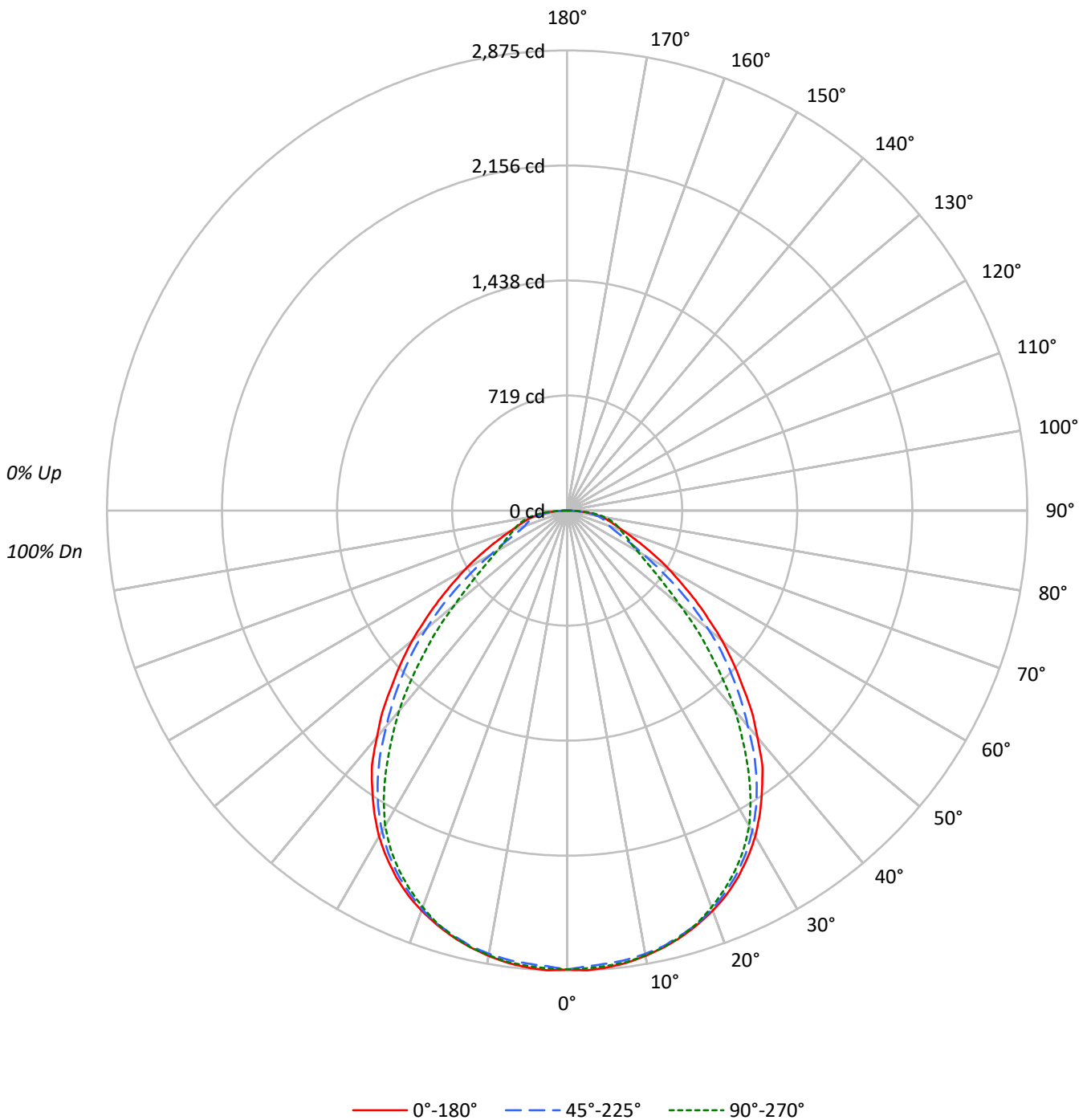
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7714	7714	7714
5°	7740	7674	7712
10°	7719	7684	7708
15°	7682	7655	7670
20°	7618	7589	7552
25°	7502	7443	7370
30°	7303	7187	7067
35°	6977	6784	6478
40°	6493	6166	5743
45°	5899	5545	4813
50°	5283	4815	3836
55°	4588	3929	3115
60°	3960	2971	2717
65°	3387	2374	2666
70°	2990	2212	2798
75°	2982	2535	3191
80°	3222	2955	3667
85°	3455	3143	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	4.4
10°-20°	776.7	12.6
20°-30°	1152.4	18.7
30°-40°	1279.7	20.7
40°-50°	1103.7	17.9
50°-60°	748.4	12.1
60°-70°	432.8	7.0
70°-80°	282.5	4.6
80°-90°	123.2	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°	2200.5	35.7
0°-40°	3480.2	56.4
0°-60°	5332.3	86.4
0°-90°	6170.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6170.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2867	2867	2867	2867	2867	
5°	2865	2854	2841	2861	2855	272
15°	2758	2752	2748	2766	2753	778
25°	2527	2524	2507	2500	2482	1162
35°	2124	2104	2065	2008	1972	1324
45°	1550	1526	1457	1336	1265	1198
55°	978	958	838	713	664	879
65°	532	472	373	381	419	535
75°	287	260	244	272	307	305
85°	112	109	102	142	136	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2866.6	2866.6	2866.6	2866.6	2866.6
2.5°	2875.2	2865.2	2849.4	2866.6	2862.3
5°	2865.2	2853.7	2840.8	2860.9	2855.1
7.5°	2849.4	2837.9	2830.8	2848.0	2845.1
10°	2825.0	2816.4	2812.1	2833.6	2820.7
12.5°	2794.9	2787.7	2786.3	2803.5	2793.5
15°	2757.6	2751.9	2747.6	2766.2	2753.3
17.5°	2711.7	2708.9	2706.0	2714.6	2703.1
20°	2660.1	2657.2	2650.1	2651.5	2637.2
22.5°	2599.9	2597.0	2582.7	2579.8	2564.0
25°	2526.7	2523.9	2506.7	2499.5	2482.3
27.5°	2443.6	2445.0	2416.3	2403.4	2387.6
30°	2350.4	2344.6	2313.1	2291.6	2274.4
32.5°	2241.4	2234.2	2196.9	2162.5	2132.4
35°	2123.8	2103.7	2065.0	2007.6	1971.8
37.5°	2003.3	1976.1	1918.7	1845.6	1798.3
40°	1848.5	1819.8	1755.2	1672.1	1634.8
42.5°	1709.4	1679.2	1607.5	1510.0	1451.2
45°	1550.2	1525.8	1457.0	1336.5	1264.8
47.5°	1405.3	1379.5	1309.3	1167.3	1097.0
50°	1261.9	1233.3	1150.1	996.6	916.3
52.5°	1112.8	1097.0	995.2	841.8	777.2
55°	978.0	957.9	837.5	712.7	664.0
57.5°	848.9	816.0	685.5	592.2	573.6
60°	735.7	689.8	552.1	500.5	504.8
62.5°	628.1	573.6	453.2	428.8	453.2
65°	532.0	471.8	372.8	381.4	418.7
67.5°	447.4	390.1	316.9	351.3	382.9
70°	380.0	332.7	281.1	319.8	355.6
72.5°	325.5	294.0	263.9	294.0	332.7
75°	286.8	259.6	243.8	272.5	306.9
77.5°	251.0	229.4	222.3	245.2	273.9
80°	207.9	197.9	190.7	220.8	236.6
82.5°	160.6	156.3	150.6	187.9	195.0
85°	111.9	109.0	101.8	142.0	136.2
87.5°	58.8	55.9	51.6	74.6	67.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)