

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: P476213

Luminaire Tested: **14GR-LD5-60-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476213
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-F125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5931.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

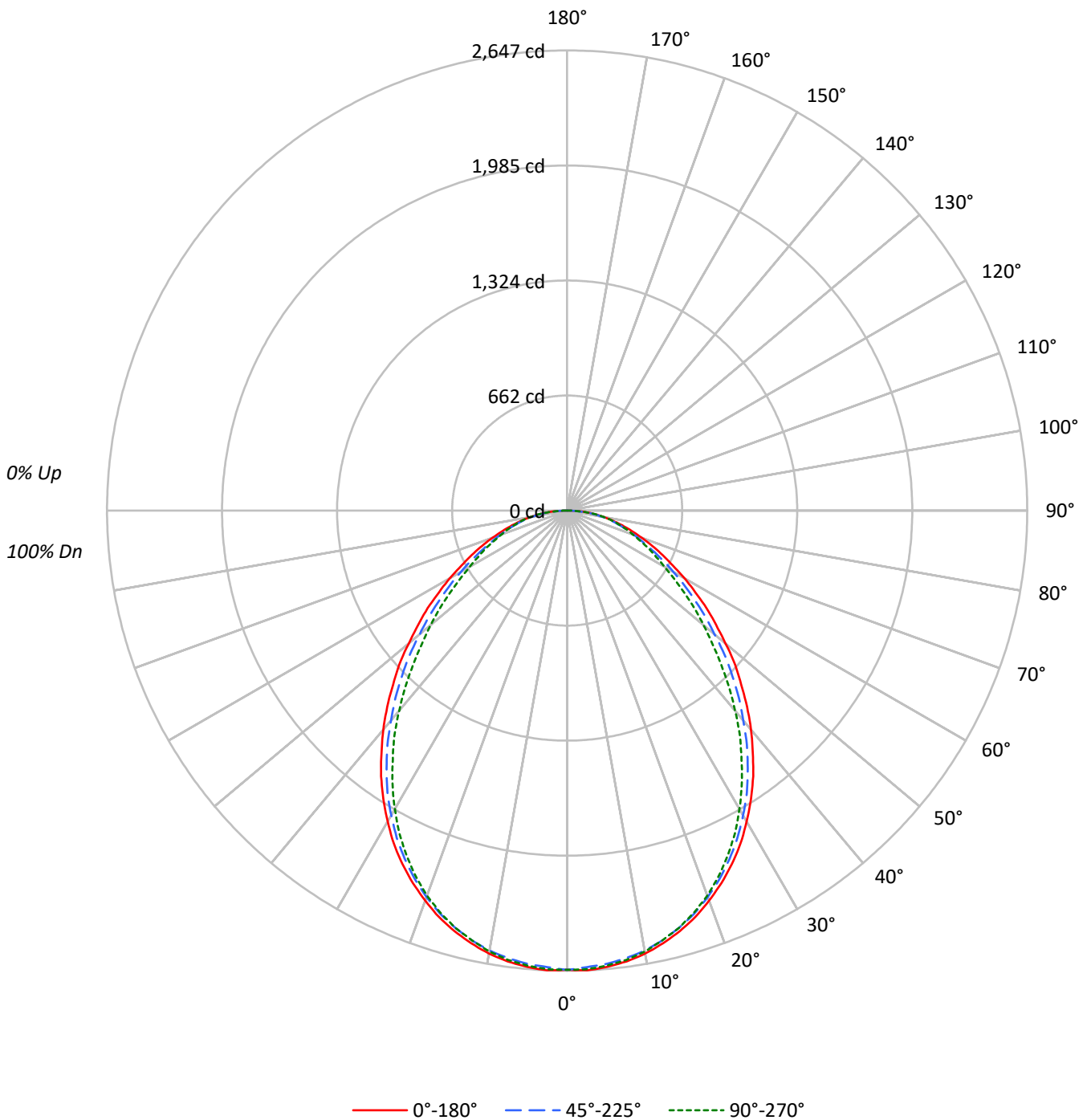
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7109	7109	7109
5°	7118	7070	7096
10°	7071	7022	7037
15°	6978	6921	6921
20°	6839	6773	6749
25°	6660	6563	6494
30°	6417	6291	6160
35°	6129	5951	5746
40°	5782	5539	5281
45°	5391	5112	4766
50°	4982	4635	4289
55°	4596	4201	3858
60°	4191	3798	3483
65°	3854	3447	3292
70°	3577	3224	3160
75°	3414	3132	3189
80°	3343	3154	3322
85°	3436	3100	3310



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	4.2
10°-20°	701.6	11.8
20°-30°	1017.8	17.2
30°-40°	1130.0	19.1
40°-50°	1033.9	17.4
50°-60°	805.4	13.6
60°-70°	550.2	9.3
70°-80°	328.7	5.5
80°-90°	114.3	1.9
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°	1968.6	33.2
0°-40°	3098.7	52.2
0°-60°	4937.9	83.3
0°-90°	5931.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5931.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2642	2642	2642	2642	2642	
5°	2635	2630	2617	2631	2627	250
15°	2505	2498	2484	2494	2484	705
25°	2243	2233	2210	2204	2187	1031
35°	1866	1849	1811	1773	1749	1164
45°	1417	1398	1343	1281	1252	1094
55°	980	950	896	843	822	875
65°	605	582	541	517	517	603
75°	328	315	301	307	307	348
85°	111	106	100	110	107	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2641.8	2641.8	2641.8	2641.8	2641.8
2.5°	2647.3	2640.5	2628.3	2641.8	2640.5
5°	2635.0	2629.6	2617.4	2631.0	2626.9
7.5°	2616.1	2610.6	2597.1	2612.0	2606.6
10°	2587.6	2580.8	2569.9	2580.8	2575.3
12.5°	2549.6	2542.8	2531.9	2541.4	2531.9
15°	2504.8	2498.0	2484.4	2493.9	2484.4
17.5°	2451.9	2442.4	2431.5	2432.9	2424.7
20°	2388.1	2378.6	2365.0	2365.0	2356.9
22.5°	2318.9	2309.4	2293.1	2287.7	2276.8
25°	2242.9	2233.4	2210.3	2203.6	2187.3
27.5°	2160.1	2145.2	2122.1	2107.2	2090.9
30°	2065.2	2052.9	2024.5	2002.7	1982.4
32.5°	1968.8	1956.6	1924.0	1891.5	1869.8
35°	1865.7	1849.4	1811.4	1773.4	1749.0
37.5°	1754.4	1740.9	1697.4	1651.3	1632.3
40°	1645.9	1628.2	1576.7	1529.2	1503.4
42.5°	1531.9	1512.9	1461.4	1407.1	1378.6
45°	1416.6	1397.6	1343.3	1280.9	1252.4
47.5°	1309.4	1285.0	1228.0	1165.6	1131.6
50°	1190.0	1169.6	1107.2	1047.5	1024.4
52.5°	1078.7	1059.7	1001.4	943.0	921.3
55°	979.7	949.8	895.5	842.6	822.3
57.5°	873.8	849.4	797.8	747.6	727.3
60°	778.8	759.8	705.6	662.2	647.2
62.5°	685.2	670.3	620.1	587.5	578.0
65°	605.2	582.1	541.4	517.0	517.0
67.5°	529.2	506.1	470.8	461.3	453.2
70°	454.6	436.9	409.8	401.6	401.6
72.5°	388.1	373.1	354.1	351.4	356.9
75°	328.4	314.8	301.2	306.7	306.7
77.5°	268.7	259.2	253.7	256.4	261.9
80°	215.7	209.0	203.5	210.3	214.4
82.5°	165.5	158.8	154.7	164.2	162.8
85°	111.3	105.8	100.4	109.9	107.2
87.5°	55.6	52.9	43.4	48.8	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)