

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: P476185

Luminaire Tested: **14GR-LD5-50-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476185  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-F1-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F1 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5065.8 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.2  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

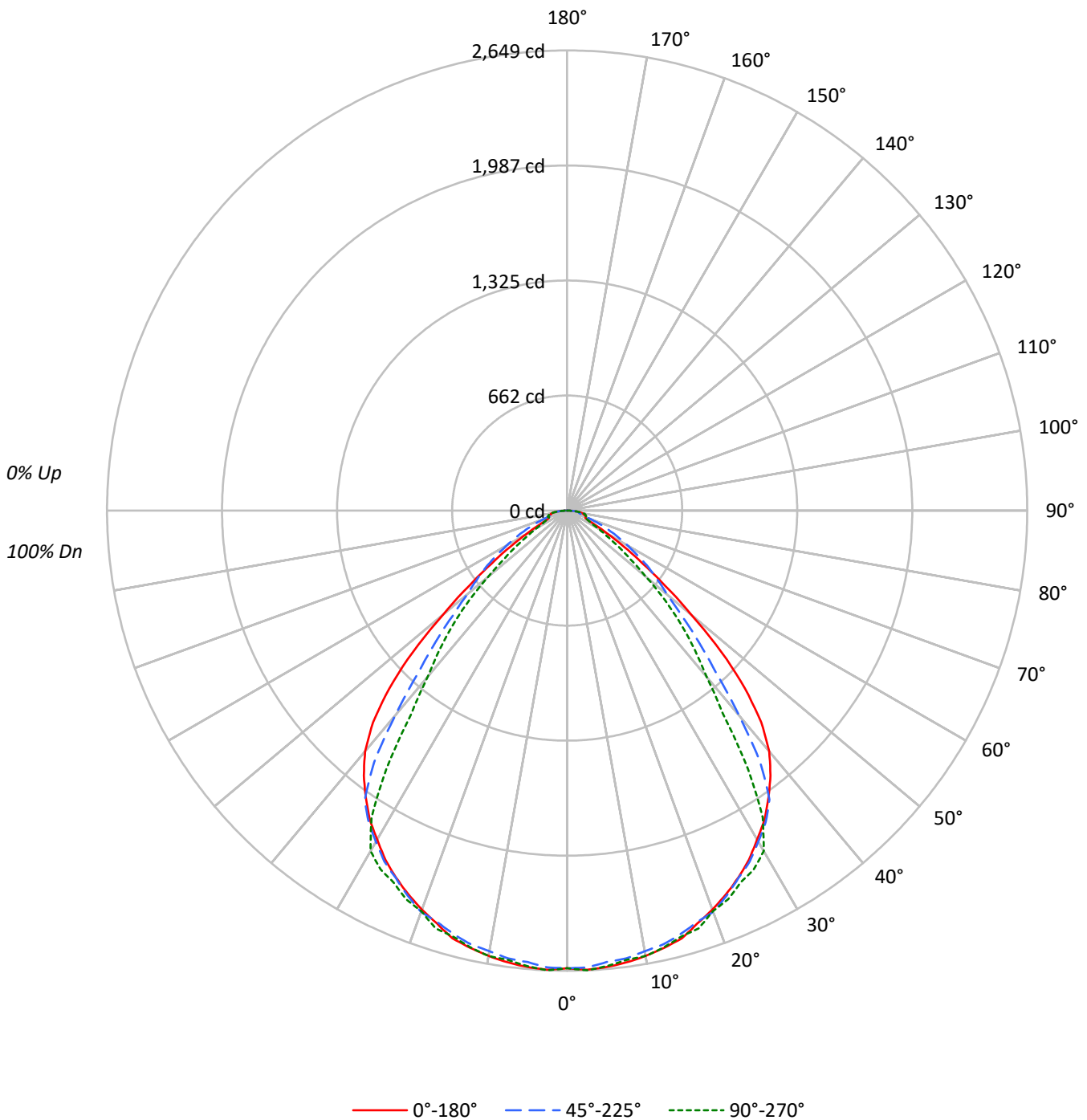
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	82	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44					44			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33					33			

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

	0°	45°	90°
0°	7090	7090	7090
5°	7124	7048	7109
10°	7114	7036	7114
15°	7103	7032	7071
20°	7001	7041	7025
25°	6921	6930	7014
30°	6794	6838	7032
35°	6633	6670	5962
40°	6356	5409	4383
45°	5515	4080	3540
50°	3918	3134	2481
55°	2488	2688	1663
60°	1466	2152	1099
65°	867	1679	849
70°	892	1138	870
75°	1091	885	1150
80°	1407	1099	1539
85°	1488	1488	1488



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.8	4.9
10°-20°	715.4	14.1
20°-30°	1081.8	21.4
30°-40°	1204.8	23.8
40°-50°	881.8	17.4
50°-60°	486.0	9.6
60°-70°	248.5	4.9
70°-80°	141.4	2.8
80°-90°	56.3	1.1
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°	2047.1	40.4
0°-40°	3251.8	64.2
0°-60°	4619.7	91.2
0°-90°	5065.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2635	2635	2635	2635	2635	
5°	2637	2637	2609	2626	2632	251
15°	2550	2521	2524	2555	2538	717
25°	2331	2326	2334	2374	2362	1073
35°	2019	2022	2030	1892	1815	1260
45°	1449	1336	1072	976	930	1090
55°	530	624	573	491	354	496
65°	136	323	264	252	133	157
75°	105	182	85	162	111	110
85°	48	60	48	65	48	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2634.6	2634.6	2634.6	2634.6	2634.6
2.5°	2645.9	2645.9	2631.8	2648.8	2648.8
5°	2637.4	2637.4	2609.1	2626.1	2631.8
7.5°	2623.3	2623.3	2600.6	2614.7	2609.1
10°	2603.4	2589.2	2575.0	2614.7	2603.4
12.5°	2577.9	2549.5	2558.0	2555.2	2575.0
15°	2549.5	2521.2	2524.0	2555.2	2538.2
17.5°	2492.8	2495.6	2484.3	2507.0	2521.2
20°	2444.6	2453.1	2458.8	2472.9	2453.1
22.5°	2390.7	2393.5	2399.2	2419.1	2421.9
25°	2331.1	2325.5	2334.0	2373.7	2362.3
27.5°	2265.9	2263.1	2277.3	2311.3	2328.3
30°	2186.5	2197.9	2200.7	2263.1	2263.1
32.5°	2112.8	2112.8	2127.0	2158.2	2095.8
35°	2019.2	2022.0	2030.5	1891.6	1815.0
37.5°	1922.8	1914.3	1826.3	1574.0	1471.9
40°	1809.3	1789.5	1539.9	1313.0	1247.8
42.5°	1653.4	1593.8	1270.5	1134.4	1086.2
45°	1449.2	1335.7	1072.0	975.6	930.2
47.5°	1205.3	1100.3	890.5	825.3	762.9
50°	935.9	913.2	748.7	692.0	592.7
52.5°	711.8	757.2	657.9	584.2	456.6
55°	530.3	623.9	572.9	490.6	354.5
57.5°	388.5	519.0	482.1	416.9	266.6
60°	272.3	439.6	399.9	351.7	204.2
62.5°	192.8	380.0	329.0	300.6	156.0
65°	136.1	323.3	263.7	252.4	133.3
67.5°	113.4	272.3	201.4	224.0	113.4
70°	113.4	226.9	144.6	198.5	110.6
72.5°	113.4	198.5	107.8	181.5	116.3
75°	104.9	181.5	85.1	161.6	110.6
77.5°	96.4	153.1	73.7	139.0	107.8
80°	90.8	110.6	70.9	113.4	99.3
82.5°	73.7	79.4	65.2	87.9	76.6
85°	48.2	59.6	48.2	65.2	48.2
87.5°	22.7	31.2	22.7	28.4	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)