

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: P475949

Luminaire Tested: **22GR-LD5-60-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475949  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-60-F125-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5971.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

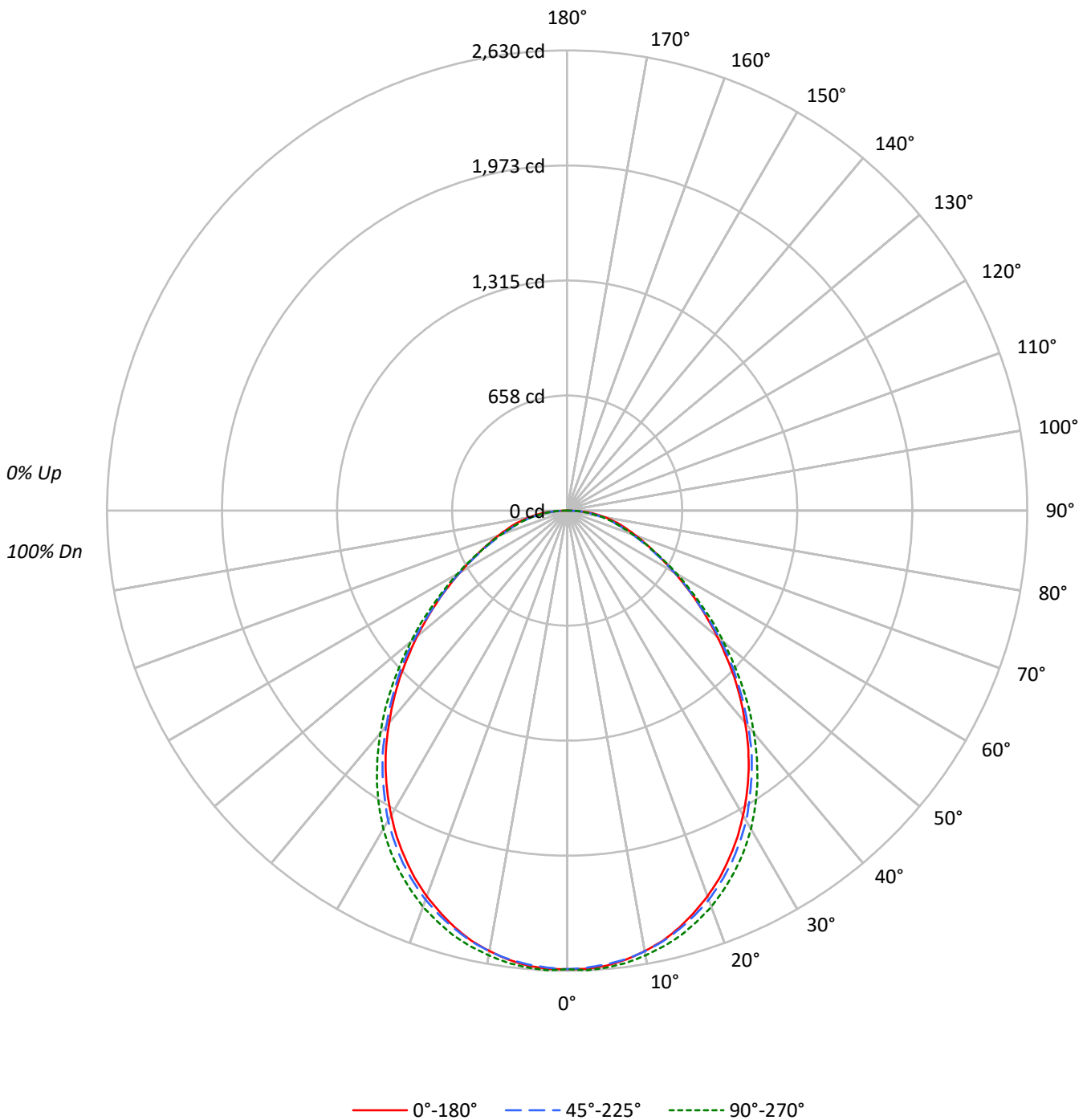
Input Watts (W): 44.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30

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

	0°	45°	90°
0°	7054	7054	7054
5°	7051	7032	7081
10°	6985	6989	7053
15°	6878	6901	7002
20°	6717	6777	6899
25°	6508	6599	6742
30°	6251	6359	6526
35°	5944	6040	6227
40°	5559	5650	5836
45°	5146	5225	5377
50°	4686	4762	4884
55°	4232	4244	4368
60°	3795	3809	3900
65°	3459	3387	3466
70°	3290	3106	3161
75°	3311	2995	3011
80°	3437	3028	3005
85°	3770	3202	3032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	4.1
10°-20°	699.6	11.7
20°-30°	1023.9	17.1
30°-40°	1151.2	19.3
40°-50°	1061.7	17.8
50°-60°	818.3	13.7
60°-70°	539.9	9.0
70°-80°	314.2	5.3
80°-90°	114.4	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°	1971.2	33.0
0°-40°	3122.4	52.3
0°-60°	5002.3	83.8
0°-90°	5971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5971.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2621	2621	2621	2621	2621	
5°	2610	2605	2603	2616	2621	247
15°	2469	2469	2477	2500	2513	695
25°	2192	2203	2222	2253	2271	1008
35°	1809	1818	1839	1876	1895	1128
45°	1352	1354	1373	1401	1413	1041
55°	902	901	905	920	931	809
65°	543	540	532	536	544	545
75°	318	305	288	283	290	336
85°	122	121	104	96	98	129
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2621.2	2621.2	2621.2	2621.2	2621.2
2.5°	2621.2	2615.7	2614.2	2624.1	2629.6
5°	2610.2	2604.7	2603.2	2615.7	2621.2
7.5°	2588.2	2583.8	2585.2	2599.2	2606.1
10°	2556.3	2554.8	2557.7	2572.8	2581.2
12.5°	2518.9	2517.4	2522.9	2539.4	2550.8
15°	2469.0	2469.0	2477.1	2499.5	2513.4
17.5°	2409.3	2413.3	2425.8	2448.1	2463.2
20°	2345.5	2349.9	2366.4	2391.3	2409.3
22.5°	2274.8	2280.6	2297.1	2327.6	2342.9
25°	2191.9	2202.9	2222.4	2252.8	2270.7
27.5°	2105.8	2118.3	2136.2	2174.0	2190.5
30°	2011.6	2020.0	2046.4	2080.9	2100.3
32.5°	1911.9	1920.3	1942.3	1984.1	2000.6
35°	1809.3	1817.7	1838.6	1876.0	1895.4
37.5°	1698.6	1705.5	1730.5	1759.4	1780.3
40°	1582.4	1591.9	1608.4	1643.2	1661.2
42.5°	1468.7	1472.8	1490.7	1525.6	1539.1
45°	1352.2	1353.6	1373.1	1400.6	1413.0
47.5°	1231.6	1234.5	1258.0	1274.5	1286.9
50°	1119.4	1120.9	1137.4	1152.8	1166.7
52.5°	1007.3	1007.3	1015.7	1032.2	1050.1
55°	902.1	900.6	904.6	920.0	931.0
57.5°	802.4	800.9	806.4	815.9	824.4
60°	705.2	702.3	707.8	713.7	724.7
62.5°	619.5	622.0	615.1	623.5	631.9
65°	543.2	540.3	531.9	536.3	544.3
67.5°	478.0	473.9	460.0	462.6	472.5
70°	418.2	410.2	394.8	394.8	401.7
72.5°	364.3	355.9	336.5	338.0	340.9
75°	318.5	305.0	288.1	282.6	289.6
77.5°	268.7	257.7	242.3	238.3	241.2
80°	221.8	213.3	195.4	189.9	193.9
82.5°	175.9	169.0	148.1	144.1	145.5
85°	122.1	120.6	103.7	95.7	98.2
87.5°	65.2	66.3	53.9	48.4	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)