

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: P476216

Luminaire Tested: **14GR-LD5-28-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476216  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-F125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2823.2 lumens  
Efficiency: N/A  
Efficacy: 121.2 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

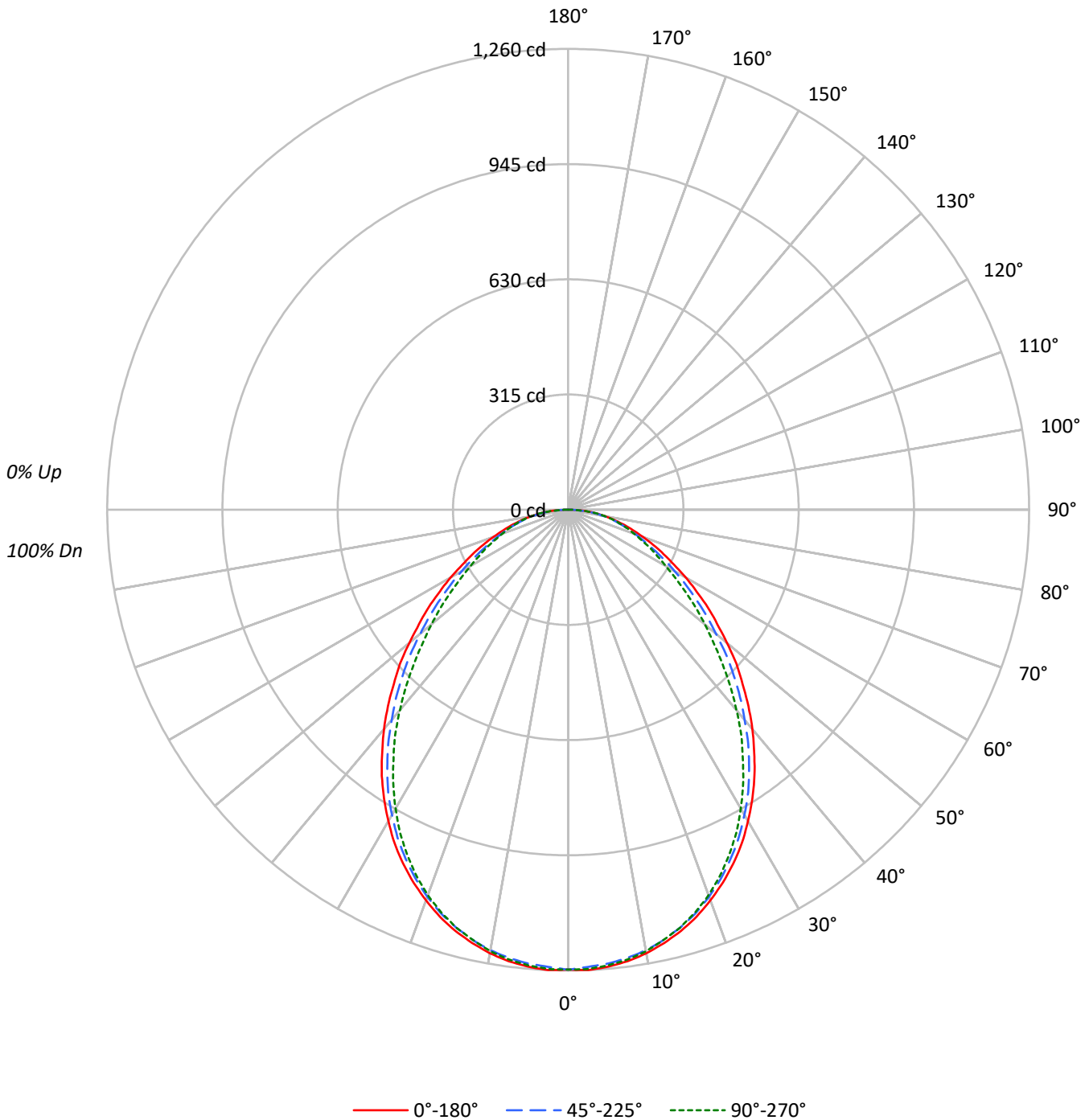
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3384	3384	3384
5°	3388	3365	3378
10°	3365	3342	3349
15°	3321	3294	3294
20°	3255	3224	3212
25°	3170	3124	3091
30°	3054	2994	2932
35°	2917	2832	2735
40°	2752	2636	2514
45°	2566	2433	2269
50°	2371	2206	2041
55°	2188	2000	1836
60°	1995	1807	1658
65°	1834	1641	1567
70°	1703	1534	1504
75°	1625	1491	1518
80°	1592	1502	1581
85°	1636	1476	1575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.6	4.2
10°-20°	333.9	11.8
20°-30°	484.5	17.2
30°-40°	537.9	19.1
40°-50°	492.1	17.4
50°-60°	383.4	13.6
60°-70°	261.9	9.3
70°-80°	156.5	5.5
80°-90°	54.4	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°	937.0	33.2
0°-40°	1474.9	52.2
0°-60°	2350.4	83.3
0°-90°	2823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1254	1252	1246	1252	1250	119
15°	1192	1189	1182	1187	1182	336
25°	1068	1063	1052	1049	1041	491
35°	888	880	862	844	832	554
45°	674	665	639	610	596	521
55°	466	452	426	401	391	416
65°	288	277	258	246	246	287
75°	156	150	143	146	146	166
85°	53	50	48	52	51	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1257.5	1257.5	1257.5	1257.5	1257.5
2.5°	1260.0	1256.8	1251.0	1257.5	1256.8
5°	1254.2	1251.7	1245.8	1252.3	1250.4
7.5°	1245.2	1242.6	1236.2	1243.3	1240.7
10°	1231.6	1228.4	1223.2	1228.4	1225.8
12.5°	1213.5	1210.3	1205.2	1209.7	1205.2
15°	1192.2	1189.0	1182.5	1187.1	1182.5
17.5°	1167.0	1162.5	1157.4	1158.0	1154.1
20°	1136.7	1132.2	1125.7	1125.7	1121.8
22.5°	1103.8	1099.2	1091.5	1088.9	1083.7
25°	1067.6	1063.1	1052.1	1048.9	1041.1
27.5°	1028.2	1021.1	1010.1	1003.0	995.3
30°	983.0	977.2	963.6	953.3	943.6
32.5°	937.1	931.3	915.8	900.3	890.0
35°	888.0	880.3	862.2	844.1	832.5
37.5°	835.1	828.6	808.0	786.0	777.0
40°	783.4	775.0	750.5	727.9	715.6
42.5°	729.2	720.1	695.6	669.7	656.2
45°	674.3	665.2	639.4	609.7	596.1
47.5°	623.2	611.6	584.5	554.8	538.6
50°	566.4	556.7	527.0	498.6	487.6
52.5°	513.4	504.4	476.6	448.9	438.5
55°	466.3	452.1	426.3	401.1	391.4
57.5°	415.9	404.3	379.8	355.9	346.2
60°	370.7	361.7	335.8	315.2	308.1
62.5°	326.2	319.0	295.2	279.7	275.1
65°	288.0	277.1	257.7	246.1	246.1
67.5°	251.9	240.9	224.1	219.6	215.7
70°	216.4	208.0	195.0	191.2	191.2
72.5°	184.7	177.6	168.6	167.3	169.9
75°	156.3	149.8	143.4	146.0	146.0
77.5°	127.9	123.4	120.8	122.1	124.6
80°	102.7	99.5	96.9	100.1	102.0
82.5°	78.8	75.6	73.6	78.1	77.5
85°	53.0	50.4	47.8	52.3	51.0
87.5°	26.5	25.2	20.7	23.3	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)