

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: P476207

Luminaire Tested: **14GR-LD5-28-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476207  
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-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: 2724.3 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

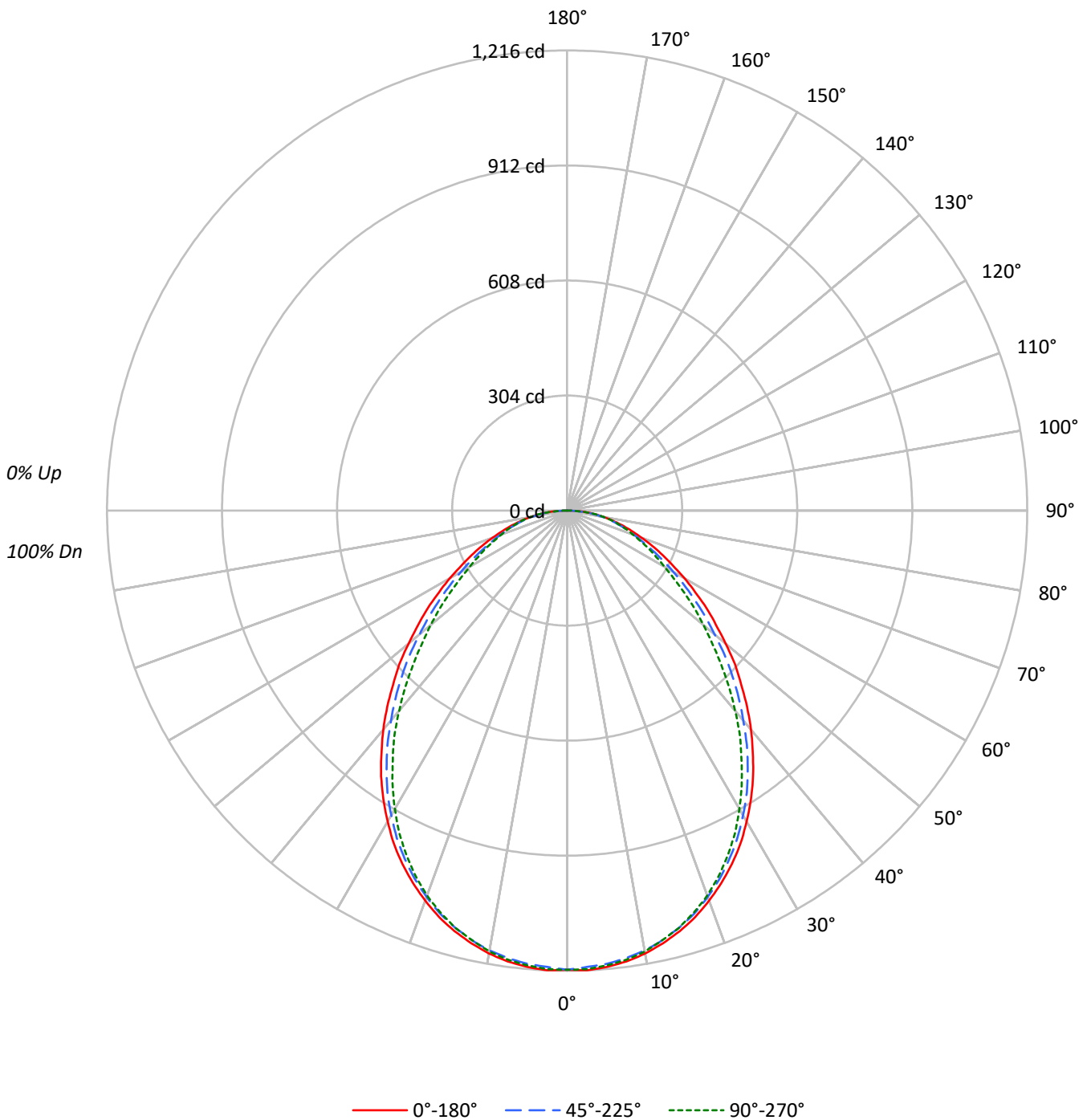
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3266	3266	3266
5°	3269	3247	3259
10°	3248	3225	3232
15°	3205	3179	3179
20°	3141	3111	3100
25°	3059	3015	2983
30°	2948	2889	2829
35°	2815	2733	2639
40°	2656	2544	2426
45°	2476	2348	2189
50°	2288	2129	1970
55°	2111	1930	1772
60°	1925	1744	1600
65°	1770	1584	1512
70°	1643	1481	1452
75°	1568	1439	1465
80°	1536	1449	1526
85°	1578	1423	1519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	4.2
10°-20°	322.3	11.8
20°-30°	467.5	17.2
30°-40°	519.1	19.1
40°-50°	474.9	17.4
50°-60°	369.9	13.6
60°-70°	252.8	9.3
70°-80°	151.0	5.5
80°-90°	52.5	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°	904.2	33.2
0°-40°	1423.3	52.2
0°-60°	2268.1	83.3
0°-90°	2724.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1210	1208	1202	1208	1207	115
15°	1150	1147	1141	1146	1141	324
25°	1030	1026	1015	1012	1005	474
35°	857	850	832	815	803	535
45°	651	642	617	588	575	503
55°	450	436	411	387	378	402
65°	278	267	249	238	238	277
75°	151	145	138	141	141	160
85°	51	49	46	50	49	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1213.5	1213.5	1213.5	1213.5	1213.5
2.5°	1215.9	1212.8	1207.2	1213.5	1212.8
5°	1210.3	1207.8	1202.2	1208.5	1206.6
7.5°	1201.6	1199.1	1192.9	1199.7	1197.2
10°	1188.5	1185.4	1180.4	1185.4	1182.9
12.5°	1171.1	1168.0	1163.0	1167.3	1163.0
15°	1150.5	1147.4	1141.2	1145.5	1141.2
17.5°	1126.2	1121.8	1116.9	1117.5	1113.7
20°	1096.9	1092.5	1086.3	1086.3	1082.6
22.5°	1065.1	1060.8	1053.3	1050.8	1045.8
25°	1030.2	1025.9	1015.3	1012.1	1004.7
27.5°	992.2	985.3	974.8	967.9	960.4
30°	948.6	943.0	929.9	919.9	910.6
32.5°	904.3	898.7	883.8	868.8	858.8
35°	857.0	849.5	832.0	814.6	803.4
37.5°	805.9	799.6	779.7	758.5	749.8
40°	756.0	747.9	724.2	702.4	690.6
42.5°	703.6	694.9	671.2	646.3	633.2
45°	650.7	641.9	617.0	588.3	575.3
47.5°	601.4	590.2	564.0	535.4	519.8
50°	546.6	537.2	508.6	481.1	470.5
52.5°	495.5	486.8	460.0	433.2	423.2
55°	450.0	436.3	411.3	387.0	377.7
57.5°	401.4	390.2	366.5	343.4	334.1
60°	357.7	349.0	324.1	304.1	297.3
62.5°	314.7	307.9	284.8	269.9	265.5
65°	278.0	267.4	248.7	237.5	237.5
67.5°	243.1	232.5	216.3	211.9	208.2
70°	208.8	200.7	188.2	184.5	184.5
72.5°	178.2	171.4	162.7	161.4	163.9
75°	150.8	144.6	138.4	140.9	140.9
77.5°	123.4	119.0	116.5	117.8	120.3
80°	99.1	96.0	93.5	96.6	98.5
82.5°	76.0	72.9	71.0	75.4	74.8
85°	51.1	48.6	46.1	50.5	49.2
87.5°	25.6	24.3	19.9	22.4	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)