

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: P257143

Luminaire Tested: **14GR-LD5-28-F125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-28-F125-UNV-L940-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH F125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.9 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

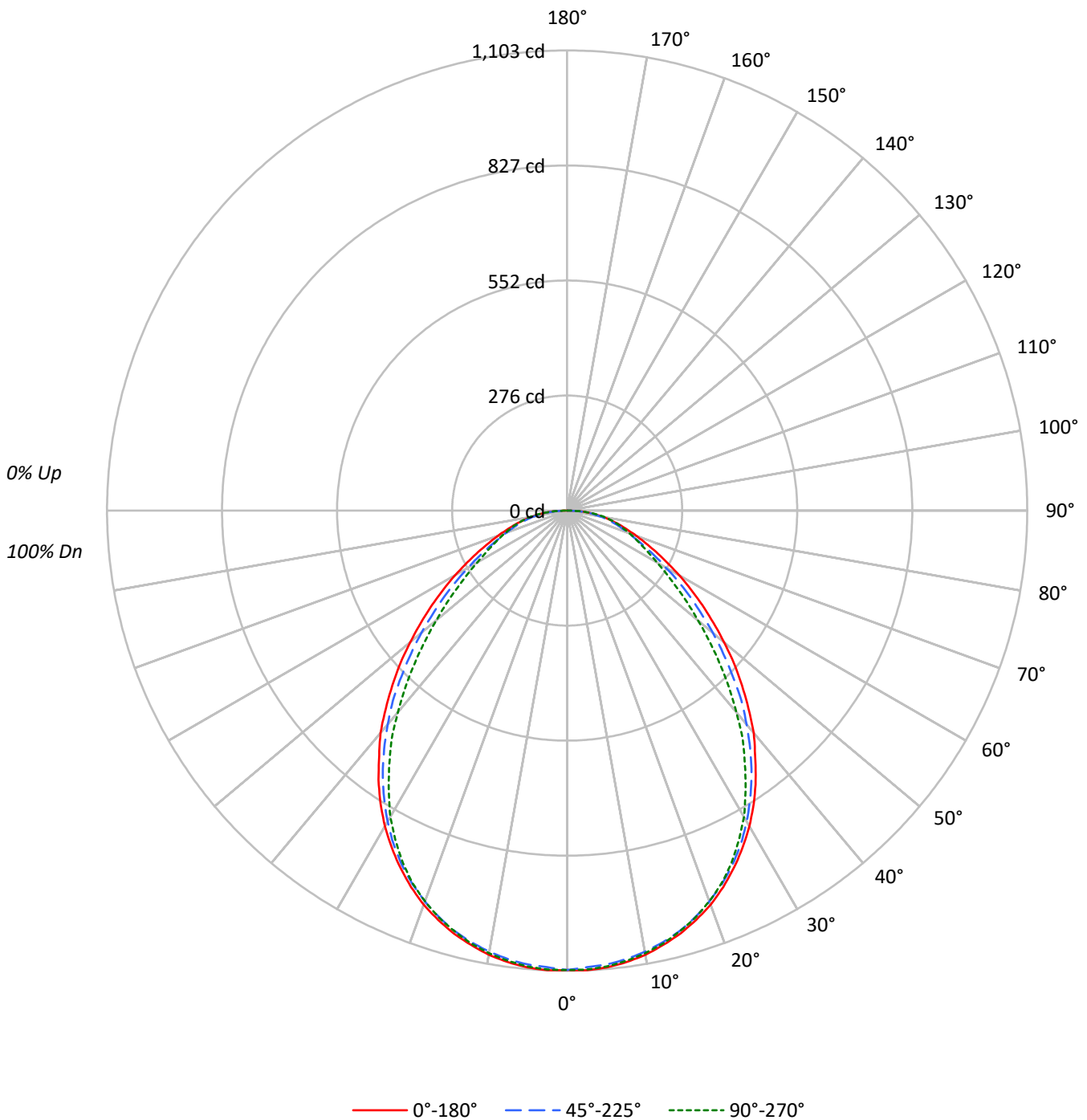
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	3711	3711	3711
5°	3717	3694	3709
10°	3699	3674	3686
15°	3662	3640	3642
20°	3606	3575	3573
25°	3515	3484	3464
30°	3398	3350	3298
35°	3242	3169	3056
40°	3061	2943	2774
45°	2823	2676	2460
50°	2571	2391	2148
55°	2323	2115	1873
60°	2090	1840	1674
65°	1875	1643	1570
70°	1731	1528	1557
75°	1669	1513	1639
80°	1677	1578	1777
85°	1794	1635	1860



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	4.2
10°-20°	294.7	12.0
20°-30°	431.3	17.6
30°-40°	479.3	19.6
40°-50°	430.9	17.6
50°-60°	322.2	13.1
60°-70°	212.2	8.7
70°-80°	129.0	5.3
80°-90°	48.3	2.0
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°	830.0	33.9
0°-40°	1309.3	53.4
0°-60°	2062.4	84.1
0°-90°	2451.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1099	1097	1092	1098	1097	104
15°	1050	1047	1043	1047	1044	296
25°	946	944	937	935	932	435
35°	788	784	770	754	743	492
45°	592	586	562	531	516	457
55°	396	387	360	330	319	355
65°	235	227	206	198	197	235
75°	128	122	116	122	126	136
85°	46	43	42	49	48	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.2	1101.2	1101.2	1101.2	1101.2
2.5°	1103.0	1100.6	1095.5	1101.7	1101.2
5°	1098.9	1096.6	1092.0	1097.8	1096.6
7.5°	1091.5	1088.6	1084.6	1090.3	1088.6
10°	1081.2	1078.4	1073.7	1080.0	1077.2
12.5°	1066.3	1064.6	1060.0	1064.6	1062.9
15°	1049.7	1047.4	1043.4	1046.8	1044.0
17.5°	1028.5	1026.2	1021.7	1026.2	1022.8
20°	1005.6	1002.8	997.0	1000.4	996.5
22.5°	977.0	974.1	969.0	970.7	967.2
25°	945.5	943.8	937.0	935.2	931.8
27.5°	910.7	907.7	901.5	898.0	891.1
30°	873.4	870.6	860.9	855.1	847.6
32.5°	832.7	828.2	816.7	807.0	796.1
35°	788.1	784.1	770.4	753.8	743.0
37.5°	740.0	737.8	720.6	700.0	691.4
40°	696.0	687.4	669.1	643.9	630.7
42.5°	643.4	637.6	618.2	590.1	573.5
45°	592.4	586.1	561.5	531.1	516.3
47.5°	542.6	535.7	507.7	477.9	460.7
50°	490.5	484.8	456.1	422.9	409.8
52.5°	441.9	434.4	404.6	374.9	363.4
55°	395.5	386.9	360.0	330.2	318.8
57.5°	351.4	341.2	315.4	289.6	282.2
60°	310.2	298.8	273.0	254.1	248.4
62.5°	270.1	261.5	238.6	224.4	220.9
65°	235.2	226.6	206.1	197.5	196.9
67.5°	203.2	194.6	178.5	176.3	177.4
70°	175.7	168.3	155.1	156.3	158.0
72.5°	150.0	143.1	135.1	137.9	141.4
75°	128.2	122.5	116.2	121.9	125.9
77.5°	107.6	101.9	98.5	104.1	108.7
80°	86.4	82.4	81.3	87.5	91.6
82.5°	67.0	63.6	61.8	69.8	71.6
85°	46.4	42.9	42.3	49.2	48.1
87.5°	24.6	21.8	21.8	25.7	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)