

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: P476236

Luminaire Tested: **14GR-LD5-36-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476236  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-F125-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3788.4 lumens  
Efficiency: N/A  
Efficacy: 130.6 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

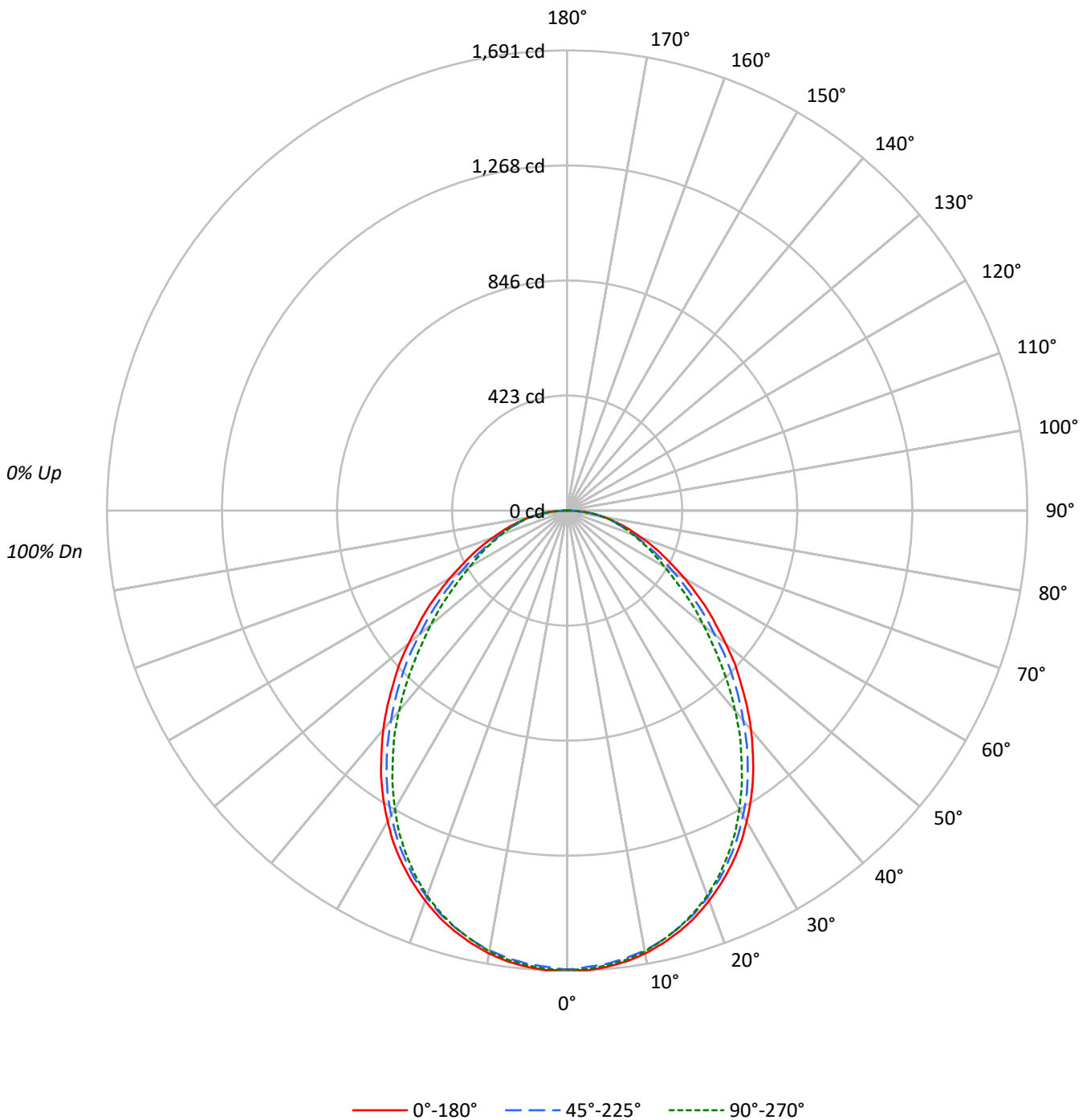
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4541	4541	4541
5°	4546	4516	4532
10°	4516	4485	4495
15°	4457	4421	4421
20°	4368	4326	4311
25°	4254	4192	4148
30°	4099	4018	3934
35°	3915	3801	3670
40°	3693	3538	3373
45°	3443	3265	3044
50°	3182	2961	2739
55°	2936	2684	2464
60°	2678	2426	2225
65°	2461	2202	2103
70°	2284	2059	2018
75°	2180	2000	2037
80°	2135	2015	2122
85°	2195	1979	2115



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.2	4.2
10°-20°	448.1	11.8
20°-30°	650.1	17.2
30°-40°	721.8	19.1
40°-50°	660.4	17.4
50°-60°	514.4	13.6
60°-70°	351.5	9.3
70°-80°	209.9	5.5
80°-90°	73.0	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°	1257.4	33.2
0°-40°	1979.3	52.2
0°-60°	3154.0	83.3
0°-90°	3788.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1683	1680	1672	1680	1678	160
15°	1600	1596	1587	1593	1587	451
25°	1433	1427	1412	1408	1397	659
35°	1192	1181	1157	1133	1117	743
45°	905	893	858	818	800	699
55°	626	607	572	538	525	559
65°	386	372	346	330	330	385
75°	210	201	192	196	196	222
85°	71	68	64	70	68	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1687.4	1687.4	1687.4	1687.4	1687.4
2.5°	1690.9	1686.6	1678.8	1687.4	1686.6
5°	1683.1	1679.6	1671.8	1680.5	1677.9
7.5°	1671.0	1667.5	1658.8	1668.4	1664.9
10°	1652.8	1648.4	1641.5	1648.4	1645.0
12.5°	1628.5	1624.2	1617.2	1623.3	1617.2
15°	1599.9	1595.6	1586.9	1593.0	1586.9
17.5°	1566.1	1560.0	1553.1	1554.0	1548.8
20°	1525.4	1519.3	1510.6	1510.6	1505.4
22.5°	1481.2	1475.1	1464.7	1461.2	1454.3
25°	1432.6	1426.6	1411.8	1407.5	1397.1
27.5°	1379.8	1370.2	1355.5	1346.0	1335.6
30°	1319.1	1311.3	1293.1	1279.2	1266.2
32.5°	1257.6	1249.8	1229.0	1208.2	1194.3
35°	1191.7	1181.3	1157.0	1132.8	1117.2
37.5°	1120.6	1112.0	1084.2	1054.8	1042.6
40°	1051.3	1040.0	1007.1	976.8	960.3
42.5°	978.5	966.4	933.4	898.8	880.6
45°	904.8	892.7	858.0	818.2	800.0
47.5°	836.4	820.8	784.3	744.5	722.8
50°	760.1	747.1	707.2	669.1	654.3
52.5°	689.0	676.9	639.6	602.3	588.5
55°	625.7	606.7	572.0	538.2	525.2
57.5°	558.1	542.5	509.6	477.5	464.5
60°	497.5	485.3	450.7	422.9	413.4
62.5°	437.7	428.1	396.1	375.3	369.2
65°	386.5	371.8	345.8	330.2	330.2
67.5°	338.0	323.3	300.7	294.7	289.5
70°	290.3	279.1	261.7	256.5	256.5
72.5°	247.9	238.3	226.2	224.5	227.9
75°	209.7	201.1	192.4	195.9	195.9
77.5°	171.6	165.5	162.1	163.8	167.3
80°	137.8	133.5	130.0	134.3	136.9
82.5°	105.7	101.4	98.8	104.9	104.0
85°	71.1	67.6	64.1	70.2	68.5
87.5°	35.5	33.8	27.7	31.2	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)