

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: P476302

Luminaire Tested: **14GR-LD5-50-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476302  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-A-UNV-L840-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5006.4 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

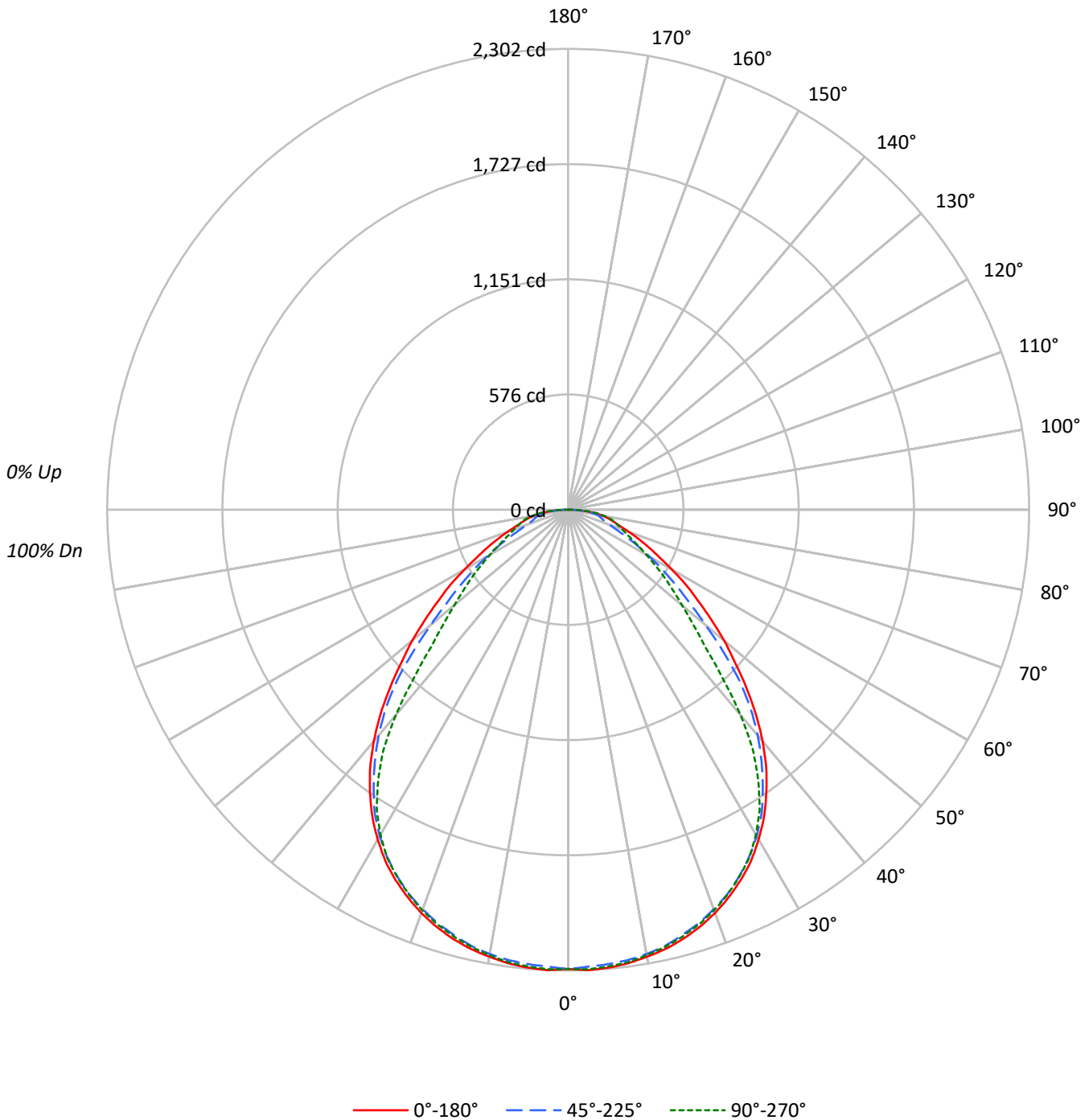
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

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

	0°	45°	90°
0°	7731	7731	7731
5°	7768	7709	7748
10°	7758	7710	7730
15°	7744	7675	7699
20°	7688	7618	7639
25°	7587	7514	7518
30°	7401	7325	7293
35°	7098	6969	6811
40°	6644	6475	5892
45°	6001	5774	4605
50°	5322	4687	3895
55°	4645	3846	3436
60°	4027	3165	3033
65°	3532	2539	2801
70°	3151	2155	2819
75°	3072	2272	3149
80°	3406	2866	3609
85°	3549	3058	4230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.7	4.3
10°-20°	623.6	12.5
20°-30°	932.8	18.6
30°-40°	1053.0	21.0
40°-50°	893.3	17.8
50°-60°	604.4	12.1
60°-70°	360.7	7.2
70°-80°	225.9	4.5
80°-90°	95.0	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°	1774.0	35.4
0°-40°	2827.0	56.5
0°-60°	4324.7	86.4
0°-90°	5006.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5006.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2294	2294	2294	2294	2294	
5°	2296	2290	2279	2295	2291	218
15°	2220	2215	2200	2215	2207	626
25°	2041	2034	2021	2030	2022	938
35°	1726	1714	1694	1679	1656	1075
45°	1259	1264	1212	1038	966	970
55°	791	754	655	586	585	712
65°	443	367	318	340	351	443
75°	236	210	174	230	242	254
85°	92	87	79	102	109	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2294.3	2294.3	2294.3	2294.3	2294.3
2.5°	2302.3	2295.2	2284.7	2298.9	2297.7
5°	2296.5	2289.6	2279.1	2295.2	2290.6
7.5°	2286.0	2280.1	2269.8	2284.7	2280.1
10°	2267.4	2262.8	2253.5	2266.2	2259.3
12.5°	2247.6	2244.2	2232.5	2244.2	2237.1
15°	2219.8	2215.2	2200.0	2215.2	2206.9
17.5°	2184.9	2179.0	2166.3	2179.0	2172.0
20°	2144.1	2137.3	2124.4	2137.3	2130.2
22.5°	2095.3	2089.5	2078.0	2089.5	2080.2
25°	2040.6	2033.8	2020.9	2030.1	2022.1
27.5°	1977.9	1968.6	1956.9	1964.0	1959.4
30°	1902.2	1890.8	1882.5	1882.5	1874.4
32.5°	1819.7	1811.7	1797.8	1789.5	1779.0
35°	1725.5	1714.0	1694.3	1679.1	1655.7
37.5°	1624.5	1610.5	1586.1	1547.6	1516.3
40°	1510.5	1492.9	1472.1	1396.5	1339.6
42.5°	1388.4	1384.8	1348.9	1219.7	1140.7
45°	1259.3	1263.9	1211.7	1038.4	966.4
47.5°	1128.9	1145.3	1050.1	880.2	843.1
50°	1015.2	1020.8	894.1	764.0	743.0
52.5°	897.8	888.3	762.8	672.0	656.9
55°	790.6	753.5	654.7	586.1	584.9
57.5°	696.4	627.8	559.2	508.2	514.1
60°	597.5	520.9	469.6	441.8	450.1
62.5°	510.4	437.2	391.8	383.7	397.6
65°	443.0	367.4	318.5	339.5	351.3
67.5°	379.1	315.1	259.2	309.3	313.9
70°	319.8	273.1	218.7	284.9	286.1
72.5°	270.9	241.9	189.4	258.3	261.7
75°	236.0	210.4	174.5	230.2	241.9
77.5°	207.0	180.1	161.6	198.9	218.7
80°	175.5	145.2	147.7	166.2	186.0
82.5°	135.0	112.8	117.4	137.2	151.1
85°	91.8	87.1	79.1	102.3	109.4
87.5°	48.8	46.6	40.8	58.1	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)