

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: P476284

Luminaire Tested: **14GR-LD5-50-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476284  
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-L830-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4741.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

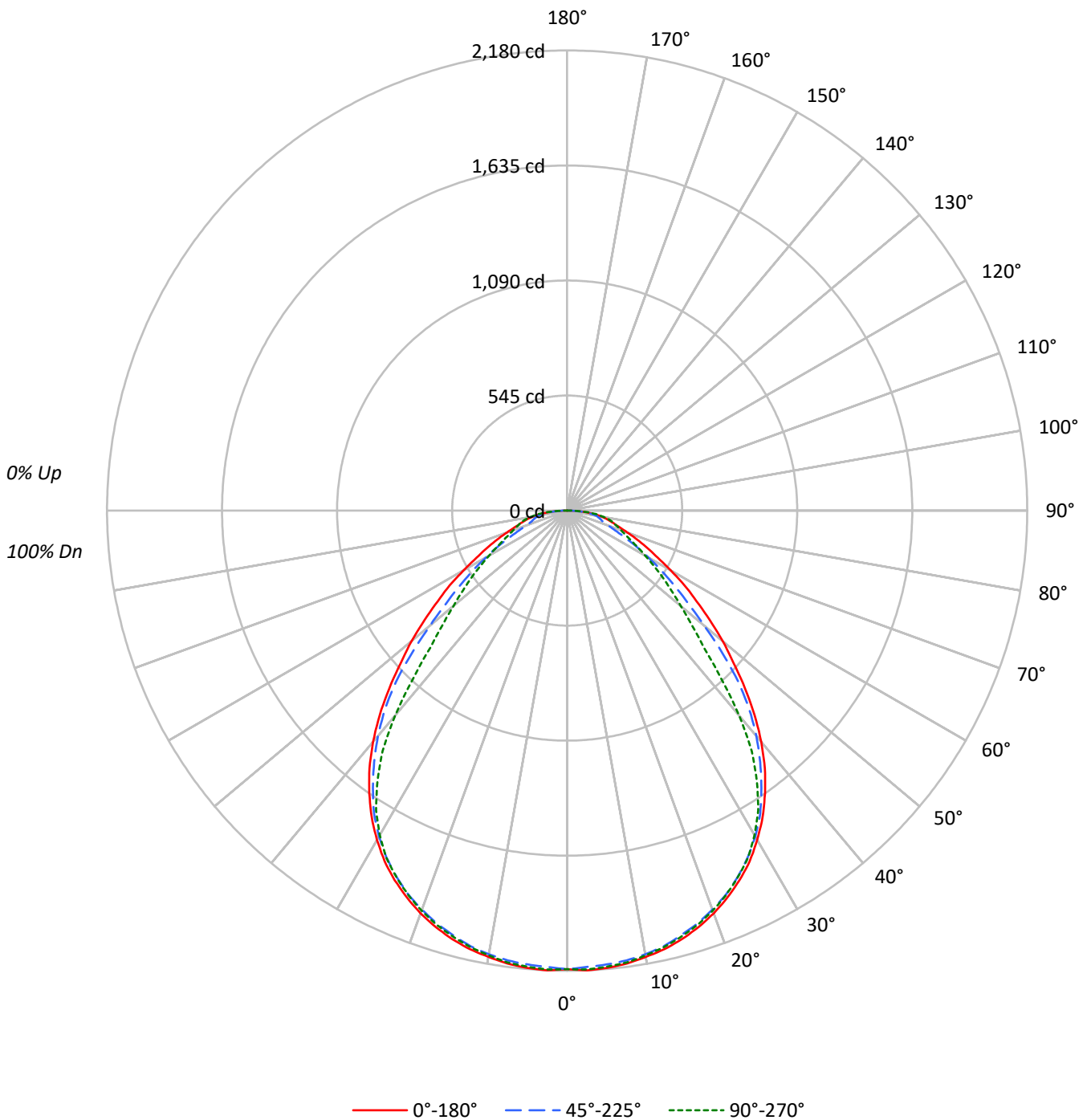
Input Watts (W): 41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7321	7321	7321
5°	7356	7300	7337
10°	7347	7302	7321
15°	7333	7268	7290
20°	7281	7214	7234
25°	7185	7115	7119
30°	7009	6936	6907
35°	6722	6600	6450
40°	6292	6132	5580
45°	5683	5468	4361
50°	5040	4439	3689
55°	4398	3642	3254
60°	3814	2998	2873
65°	3346	2405	2652
70°	2983	2040	2669
75°	2910	2152	2983
80°	3225	2715	3417
85°	3360	2896	4005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.1	4.3
10°-20°	590.5	12.5
20°-30°	883.4	18.6
30°-40°	997.2	21.0
40°-50°	846.0	17.8
50°-60°	572.4	12.1
60°-70°	341.6	7.2
70°-80°	214.0	4.5
80°-90°	90.0	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°	1680.0	35.4
0°-40°	2677.2	56.5
0°-60°	4095.5	86.4
0°-90°	4741.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2173	2173	2173	2173	2173	
5°	2175	2168	2158	2174	2169	207
15°	2102	2098	2083	2098	2090	593
25°	1932	1926	1914	1923	1915	889
35°	1634	1623	1604	1590	1568	1018
45°	1193	1197	1148	983	915	919
55°	749	714	620	555	554	674
65°	420	348	302	322	333	419
75°	224	199	165	218	229	240
85°	87	82	75	97	104	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2172.7	2172.7	2172.7	2172.7	2172.7
2.5°	2180.3	2173.6	2163.7	2177.1	2175.9
5°	2174.8	2168.3	2158.3	2173.6	2169.2
7.5°	2164.8	2159.3	2149.6	2163.7	2159.3
10°	2147.2	2142.9	2134.1	2146.1	2139.6
12.5°	2128.5	2125.3	2114.2	2125.3	2118.6
15°	2102.2	2097.8	2083.4	2097.8	2089.9
17.5°	2069.1	2063.6	2051.5	2063.6	2056.9
20°	2030.5	2024.0	2011.8	2024.0	2017.3
22.5°	1984.3	1978.7	1967.9	1978.7	1969.9
25°	1932.5	1926.0	1913.8	1922.6	1914.9
27.5°	1873.1	1864.3	1853.2	1859.9	1855.5
30°	1801.4	1790.6	1782.7	1782.7	1775.1
32.5°	1723.3	1715.7	1702.5	1694.6	1684.7
35°	1634.1	1623.2	1604.5	1590.2	1568.0
37.5°	1538.4	1525.2	1502.1	1465.6	1436.0
40°	1430.4	1413.8	1394.1	1322.5	1268.6
42.5°	1314.8	1311.4	1277.4	1155.1	1080.2
45°	1192.6	1196.9	1147.5	983.4	915.2
47.5°	1069.1	1084.6	994.5	833.6	798.4
50°	961.4	966.7	846.7	723.5	703.7
52.5°	850.2	841.2	722.4	636.4	622.1
55°	748.7	713.6	620.0	555.0	553.9
57.5°	659.5	594.5	529.6	481.3	486.8
60°	565.9	493.3	444.8	418.4	426.3
62.5°	483.4	414.0	371.0	363.4	376.6
65°	419.6	347.9	301.7	321.5	332.6
67.5°	359.0	298.4	245.5	292.9	297.3
70°	302.8	258.7	207.1	269.8	270.9
72.5°	256.6	229.1	179.4	244.6	247.8
75°	223.5	199.3	165.3	218.0	229.1
77.5°	196.0	170.6	153.0	188.4	207.1
80°	166.2	137.5	139.9	157.4	176.1
82.5°	127.8	106.8	111.2	129.9	143.1
85°	86.9	82.5	74.9	96.9	103.6
87.5°	46.2	44.2	38.6	55.0	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)