

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: P476068

Luminaire Tested: **22GR-LD5-50-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476068  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-50-A-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5005.3 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

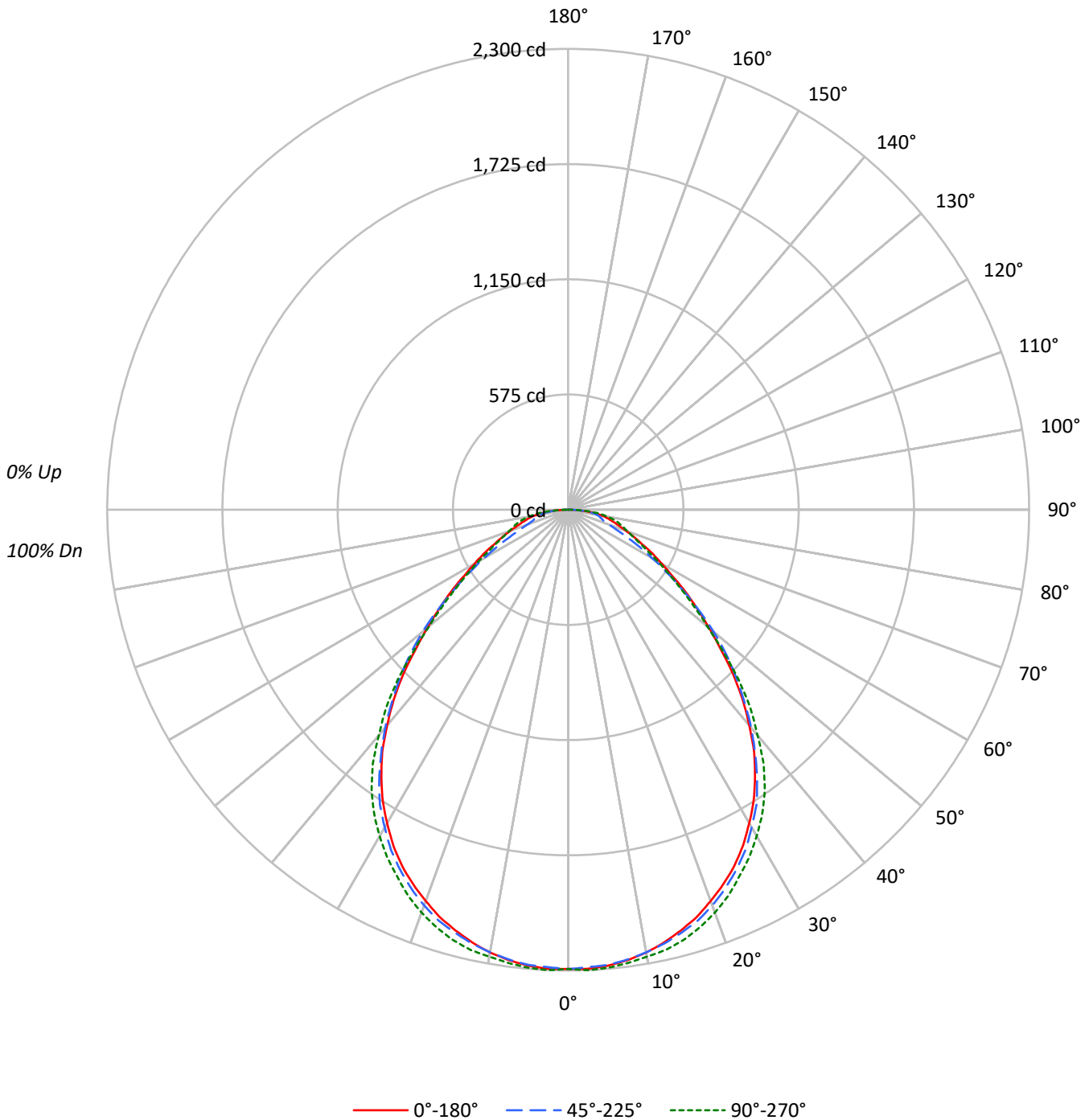
Input Watts (W): 36.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	6168	6168	6168
5°	6170	6161	6198
10°	6133	6130	6190
15°	6055	6088	6194
20°	5951	6020	6127
25°	5824	5890	5997
30°	5613	5690	5845
35°	5338	5399	5617
40°	4935	4988	5163
45°	4432	4512	4584
50°	3832	3969	3793
55°	3345	3256	3213
60°	2896	2608	2784
65°	2588	2047	2500
70°	2400	1695	2467
75°	2397	1791	2737
80°	2656	2255	3085
85°	2770	2445	3492



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.9	4.3
10°-20°	617.8	12.3
20°-30°	913.7	18.3
30°-40°	1031.1	20.6
40°-50°	909.0	18.2
50°-60°	623.5	12.5
60°-70°	367.9	7.4
70°-80°	229.6	4.6
80°-90°	95.7	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°	1748.5	34.9
0°-40°	2779.6	55.5
0°-60°	4312.1	86.1
0°-90°	5005.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5005.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2292	2292	2292	2292	2292	
5°	2284	2280	2281	2289	2295	217
15°	2174	2176	2185	2212	2223	613
25°	1962	1969	1984	2009	2020	901
35°	1625	1639	1643	1683	1710	1012
45°	1165	1171	1186	1193	1204	895
55°	713	695	694	671	685	639
65°	406	358	322	372	393	410
75°	230	207	172	241	263	247
85°	90	84	79	104	113	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2292.2	2292.2	2292.2	2292.2	2292.2
2.5°	2293.4	2287.6	2285.4	2294.6	2300.5
5°	2284.2	2279.5	2280.8	2288.8	2294.6
7.5°	2267.8	2264.4	2264.4	2275.8	2281.7
10°	2244.4	2243.5	2243.5	2257.3	2265.4
12.5°	2212.0	2213.0	2217.6	2236.4	2250.3
15°	2173.5	2175.7	2185.2	2212.0	2223.4
17.5°	2131.6	2131.6	2150.1	2171.1	2185.2
20°	2078.0	2081.4	2102.3	2125.7	2139.6
22.5°	2023.1	2029.0	2046.5	2073.3	2086.0
25°	1961.5	1968.6	1983.7	2009.2	2019.7
27.5°	1889.3	1898.6	1914.9	1933.4	1955.6
30°	1806.4	1820.6	1831.1	1856.7	1881.0
32.5°	1722.6	1735.5	1747.3	1774.1	1801.8
35°	1624.9	1638.8	1643.4	1683.1	1710.0
37.5°	1524.7	1530.6	1532.7	1572.5	1601.5
40°	1404.8	1416.2	1419.9	1451.4	1469.9
42.5°	1289.3	1294.2	1301.0	1324.4	1346.6
45°	1164.7	1170.6	1185.7	1192.8	1204.5
47.5°	1034.4	1051.9	1069.2	1047.0	1048.2
50°	915.4	929.6	948.1	906.1	906.1
52.5°	809.4	816.5	817.7	782.9	789.6
55°	712.9	695.3	694.1	671.0	684.8
57.5°	616.1	593.0	584.7	577.6	593.9
60°	538.1	496.2	484.5	495.0	517.2
62.5°	474.0	420.4	398.2	425.0	445.1
65°	406.5	357.5	321.5	371.7	392.7
67.5°	354.1	307.6	261.1	331.9	347.0
70°	305.1	269.1	215.4	301.7	313.5
72.5°	265.7	237.6	186.5	272.5	286.6
75°	230.5	207.4	172.3	241.0	263.2
77.5°	202.8	176.9	160.9	208.4	235.2
80°	171.4	145.5	145.5	174.8	199.1
82.5°	135.0	114.0	117.7	142.1	159.7
85°	89.7	83.8	79.2	103.6	113.1
87.5°	45.3	46.5	41.9	53.6	54.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)