

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: P476311

Luminaire Tested: **14GR-LD5-50-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476311
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5011.3 lumens
Efficiency: N/A
Efficacy: 122.2 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

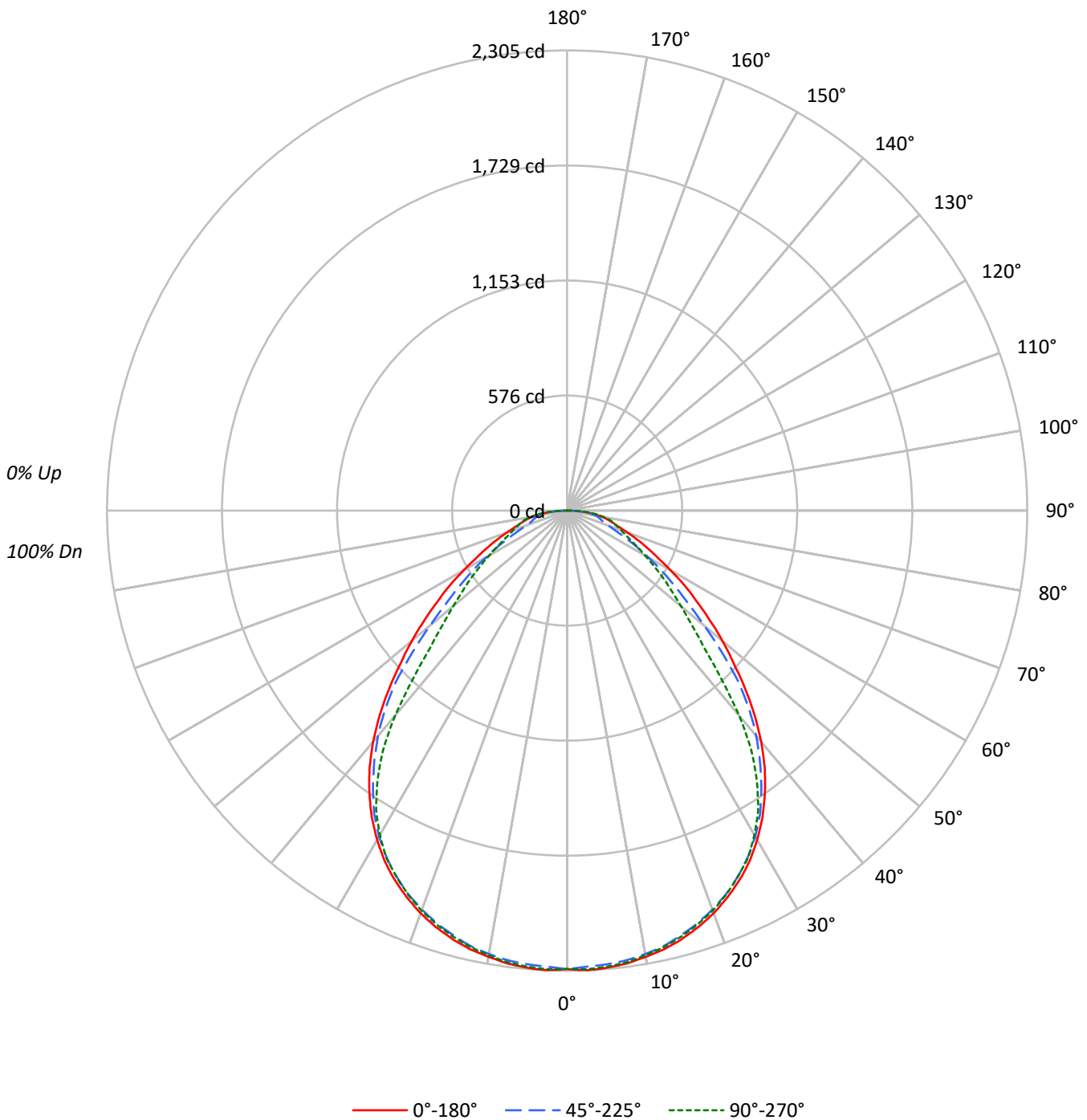
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7738	7738	7738
5°	7775	7717	7755
10°	7766	7718	7738
15°	7751	7682	7706
20°	7696	7625	7646
25°	7594	7521	7525
30°	7409	7332	7300
35°	7105	6976	6817
40°	6650	6482	5898
45°	6007	5780	4609
50°	5327	4692	3899
55°	4649	3850	3439
60°	4031	3168	3037
65°	3536	2543	2803
70°	3154	2157	2822
75°	3076	2274	3152
80°	3409	2868	3613
85°	3553	3062	4233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	4.3
10°-20°	624.2	12.5
20°-30°	933.7	18.6
30°-40°	1054.0	21.0
40°-50°	894.2	17.8
50°-60°	605.0	12.1
60°-70°	361.1	7.2
70°-80°	226.1	4.5
80°-90°	95.1	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°	1775.8	35.4
0°-40°	2829.8	56.5
0°-60°	4328.9	86.4
0°-90°	5011.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5011.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2299	2292	2281	2298	2293	219
15°	2222	2217	2202	2217	2209	627
25°	2043	2036	2023	2032	2024	939
35°	1727	1716	1696	1681	1657	1076
45°	1260	1265	1213	1039	967	971
55°	791	754	655	587	585	713
65°	444	368	319	340	352	443
75°	236	211	175	230	242	254
85°	92	87	79	102	110	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.5	2296.5	2296.5	2296.5	2296.5
2.5°	2304.6	2297.5	2287.0	2301.1	2299.9
5°	2298.7	2291.9	2281.4	2297.5	2292.8
7.5°	2288.2	2282.3	2272.1	2287.0	2282.3
10°	2269.6	2265.0	2255.7	2268.4	2261.6
12.5°	2249.8	2246.4	2234.7	2246.4	2239.3
15°	2222.0	2217.3	2202.2	2217.3	2209.0
17.5°	2187.0	2181.2	2168.5	2181.2	2174.1
20°	2146.2	2139.4	2126.4	2139.4	2132.3
22.5°	2097.4	2091.5	2080.0	2091.5	2082.2
25°	2042.6	2035.8	2022.8	2032.1	2024.1
27.5°	1979.8	1970.6	1958.8	1965.9	1961.3
30°	1904.1	1892.6	1884.3	1884.3	1876.2
32.5°	1821.5	1813.5	1799.5	1791.2	1780.7
35°	1727.2	1715.7	1695.9	1680.8	1657.3
37.5°	1626.0	1612.1	1587.7	1549.1	1517.8
40°	1511.9	1494.4	1473.6	1397.8	1340.9
42.5°	1389.8	1386.1	1350.2	1220.9	1141.8
45°	1260.5	1265.2	1212.9	1039.4	967.3
47.5°	1130.0	1146.4	1051.1	881.1	843.9
50°	1016.2	1021.8	895.0	764.8	743.8
52.5°	898.7	889.1	763.5	672.7	657.5
55°	791.4	754.3	655.3	586.6	585.4
57.5°	697.1	628.4	559.8	508.7	514.6
60°	598.1	521.4	470.1	442.2	450.6
62.5°	510.9	437.6	392.2	384.1	398.0
65°	443.5	367.7	318.9	339.9	351.6
67.5°	379.5	315.4	259.5	309.6	314.2
70°	320.1	273.4	218.9	285.1	286.4
72.5°	271.2	242.1	189.6	258.5	261.9
75°	236.3	210.6	174.7	230.4	242.1
77.5°	207.2	180.3	161.7	199.1	218.9
80°	175.7	145.4	147.8	166.4	186.2
82.5°	135.1	112.9	117.5	137.3	151.2
85°	91.9	87.2	79.2	102.4	109.5
87.5°	48.9	46.7	40.8	58.2	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)