

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: P476293

Luminaire Tested: **14GR-LD5-50-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476293
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4913.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

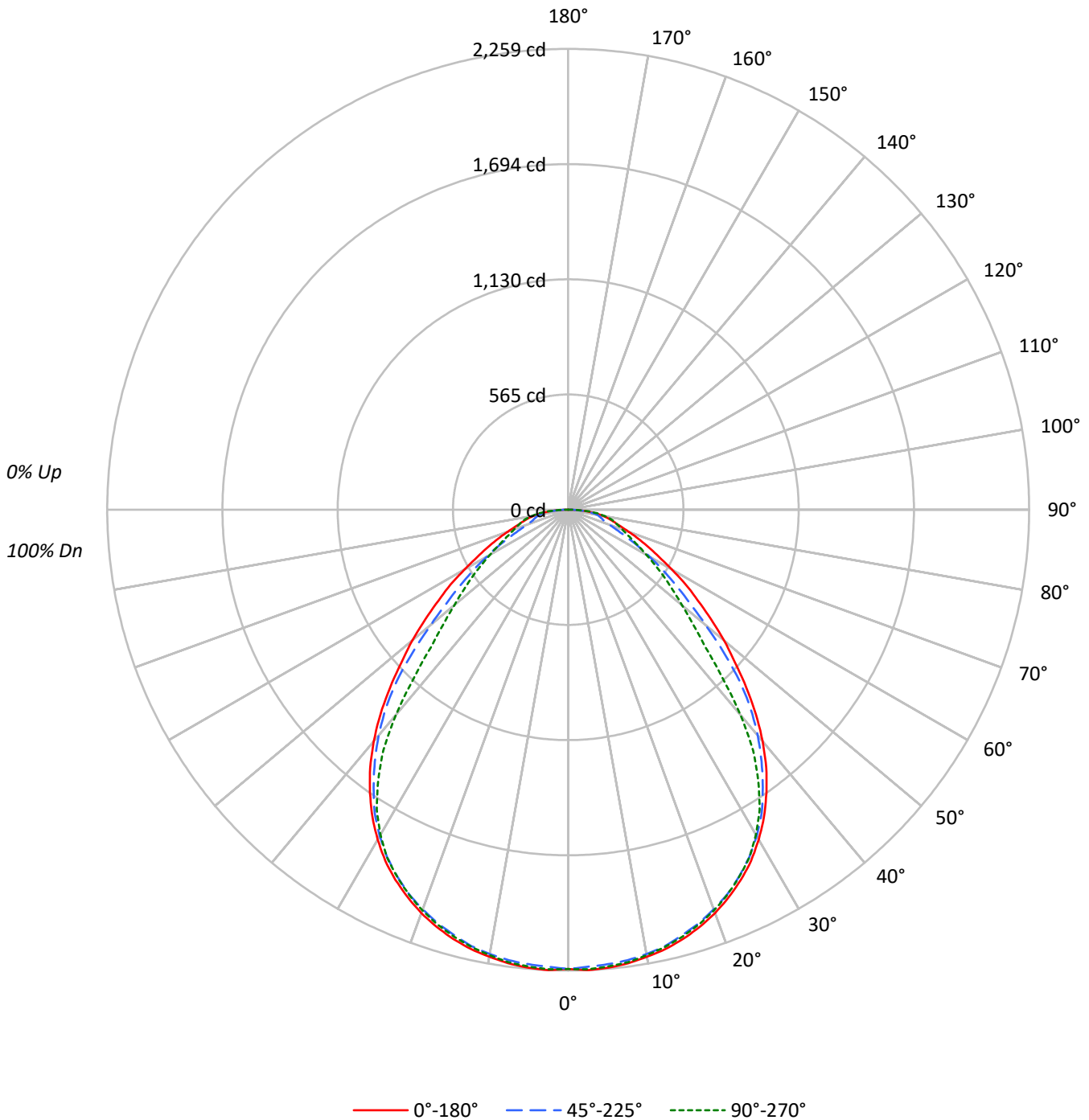
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7587	7587	7587
5°	7623	7565	7603
10°	7613	7567	7586
15°	7599	7532	7555
20°	7545	7476	7496
25°	7445	7373	7378
30°	7263	7188	7157
35°	6965	6840	6684
40°	6520	6355	5782
45°	5889	5666	4519
50°	5223	4600	3823
55°	4558	3774	3371
60°	3952	3106	2977
65°	3467	2492	2748
70°	3092	2114	2765
75°	3015	2230	3091
80°	3341	2812	3541
85°	3483	3000	4148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	4.3
10°-20°	611.9	12.5
20°-30°	915.4	18.6
30°-40°	1033.3	21.0
40°-50°	876.6	17.8
50°-60°	593.1	12.1
60°-70°	354.0	7.2
70°-80°	221.7	4.5
80°-90°	93.3	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°	1740.9	35.4
0°-40°	2774.3	56.5
0°-60°	4244.0	86.4
0°-90°	4913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2252	2252	2252	2252	2252	
5°	2254	2247	2237	2252	2248	214
15°	2178	2174	2159	2174	2166	614
25°	2003	1996	1983	1992	1984	921
35°	1693	1682	1663	1648	1625	1055
45°	1236	1240	1189	1019	948	952
55°	776	740	642	575	574	699
65°	435	360	313	333	345	435
75°	232	206	171	226	237	249
85°	90	86	78	100	107	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2251.5	2251.5	2251.5	2251.5	2251.5
2.5°	2259.4	2252.4	2242.1	2256.0	2254.8
5°	2253.6	2246.9	2236.6	2252.4	2247.9
7.5°	2243.3	2237.6	2227.5	2242.1	2237.6
10°	2225.1	2220.6	2211.5	2223.9	2217.2
12.5°	2205.7	2202.4	2190.9	2202.4	2195.4
15°	2178.4	2173.9	2159.0	2173.9	2165.7
17.5°	2144.2	2138.4	2126.0	2138.4	2131.5
20°	2104.2	2097.4	2084.8	2097.4	2090.5
22.5°	2056.2	2050.5	2039.2	2050.5	2041.4
25°	2002.6	1995.9	1983.2	1992.3	1984.4
27.5°	1941.0	1931.9	1920.4	1927.4	1922.8
30°	1866.8	1855.5	1847.4	1847.4	1839.5
32.5°	1785.8	1777.9	1764.2	1756.1	1745.8
35°	1693.3	1682.1	1662.7	1647.8	1624.8
37.5°	1594.2	1580.5	1556.6	1518.7	1488.0
40°	1482.3	1465.1	1444.7	1370.4	1314.6
42.5°	1362.5	1358.9	1323.7	1197.0	1119.4
45°	1235.8	1240.4	1189.1	1019.0	948.4
47.5°	1107.9	1123.9	1030.5	863.8	827.4
50°	996.3	1001.8	877.5	749.8	729.2
52.5°	881.0	871.7	748.6	659.5	644.6
55°	775.9	739.5	642.5	575.1	573.9
57.5°	683.4	616.1	548.8	498.7	504.5
60°	586.4	511.2	460.9	433.6	441.7
62.5°	500.9	429.0	384.5	376.6	390.2
65°	434.8	360.5	312.6	333.2	344.7
67.5°	372.0	309.3	254.4	303.5	308.1
70°	313.8	268.0	214.6	279.5	280.7
72.5°	265.9	237.4	185.9	253.4	256.8
75°	231.6	206.5	171.3	225.9	237.4
77.5°	203.1	176.8	158.6	195.2	214.6
80°	172.2	142.5	144.9	163.1	182.5
82.5°	132.5	110.7	115.2	134.6	148.3
85°	90.1	85.5	77.6	100.4	107.3
87.5°	47.9	45.8	40.0	57.0	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)