

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: P476181

Luminaire Tested: **14GR-LD5-32-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476181
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.5 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.2
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

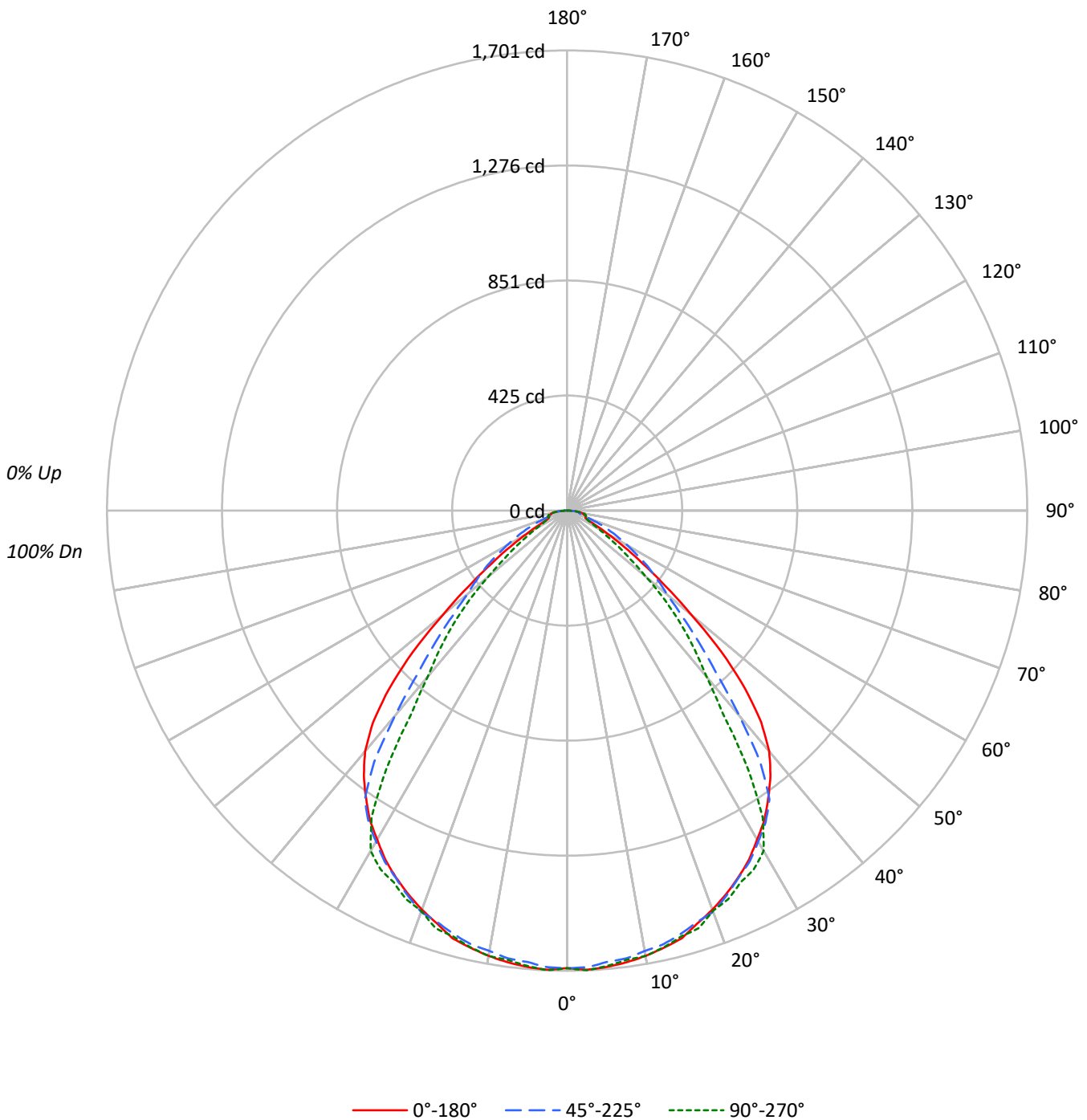
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4552	4552	4552
5°	4574	4525	4564
10°	4567	4518	4567
15°	4560	4515	4540
20°	4495	4521	4510
25°	4444	4449	4504
30°	4362	4391	4515
35°	4259	4283	3828
40°	4081	3473	2814
45°	3541	2619	2273
50°	2516	2012	1593
55°	1597	1726	1068
60°	941	1382	706
65°	557	1078	545
70°	573	731	559
75°	701	568	738
80°	903	705	987
85°	957	957	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	4.9
10°-20°	459.3	14.1
20°-30°	694.6	21.4
30°-40°	773.5	23.8
40°-50°	566.2	17.4
50°-60°	312.1	9.6
60°-70°	159.6	4.9
70°-80°	90.8	2.8
80°-90°	36.1	1.1
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°	1314.3	40.4
0°-40°	2087.8	64.2
0°-60°	2966.1	91.2
0°-90°	3252.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1693	1693	1675	1686	1690	161
15°	1637	1619	1620	1641	1630	460
25°	1497	1493	1498	1524	1517	689
35°	1296	1298	1304	1214	1165	809
45°	930	858	688	626	597	700
55°	340	401	368	315	228	318
65°	87	208	169	162	86	101
75°	67	116	55	104	71	71
85°	31	38	31	42	31	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.5	1691.5	1691.5	1691.5	1691.5
2.5°	1698.8	1698.8	1689.7	1700.7	1700.7
5°	1693.4	1693.4	1675.2	1686.1	1689.7
7.5°	1684.3	1684.3	1669.7	1678.8	1675.2
10°	1671.5	1662.4	1653.3	1678.8	1671.5
12.5°	1655.1	1636.9	1642.4	1640.6	1653.3
15°	1636.9	1618.7	1620.5	1640.6	1629.6
17.5°	1600.5	1602.3	1595.0	1609.6	1618.7
20°	1569.6	1575.0	1578.7	1587.8	1575.0
22.5°	1535.0	1536.8	1540.4	1553.2	1555.0
25°	1496.7	1493.1	1498.5	1524.0	1516.8
27.5°	1454.8	1453.0	1462.1	1484.0	1494.9
30°	1403.9	1411.1	1413.0	1453.0	1453.0
32.5°	1356.5	1356.5	1365.6	1385.7	1345.6
35°	1296.4	1298.3	1303.7	1214.5	1165.3
37.5°	1234.5	1229.1	1172.6	1010.6	945.0
40°	1161.7	1148.9	988.7	843.0	801.2
42.5°	1061.5	1023.3	815.7	728.3	697.4
45°	930.4	857.6	688.3	626.4	597.2
47.5°	773.9	706.5	571.7	529.9	489.8
50°	600.9	586.3	480.7	444.3	380.6
52.5°	457.0	486.2	422.4	375.1	293.2
55°	340.5	400.6	367.8	315.0	227.6
57.5°	249.5	333.2	309.5	267.7	171.2
60°	174.8	282.2	256.7	225.8	131.1
62.5°	123.8	244.0	211.2	193.0	100.1
65°	87.4	207.6	169.3	162.1	85.6
67.5°	72.8	174.8	129.3	143.8	72.8
70°	72.8	145.7	92.9	127.5	71.0
72.5°	72.8	127.5	69.2	116.5	74.7
75°	67.4	116.5	54.6	103.8	71.0
77.5°	61.9	98.3	47.3	89.2	69.2
80°	58.3	71.0	45.5	72.8	63.7
82.5°	47.3	51.0	41.9	56.4	49.2
85°	31.0	38.2	31.0	41.9	31.0
87.5°	14.6	20.0	14.6	18.2	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)