

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: P476325

Luminaire Tested: **14GR-LD5-32-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476325
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3265.1 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

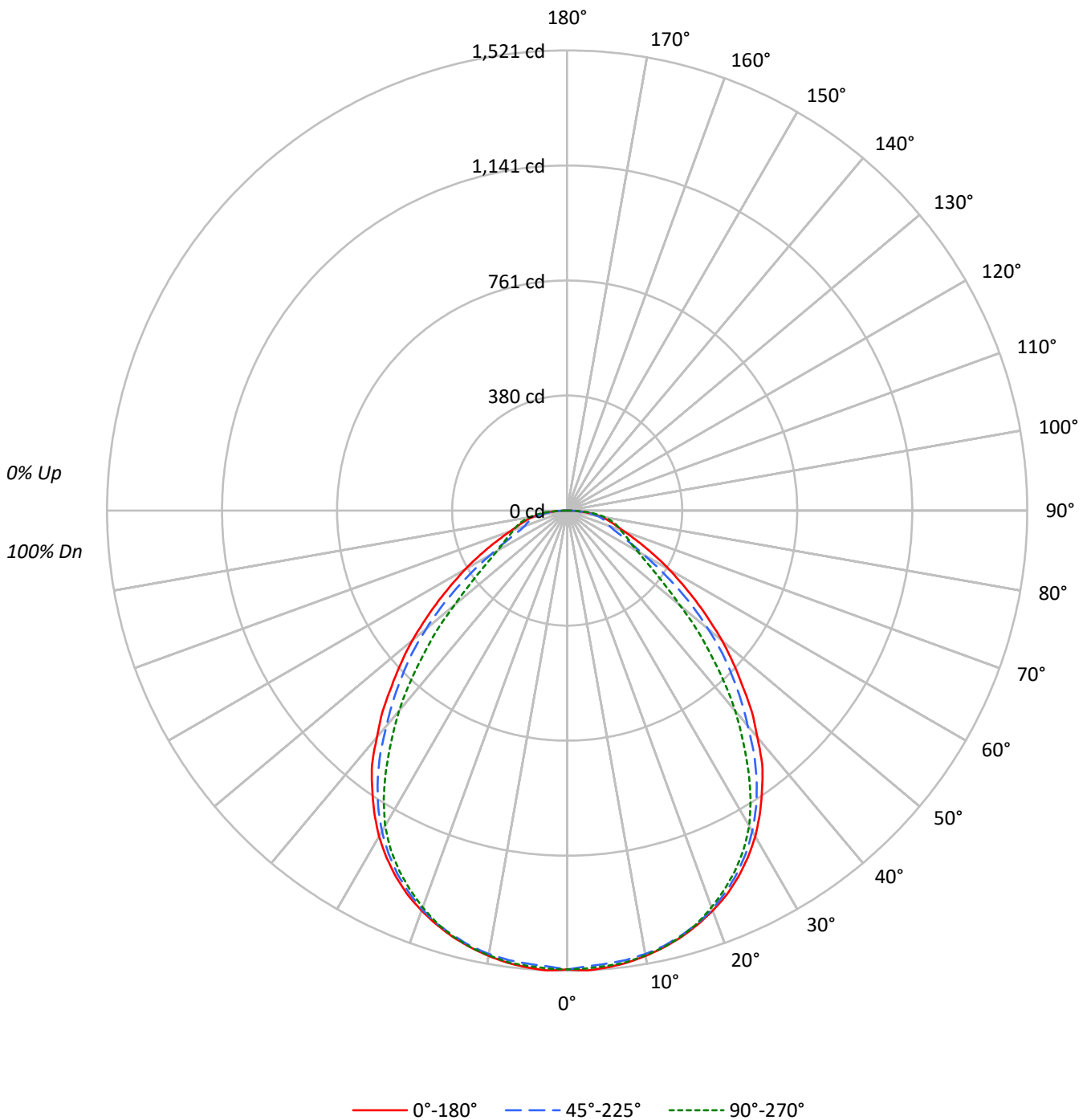
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	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	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	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	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4082	4082	4082
5°	4095	4060	4081
10°	4085	4066	4078
15°	4065	4050	4059
20°	4031	4015	3996
25°	3970	3938	3900
30°	3864	3803	3739
35°	3691	3589	3427
40°	3436	3262	3039
45°	3121	2934	2547
50°	2795	2547	2030
55°	2428	2079	1648
60°	2095	1572	1438
65°	1792	1256	1411
70°	1582	1170	1481
75°	1578	1341	1688
80°	1705	1564	1940
85°	1828	1664	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.4
10°-20°	411.0	12.6
20°-30°	609.7	18.7
30°-40°	677.1	20.7
40°-50°	584.0	17.9
50°-60°	396.0	12.1
60°-70°	229.0	7.0
70°-80°	149.5	4.6
80°-90°	65.2	2.0
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°	1164.3	35.7
0°-40°	1841.4	56.4
0°-60°	2821.4	86.4
0°-90°	3265.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1516	1510	1503	1514	1511	144
15°	1459	1456	1454	1464	1457	411
25°	1337	1335	1326	1322	1313	615
35°	1124	1113	1093	1062	1043	700
45°	820	807	771	707	669	634
55°	518	507	443	377	351	465
65°	282	250	197	202	222	283
75°	152	137	129	144	162	162
85°	59	58	54	75	72	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1516.8	1516.8	1516.8	1516.8	1516.8
2.5°	1521.3	1516.0	1507.7	1516.8	1514.5
5°	1516.0	1510.0	1503.1	1513.8	1510.7
7.5°	1507.7	1501.6	1497.8	1506.9	1505.4
10°	1494.8	1490.2	1488.0	1499.3	1492.5
12.5°	1478.9	1475.1	1474.3	1483.4	1478.1
15°	1459.1	1456.1	1453.8	1463.7	1456.8
17.5°	1434.8	1433.3	1431.8	1436.4	1430.3
20°	1407.5	1406.0	1402.2	1403.0	1395.4
22.5°	1375.7	1374.1	1366.6	1365.0	1356.7
25°	1337.0	1335.4	1326.3	1322.5	1313.4
27.5°	1293.0	1293.7	1278.5	1271.7	1263.4
30°	1243.6	1240.6	1223.9	1212.5	1203.4
32.5°	1186.0	1182.2	1162.4	1144.2	1128.3
35°	1123.7	1113.1	1092.6	1062.3	1043.3
37.5°	1060.0	1045.6	1015.2	976.5	951.5
40°	978.1	962.9	928.7	884.7	865.0
42.5°	904.5	888.5	850.6	799.0	767.9
45°	820.2	807.3	770.9	707.2	669.2
47.5°	743.6	729.9	692.8	617.6	580.5
50°	667.7	652.5	608.5	527.3	484.9
52.5°	588.8	580.5	526.6	445.4	411.3
55°	517.5	506.9	443.1	377.1	351.3
57.5°	449.2	431.7	362.7	313.4	303.5
60°	389.3	365.0	292.1	264.8	267.1
62.5°	332.3	303.5	239.8	226.9	239.8
65°	281.5	249.6	197.3	201.8	221.6
67.5°	236.7	206.4	167.7	185.9	202.6
70°	201.1	176.0	148.7	169.2	188.2
72.5°	172.2	155.5	139.6	155.5	176.0
75°	151.8	137.3	129.0	144.2	162.4
77.5°	132.8	121.4	117.6	129.8	144.9
80°	110.0	104.7	100.9	116.9	125.2
82.5°	85.0	82.7	79.7	99.4	103.2
85°	59.2	57.7	53.9	75.1	72.1
87.5°	31.1	29.6	27.3	39.5	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)