

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: P476316

Luminaire Tested: **14GR-LD5-32-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476316
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-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.8 lumens
Efficiency: N/A
Efficacy: 126.0 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

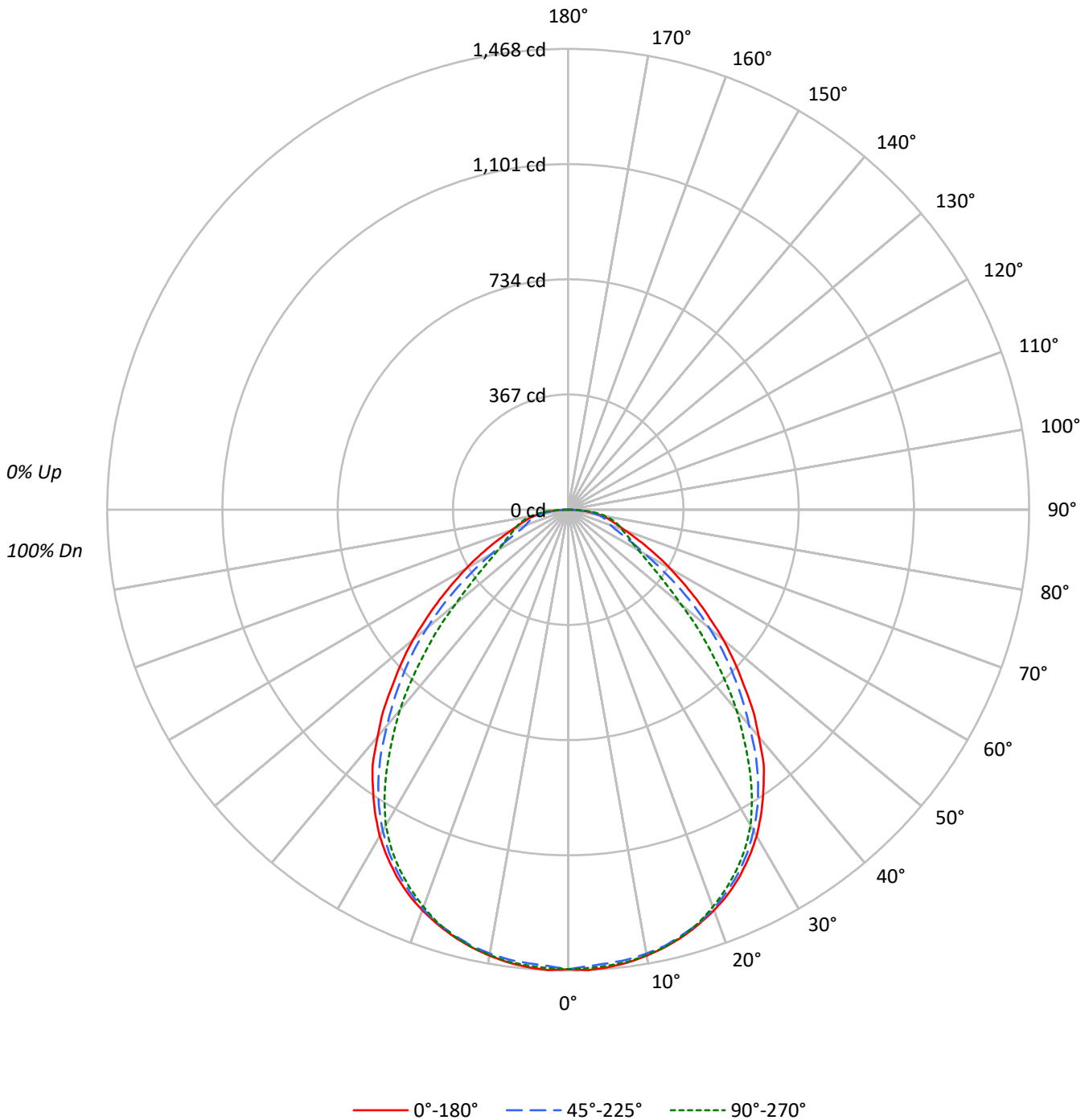
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	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	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	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	40	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	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3939	3939	3939
5°	3952	3918	3938
10°	3942	3924	3936
15°	3923	3908	3917
20°	3890	3875	3856
25°	3831	3800	3763
30°	3729	3670	3608
35°	3562	3464	3307
40°	3315	3148	2932
45°	3012	2831	2458
50°	2698	2458	1959
55°	2343	2006	1590
60°	2021	1517	1387
65°	1730	1212	1361
70°	1526	1129	1429
75°	1522	1294	1629
80°	1646	1509	1872
85°	1763	1606	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	4.4
10°-20°	396.6	12.6
20°-30°	588.4	18.7
30°-40°	653.4	20.7
40°-50°	563.5	17.9
50°-60°	382.2	12.1
60°-70°	221.0	7.0
70°-80°	144.3	4.6
80°-90°	62.9	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°	1123.6	35.7
0°-40°	1777.0	56.4
0°-60°	2722.7	86.4
0°-90°	3150.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1463	1457	1450	1461	1458	139
15°	1408	1405	1403	1412	1406	397
25°	1290	1289	1280	1276	1268	593
35°	1084	1074	1054	1025	1007	676
45°	792	779	744	682	646	612
55°	499	489	428	364	339	449
65°	272	241	190	195	214	273
75°	146	132	124	139	157	156
85°	57	56	52	72	70	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1468.1	1463.0	1454.9	1463.7	1461.5
5°	1463.0	1457.1	1450.5	1460.8	1457.8
7.5°	1454.9	1449.1	1445.4	1454.2	1452.7
10°	1442.5	1438.1	1435.9	1446.9	1440.3
12.5°	1427.1	1423.4	1422.7	1431.5	1426.4
15°	1408.1	1405.1	1402.9	1412.4	1405.9
17.5°	1384.6	1383.2	1381.7	1386.1	1380.2
20°	1358.3	1356.8	1353.1	1353.9	1346.5
22.5°	1327.5	1326.0	1318.7	1317.3	1309.2
25°	1290.2	1288.7	1279.9	1276.3	1267.5
27.5°	1247.7	1248.4	1233.8	1227.2	1219.1
30°	1200.1	1197.2	1181.1	1170.1	1161.3
32.5°	1144.5	1140.8	1121.8	1104.2	1088.8
35°	1084.4	1074.2	1054.4	1025.1	1006.8
37.5°	1022.9	1009.0	979.7	942.4	918.2
40°	943.8	929.2	896.2	853.8	834.7
42.5°	872.8	857.4	820.8	771.0	741.0
45°	791.5	779.1	743.9	682.4	645.8
47.5°	717.6	704.4	668.5	596.0	560.1
50°	644.4	629.7	587.2	508.9	467.9
52.5°	568.2	560.1	508.2	429.8	396.9
55°	499.4	489.1	427.6	363.9	339.0
57.5°	433.5	416.6	350.0	302.4	292.9
60°	375.6	352.2	281.9	255.5	257.7
62.5°	320.7	292.9	231.4	218.9	231.4
65°	271.7	240.9	190.4	194.8	213.8
67.5°	228.5	199.2	161.8	179.4	195.5
70°	194.0	169.9	143.5	163.3	181.6
72.5°	166.2	150.1	134.7	150.1	169.9
75°	146.4	132.5	124.5	139.1	156.7
77.5°	128.1	117.2	113.5	125.2	139.9
80°	106.2	101.0	97.4	112.8	120.8
82.5°	82.0	79.8	76.9	95.9	99.6
85°	57.1	55.6	52.0	72.5	69.6
87.5°	30.0	28.6	26.4	38.1	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)