

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: P476343

Luminaire Tested: **14GR-LD5-32-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476343  
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-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3330.4 lumens  
Efficiency: N/A  
Efficacy: 133.2 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

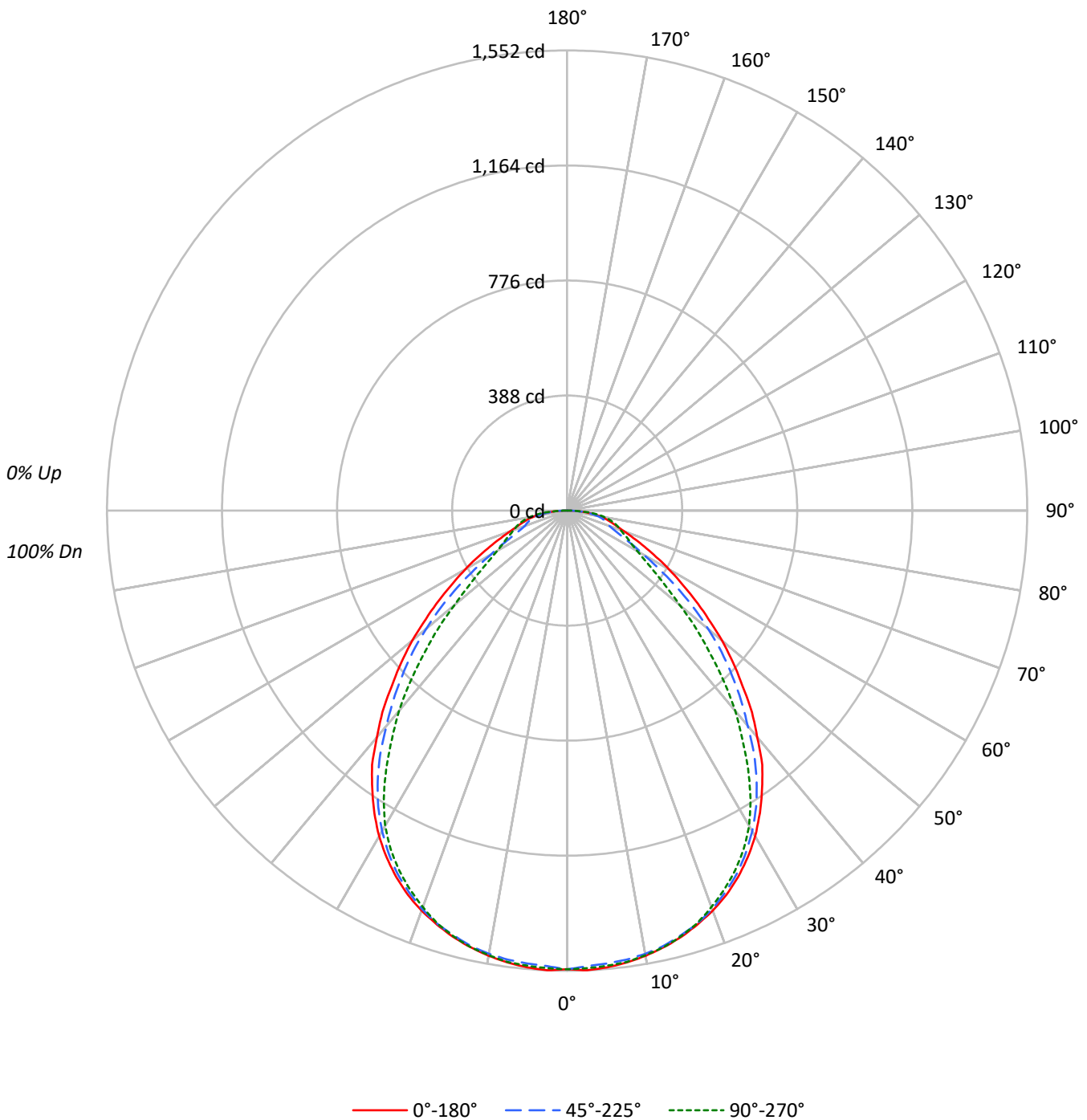
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4163	4163	4163
5°	4177	4142	4162
10°	4166	4147	4160
15°	4146	4131	4140
20°	4111	4096	4076
25°	4049	4017	3978
30°	3942	3879	3814
35°	3765	3661	3496
40°	3504	3328	3099
45°	3184	2992	2598
50°	2851	2599	2071
55°	2476	2121	1681
60°	2137	1604	1466
65°	1828	1281	1439
70°	1614	1194	1510
75°	1609	1368	1722
80°	1739	1595	1979
85°	1865	1698	2269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	4.4
10°-20°	419.2	12.6
20°-30°	621.9	18.7
30°-40°	690.7	20.7
40°-50°	595.7	17.9
50°-60°	403.9	12.1
60°-70°	233.6	7.0
70°-80°	152.5	4.6
80°-90°	66.5	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°	1187.6	35.7
0°-40°	1878.3	56.4
0°-60°	2877.9	86.4
0°-90°	3330.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3330.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1546	1540	1533	1544	1541	147
15°	1488	1485	1483	1493	1486	420
25°	1364	1362	1353	1349	1340	627
35°	1146	1135	1114	1084	1064	714
45°	837	824	786	721	683	647
55°	528	517	452	385	358	474
65°	287	255	201	206	226	289
75°	155	140	132	147	166	165
85°	60	59	55	77	74	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1547.1	1547.1	1547.1	1547.1	1547.1
2.5°	1551.8	1546.4	1537.8	1547.1	1544.8
5°	1546.4	1540.2	1533.2	1544.0	1540.9
7.5°	1537.8	1531.6	1527.8	1537.1	1535.5
10°	1524.7	1520.0	1517.7	1529.3	1522.4
12.5°	1508.4	1504.6	1503.8	1513.1	1507.7
15°	1488.3	1485.2	1482.9	1493.0	1486.0
17.5°	1463.5	1462.0	1460.4	1465.1	1458.9
20°	1435.7	1434.1	1430.3	1431.0	1423.3
22.5°	1403.2	1401.6	1393.9	1392.3	1383.8
25°	1363.7	1362.2	1352.9	1349.0	1339.7
27.5°	1318.8	1319.6	1304.1	1297.1	1288.6
30°	1268.5	1265.4	1248.4	1236.8	1227.5
32.5°	1209.7	1205.8	1185.7	1167.1	1150.9
35°	1146.2	1135.4	1114.5	1083.5	1064.2
37.5°	1081.2	1066.5	1035.5	996.1	970.5
40°	997.6	982.1	947.3	902.4	882.3
42.5°	922.5	906.3	867.6	815.0	783.2
45°	836.6	823.5	786.3	721.3	682.6
47.5°	758.5	744.5	706.6	630.0	592.1
50°	681.1	665.6	620.7	537.9	494.6
52.5°	600.6	592.1	537.1	454.3	419.5
55°	527.8	517.0	452.0	384.7	358.3
57.5°	458.2	440.4	369.9	319.6	309.6
60°	397.0	372.3	298.0	270.1	272.4
62.5°	339.0	309.6	244.6	231.4	244.6
65°	287.1	254.6	201.2	205.9	226.0
67.5°	241.5	210.5	171.0	189.6	206.6
70°	205.1	179.6	151.7	172.6	191.9
72.5°	175.7	158.7	142.4	158.7	179.6
75°	154.8	140.1	131.6	147.1	165.6
77.5°	135.4	123.8	120.0	132.3	147.8
80°	112.2	106.8	102.9	119.2	127.7
82.5°	86.7	84.4	81.3	101.4	105.3
85°	60.4	58.8	55.0	76.6	73.5
87.5°	31.7	30.2	27.9	40.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)