

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: P476088

Luminaire Tested: **22GR-LD5-32-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476088
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3286.1 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

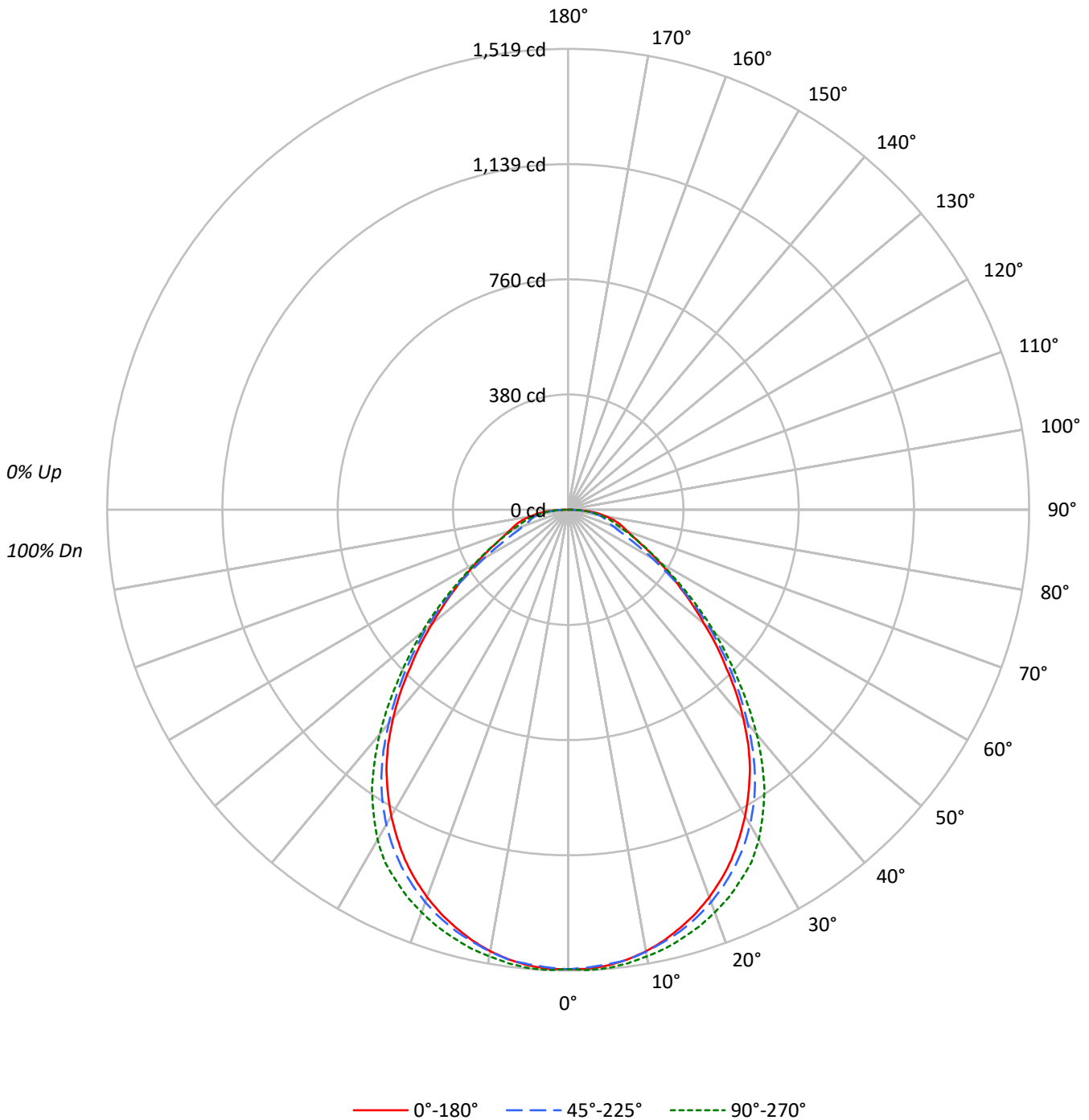
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4076	4076	4076
5°	4073	4063	4096
10°	4039	4043	4085
15°	3974	4003	4070
20°	3892	3943	4044
25°	3779	3856	3997
30°	3621	3723	3902
35°	3430	3526	3705
40°	3155	3232	3394
45°	2802	2904	3009
50°	2447	2560	2637
55°	2128	2157	2236
60°	1872	1715	1910
65°	1664	1371	1673
70°	1633	1217	1544
75°	1785	1338	1576
80°	1960	1590	1688
85°	2340	1846	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	4.4
10°-20°	406.0	12.4
20°-30°	599.3	18.2
30°-40°	670.6	20.4
40°-50°	588.9	17.9
50°-60°	416.7	12.7
60°-70°	242.6	7.4
70°-80°	151.2	4.6
80°-90°	67.6	2.1
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°	1148.5	34.9
0°-40°	1819.1	55.4
0°-60°	2824.7	86.0
0°-90°	3286.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3286.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1508	1504	1504	1512	1516	143
15°	1426	1430	1437	1452	1461	402
25°	1273	1278	1299	1329	1346	585
35°	1044	1049	1073	1106	1128	649
45°	736	745	763	782	791	569
55°	454	463	460	468	477	410
65°	261	241	215	234	263	265
75°	172	148	129	132	152	179
85°	76	79	60	58	61	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1514.7	1511.7	1510.1	1515.5	1518.6
5°	1507.8	1504.0	1504.0	1511.7	1516.3
7.5°	1495.7	1491.8	1496.3	1503.2	1507.8
10°	1478.0	1476.4	1479.5	1488.8	1494.9
12.5°	1454.9	1455.7	1458.8	1473.4	1481.1
15°	1426.5	1429.6	1436.7	1451.9	1461.0
17.5°	1395.9	1398.4	1408.9	1426.5	1439.7
20°	1359.2	1363.7	1376.9	1399.0	1412.1
22.5°	1318.5	1324.0	1340.0	1366.9	1383.0
25°	1272.7	1277.9	1298.6	1329.2	1346.3
27.5°	1220.6	1228.9	1252.0	1285.7	1308.6
30°	1165.4	1172.3	1198.3	1236.6	1255.9
32.5°	1106.4	1114.8	1139.3	1176.0	1193.0
35°	1044.2	1048.9	1073.4	1105.6	1127.7
37.5°	973.9	976.1	999.0	1029.0	1048.9
40°	898.0	899.5	920.1	948.5	966.2
42.5°	819.0	819.8	842.1	863.4	878.8
45°	736.3	744.8	763.0	781.5	790.6
47.5°	661.9	668.2	685.0	701.0	709.5
50°	584.6	599.8	611.4	619.9	629.9
52.5°	517.9	530.9	534.0	543.9	552.4
55°	453.5	462.8	459.8	468.1	476.6
57.5°	399.2	394.5	384.6	399.2	409.9
60°	347.9	335.5	318.7	338.7	354.8
62.5°	301.9	282.0	261.3	281.2	307.9
65°	261.3	240.6	215.3	234.5	262.7
67.5°	230.7	209.2	179.2	198.5	226.8
70°	207.6	185.5	154.7	170.9	196.2
72.5°	189.3	165.4	138.7	149.4	170.9
75°	171.7	147.8	128.7	131.8	151.6
77.5°	151.0	133.4	118.0	116.4	131.8
80°	126.5	121.0	102.6	100.3	108.9
82.5°	104.2	102.0	84.3	81.9	85.1
85°	75.8	78.9	59.8	58.2	61.2
87.5°	39.9	43.6	31.4	33.0	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)