

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: P476096

Luminaire Tested: **22GR-LD5-90-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476096
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-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: 9094.2 lumens
Efficiency: N/A
Efficacy: 131.2 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

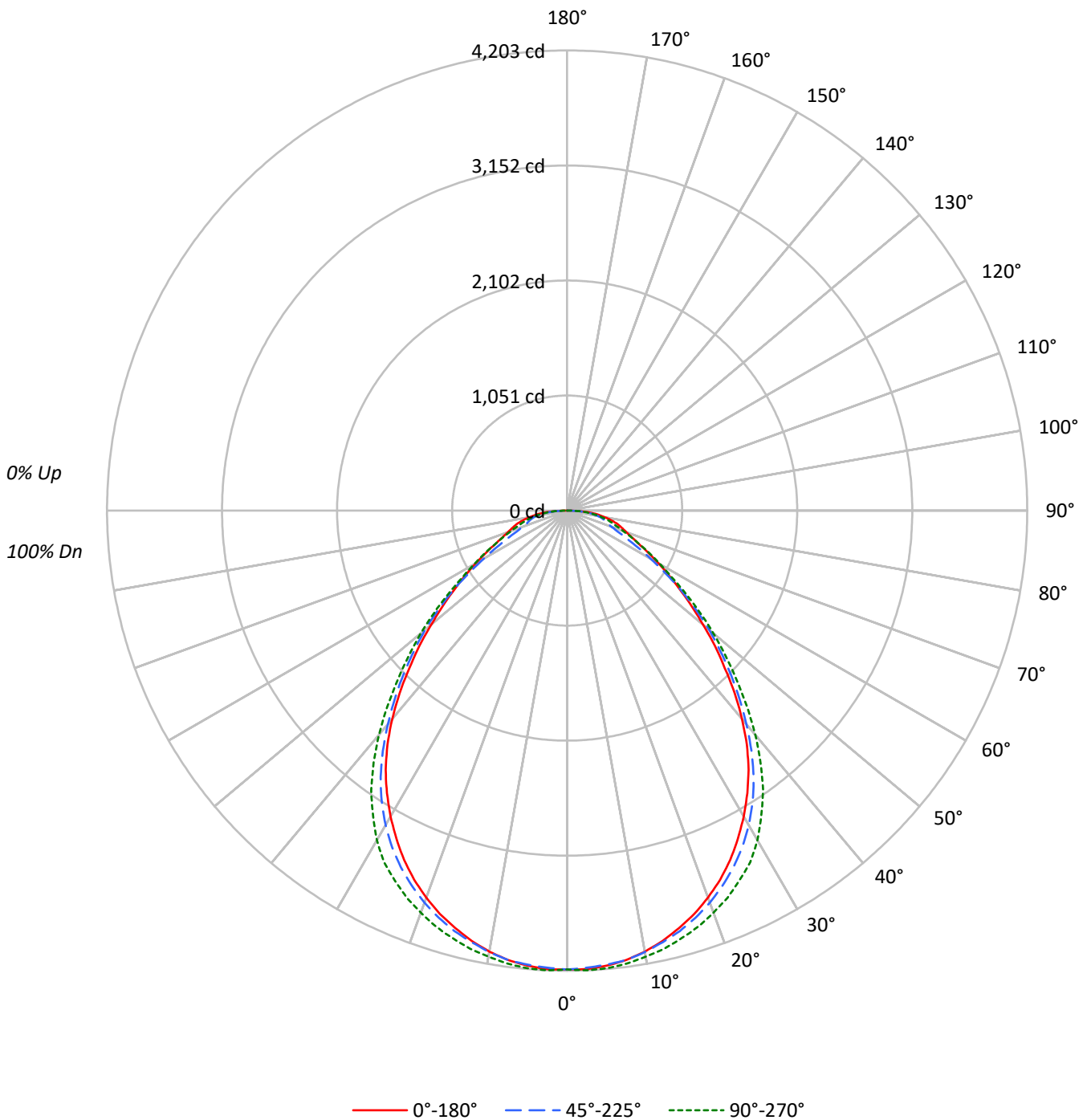
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11281	11281	11281
5°	11272	11243	11336
10°	11177	11188	11304
15°	10998	11077	11264
20°	10772	10912	11192
25°	10458	10671	11063
30°	10022	10304	10800
35°	9493	9759	10253
40°	8730	8945	9393
45°	7754	8036	8327
50°	6774	7084	7297
55°	5888	5970	6188
60°	5181	4746	5284
65°	4605	3794	4630
70°	4520	3368	4273
75°	4941	3705	4363
80°	5425	4400	4669
85°	6478	5110	5230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.2	4.4
10°-20°	1123.5	12.4
20°-30°	1658.6	18.2
30°-40°	1856.0	20.4
40°-50°	1629.8	17.9
50°-60°	1153.2	12.7
60°-70°	671.3	7.4
70°-80°	418.3	4.6
80°-90°	187.2	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°	3178.3	34.9
0°-40°	5034.3	55.4
0°-60°	7817.3	86.0
0°-90°	9094.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9094.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4192	4192	4192	4192	4192	
5°	4173	4162	4162	4184	4196	396
15°	3948	3956	3976	4018	4043	1112
25°	3522	3537	3594	3679	3726	1618
35°	2890	2903	2971	3060	3121	1797
45°	2038	2061	2112	2163	2188	1576
55°	1255	1281	1272	1295	1319	1135
65°	723	666	596	649	727	733
75°	475	409	356	365	420	496
85°	210	218	166	161	169	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4192.0	4192.0	4192.0	4192.0	4192.0
2.5°	4192.0	4183.6	4179.1	4194.2	4202.6
5°	4172.9	4162.3	4162.3	4183.6	4196.5
7.5°	4139.3	4128.6	4140.9	4160.0	4172.9
10°	4090.4	4086.0	4094.4	4120.2	4137.0
12.5°	4026.5	4028.7	4037.1	4077.5	4098.9
15°	3947.9	3956.4	3976.0	4018.1	4043.3
17.5°	3863.2	3870.0	3899.1	3947.9	3984.4
20°	3761.7	3774.0	3810.5	3871.6	3908.1
22.5°	3648.9	3664.1	3708.4	3783.0	3827.3
25°	3522.1	3536.7	3593.9	3678.6	3725.8
27.5°	3377.9	3400.9	3464.9	3558.0	3621.4
30°	3225.3	3244.4	3316.2	3422.3	3475.6
32.5°	3062.1	3085.1	3153.0	3254.5	3301.6
35°	2889.8	2902.7	2970.6	3059.8	3121.0
37.5°	2695.2	2701.3	2764.7	2847.8	2902.7
40°	2485.3	2489.3	2546.5	2625.0	2673.9
42.5°	2266.5	2268.8	2330.5	2389.4	2432.0
45°	2037.6	2061.2	2111.7	2162.8	2188.0
47.5°	1831.7	1849.1	1895.7	1940.0	1963.6
50°	1618.0	1660.1	1692.1	1715.6	1743.1
52.5°	1433.4	1469.3	1477.7	1505.2	1528.8
55°	1255.0	1280.8	1272.4	1295.4	1319.0
57.5°	1104.7	1091.8	1064.3	1104.7	1134.4
60°	962.7	928.5	881.9	937.5	981.8
62.5°	835.4	780.4	723.2	778.1	852.2
65°	723.2	665.9	595.8	649.1	727.1
67.5°	638.4	579.0	495.9	549.2	627.8
70°	574.5	513.3	428.1	472.9	543.1
72.5°	524.0	457.8	383.7	413.5	472.9
75°	475.2	409.0	356.3	364.7	419.6
77.5°	418.0	369.2	326.5	322.0	364.7
80°	350.1	334.9	283.9	277.7	301.3
82.5°	288.4	282.2	233.4	226.7	235.6
85°	209.8	218.2	165.5	161.0	169.4
87.5°	110.5	120.6	87.0	91.4	93.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)