

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: P476094

Luminaire Tested: **22GR-LD5-70-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476094
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-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: 7086.2 lumens
Efficiency: N/A
Efficacy: 135.5 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

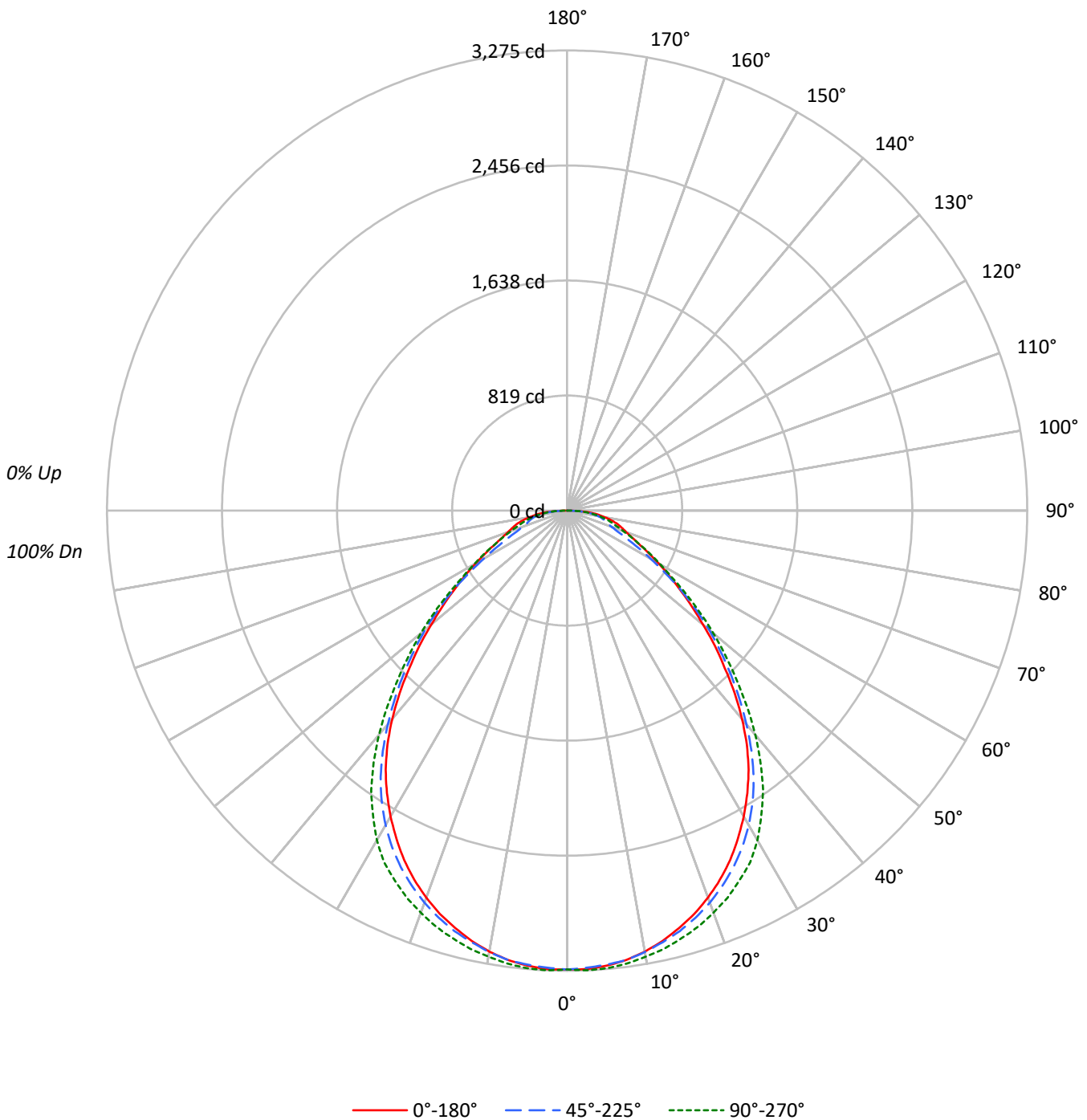
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8790	8790	8790
5°	8783	8761	8833
10°	8709	8717	8808
15°	8570	8631	8777
20°	8394	8503	8720
25°	8149	8315	8620
30°	7809	8029	8415
35°	7397	7604	7989
40°	6803	6970	7319
45°	6042	6262	6488
50°	5278	5520	5686
55°	4588	4652	4822
60°	4038	3698	4117
65°	3588	2956	3607
70°	3522	2624	3330
75°	3850	2886	3400
80°	4228	3428	3639
85°	5048	3983	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	4.4
10°-20°	875.5	12.4
20°-30°	1292.4	18.2
30°-40°	1446.2	20.4
40°-50°	1270.0	17.9
50°-60°	898.6	12.7
60°-70°	523.1	7.4
70°-80°	326.0	4.6
80°-90°	145.9	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°	2476.6	34.9
0°-40°	3922.7	55.4
0°-60°	6091.3	86.0
0°-90°	7086.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7086.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3266	3266	3266	3266	3266	
5°	3252	3243	3243	3260	3270	308
15°	3076	3083	3098	3131	3151	867
25°	2744	2756	2800	2866	2903	1260
35°	2252	2262	2315	2384	2432	1401
45°	1588	1606	1645	1685	1705	1228
55°	978	998	992	1009	1028	884
65°	564	519	464	506	566	572
75°	370	319	278	284	327	387
85°	164	170	129	126	132	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3266.4	3266.4	3266.4	3266.4	3266.4
2.5°	3266.4	3259.8	3256.3	3268.1	3274.7
5°	3251.5	3243.2	3243.2	3259.8	3269.9
7.5°	3225.3	3217.0	3226.6	3241.5	3251.5
10°	3187.3	3183.8	3190.3	3210.4	3223.6
12.5°	3137.4	3139.2	3145.7	3177.2	3193.8
15°	3076.2	3082.8	3098.1	3130.9	3150.6
17.5°	3010.2	3015.5	3038.2	3076.2	3104.7
20°	2931.1	2940.7	2969.1	3016.8	3045.2
22.5°	2843.2	2855.0	2889.6	2947.7	2982.3
25°	2744.4	2755.8	2800.4	2866.4	2903.1
27.5°	2632.1	2650.0	2699.9	2772.4	2821.8
30°	2513.2	2528.0	2584.0	2666.6	2708.2
32.5°	2386.0	2403.9	2456.8	2535.9	2572.6
35°	2251.8	2261.8	2314.7	2384.2	2431.9
37.5°	2100.1	2104.9	2154.3	2219.0	2261.8
40°	1936.6	1939.6	1984.2	2045.4	2083.5
42.5°	1766.1	1767.8	1815.9	1861.8	1895.1
45°	1587.7	1606.1	1645.4	1685.2	1704.9
47.5°	1427.3	1440.9	1477.1	1511.7	1530.0
50°	1260.7	1293.5	1318.5	1336.8	1358.2
52.5°	1116.9	1144.9	1151.5	1172.9	1191.2
55°	977.9	998.0	991.5	1009.4	1027.7
57.5°	860.8	850.7	829.3	860.8	883.9
60°	750.2	723.5	687.2	730.5	765.0
62.5°	650.9	608.1	563.5	606.3	664.0
65°	563.5	518.9	464.3	505.8	566.5
67.5°	497.5	451.1	386.4	428.0	489.2
70°	447.6	400.0	333.5	368.5	423.2
72.5°	408.3	356.7	299.0	322.2	368.5
75°	370.3	318.7	277.6	284.1	327.0
77.5°	325.7	287.6	254.4	250.9	284.1
80°	272.8	261.0	221.2	216.4	234.8
82.5°	224.7	219.9	181.9	176.6	183.6
85°	163.5	170.1	129.0	125.5	132.0
87.5°	86.1	94.0	67.8	71.3	72.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)