

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: P476082

Luminaire Tested: **22GR-LD5-70-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476082
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-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6838.2 lumens
Efficiency: N/A
Efficacy: 130.7 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

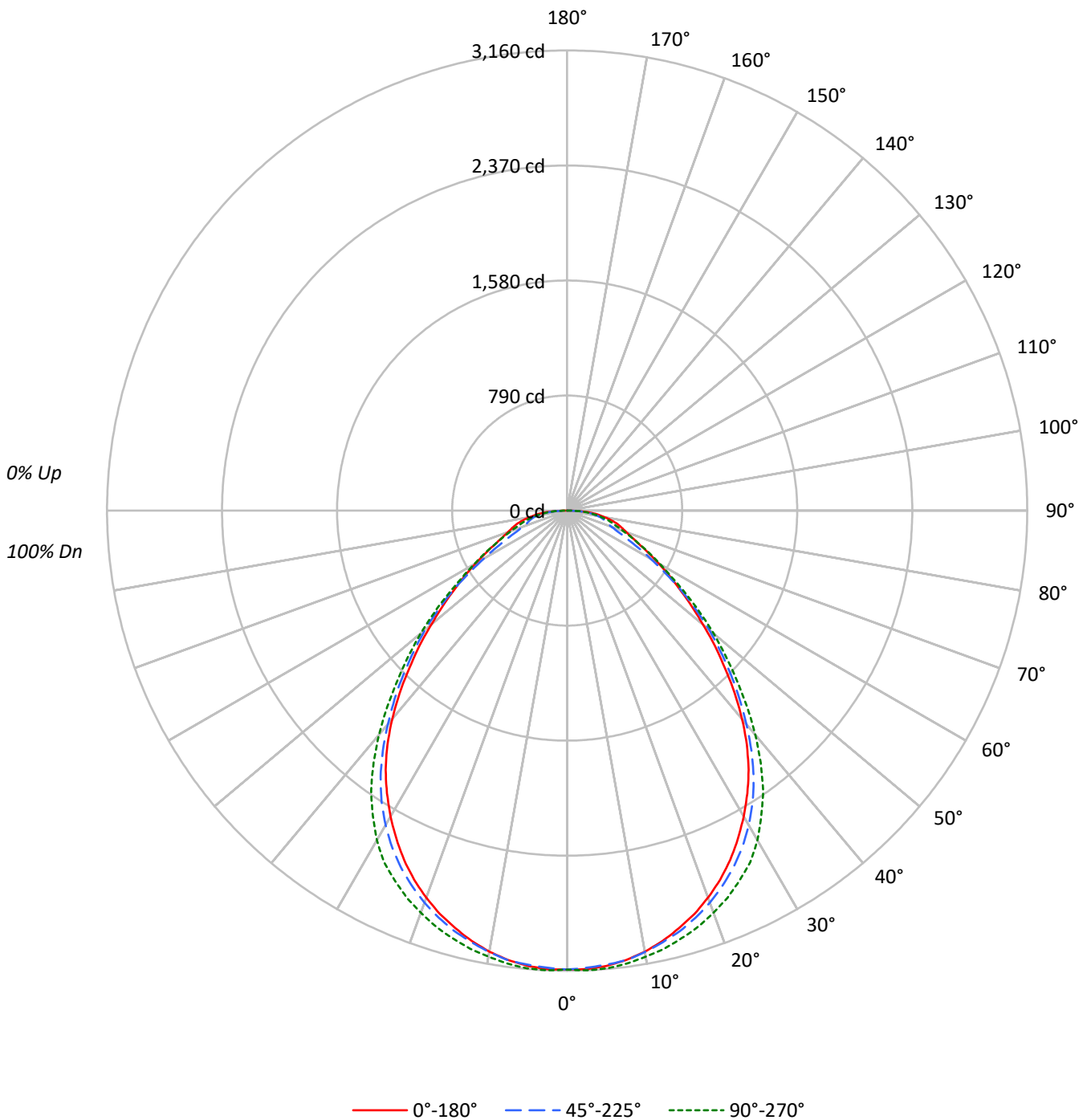
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	8482	8482	8482
5°	8476	8454	8524
10°	8404	8413	8500
15°	8270	8329	8470
20°	8100	8205	8415
25°	7864	8024	8318
30°	7536	7748	8121
35°	7138	7338	7709
40°	6565	6726	7063
45°	5831	6043	6261
50°	5093	5326	5487
55°	4427	4489	4653
60°	3896	3569	3973
65°	3463	2853	3481
70°	3399	2533	3213
75°	3715	2785	3280
80°	4079	3309	3510
85°	4872	3841	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	4.4
10°-20°	844.8	12.4
20°-30°	1247.2	18.2
30°-40°	1395.6	20.4
40°-50°	1225.5	17.9
50°-60°	867.1	12.7
60°-70°	504.8	7.4
70°-80°	314.5	4.6
80°-90°	140.7	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°	2389.9	34.9
0°-40°	3785.5	55.4
0°-60°	5878.1	86.0
0°-90°	6838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6838.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3152	3152	3152	3152	3152	
5°	3138	3130	3130	3146	3155	298
15°	2969	2975	2990	3021	3040	836
25°	2648	2659	2702	2766	2802	1216
35°	2173	2183	2234	2301	2347	1352
45°	1532	1550	1588	1626	1645	1185
55°	944	963	957	974	992	853
65°	544	501	448	488	547	552
75°	357	308	268	274	316	373
85°	158	164	124	121	127	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3152.1	3152.1	3152.1	3152.1	3152.1
2.5°	3152.1	3145.7	3142.4	3153.8	3160.1
5°	3137.7	3129.7	3129.7	3145.7	3155.4
7.5°	3112.4	3104.4	3113.7	3128.0	3137.7
10°	3075.7	3072.3	3078.7	3098.1	3110.7
12.5°	3027.6	3029.3	3035.6	3066.0	3082.0
15°	2968.6	2974.9	2989.7	3021.3	3040.3
17.5°	2904.9	2909.9	2931.9	2968.6	2996.0
20°	2828.5	2837.8	2865.2	2911.2	2938.6
22.5°	2743.7	2755.1	2788.4	2844.5	2877.9
25°	2648.4	2659.4	2702.4	2766.1	2801.5
27.5°	2540.0	2557.3	2605.4	2675.4	2723.1
30°	2425.2	2439.6	2493.6	2573.3	2613.4
32.5°	2302.5	2319.8	2370.8	2447.2	2482.6
35°	2173.0	2182.7	2233.7	2300.8	2346.8
37.5°	2026.6	2031.2	2078.9	2141.3	2182.7
40°	1868.8	1871.8	1914.8	1973.8	2010.5
42.5°	1704.3	1706.0	1752.4	1796.7	1828.7
45°	1532.2	1549.9	1587.8	1626.2	1645.2
47.5°	1377.3	1390.4	1425.4	1458.8	1476.5
50°	1216.6	1248.3	1272.3	1290.0	1310.7
52.5°	1077.8	1104.8	1111.2	1131.8	1149.5
55°	943.7	963.1	956.8	974.1	991.8
57.5°	830.6	820.9	800.3	830.6	853.0
60°	723.9	698.2	663.2	704.9	738.2
62.5°	628.1	586.8	543.8	585.1	640.8
65°	543.8	500.7	448.0	488.1	546.7
67.5°	480.1	435.4	372.9	413.0	472.1
70°	432.0	386.0	321.9	355.6	408.4
72.5°	394.0	344.2	288.5	310.9	355.6
75°	357.3	307.5	267.9	274.2	315.5
77.5°	314.3	277.6	245.5	242.1	274.2
80°	263.2	251.8	213.5	208.8	226.5
82.5°	216.8	212.2	175.5	170.4	177.2
85°	157.8	164.1	124.4	121.1	127.4
87.5°	83.1	90.7	65.4	68.8	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)