

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: P476118

Luminaire Tested: **22GR-LD5-70-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476118
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-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7227.9 lumens
Efficiency: N/A
Efficacy: 138.2 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

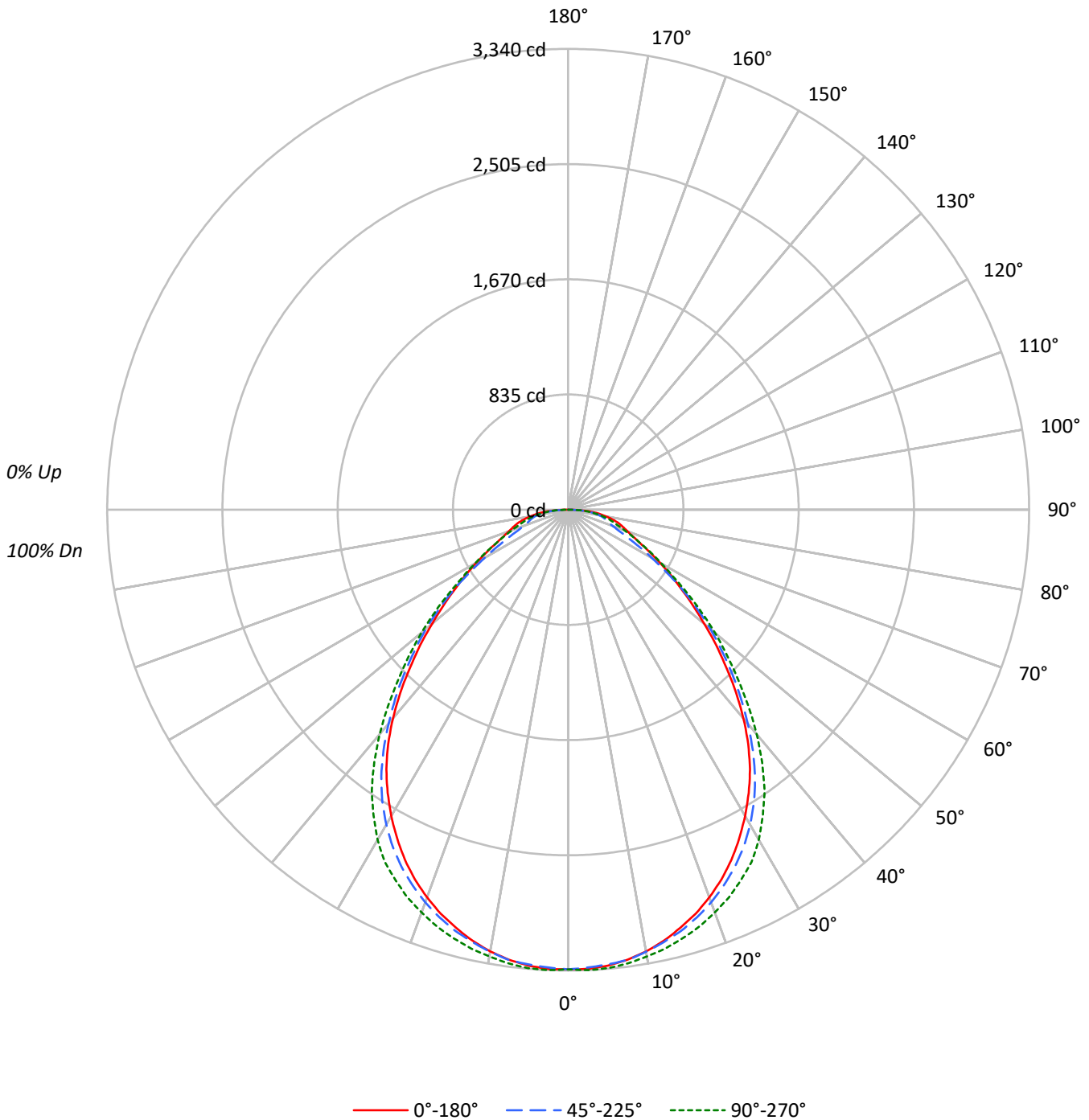
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8966	8966	8966
5°	8959	8936	9010
10°	8883	8892	8984
15°	8742	8804	8953
20°	8562	8673	8895
25°	8312	8481	8792
30°	7965	8190	8583
35°	7545	7756	8149
40°	6939	7110	7465
45°	6163	6387	6618
50°	5384	5630	5800
55°	4680	4745	4918
60°	4118	3772	4200
65°	3660	3015	3680
70°	3592	2677	3396
75°	3927	2943	3467
80°	4311	3496	3710
85°	5150	4060	4159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	4.4
10°-20°	893.0	12.4
20°-30°	1318.3	18.2
30°-40°	1475.1	20.4
40°-50°	1295.4	17.9
50°-60°	916.6	12.7
60°-70°	533.6	7.4
70°-80°	332.5	4.6
80°-90°	148.8	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°	2526.1	34.9
0°-40°	4001.2	55.4
0°-60°	6213.1	86.0
0°-90°	7227.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7227.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3332	3332	3332	3332	3332	
5°	3317	3308	3308	3325	3335	314
15°	3138	3144	3160	3194	3214	884
25°	2799	2811	2856	2924	2961	1286
35°	2297	2307	2361	2432	2480	1429
45°	1620	1638	1678	1719	1739	1253
55°	998	1018	1011	1030	1048	902
65°	575	529	474	516	578	583
75°	378	325	283	290	334	394
85°	167	174	132	128	135	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3331.7	3331.7	3331.7	3331.7	3331.7
2.5°	3331.7	3325.0	3321.5	3333.5	3340.2
5°	3316.6	3308.1	3308.1	3325.0	3335.3
7.5°	3289.8	3281.3	3291.2	3306.3	3316.6
10°	3251.0	3247.5	3254.1	3274.7	3288.0
12.5°	3200.2	3202.0	3208.7	3240.8	3257.7
15°	3137.8	3144.5	3160.1	3193.5	3213.6
17.5°	3070.4	3075.8	3099.0	3137.8	3166.7
20°	2989.7	2999.5	3028.5	3077.1	3106.1
22.5°	2900.1	2912.1	2947.4	3006.7	3041.9
25°	2799.3	2810.9	2856.4	2923.7	2961.2
27.5°	2684.7	2703.0	2753.8	2827.9	2878.3
30°	2563.4	2578.6	2635.7	2720.0	2762.3
32.5°	2433.7	2452.0	2505.9	2586.6	2624.1
35°	2296.8	2307.1	2361.0	2431.9	2480.5
37.5°	2142.1	2147.0	2197.4	2263.4	2307.1
40°	1975.3	1978.4	2023.9	2086.3	2125.1
42.5°	1801.4	1803.2	1852.2	1899.1	1933.0
45°	1619.5	1638.2	1678.3	1718.9	1739.0
47.5°	1455.8	1469.7	1506.7	1541.9	1560.6
50°	1286.0	1319.4	1344.8	1363.5	1385.4
52.5°	1139.3	1167.8	1174.5	1196.3	1215.1
55°	997.5	1018.0	1011.3	1029.6	1048.3
57.5°	878.0	867.7	845.9	878.0	901.6
60°	765.2	738.0	700.9	745.1	780.3
62.5°	663.9	620.2	574.8	618.5	677.3
65°	574.8	529.3	473.5	515.9	577.9
67.5°	507.4	460.2	394.2	436.5	499.0
70°	456.6	408.0	340.2	375.9	431.6
72.5°	416.5	363.9	305.0	328.6	375.9
75°	377.7	325.1	283.1	289.8	333.5
77.5°	332.2	293.4	259.5	255.9	289.8
80°	278.2	266.2	225.6	220.7	239.4
82.5°	229.2	224.3	185.5	180.1	187.3
85°	166.8	173.5	131.5	128.0	134.7
87.5°	87.8	95.9	69.1	72.7	74.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)