

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: P476084

Luminaire Tested: **22GR-LD5-90-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476084
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-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: 8775.9 lumens
Efficiency: N/A
Efficacy: 126.6 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

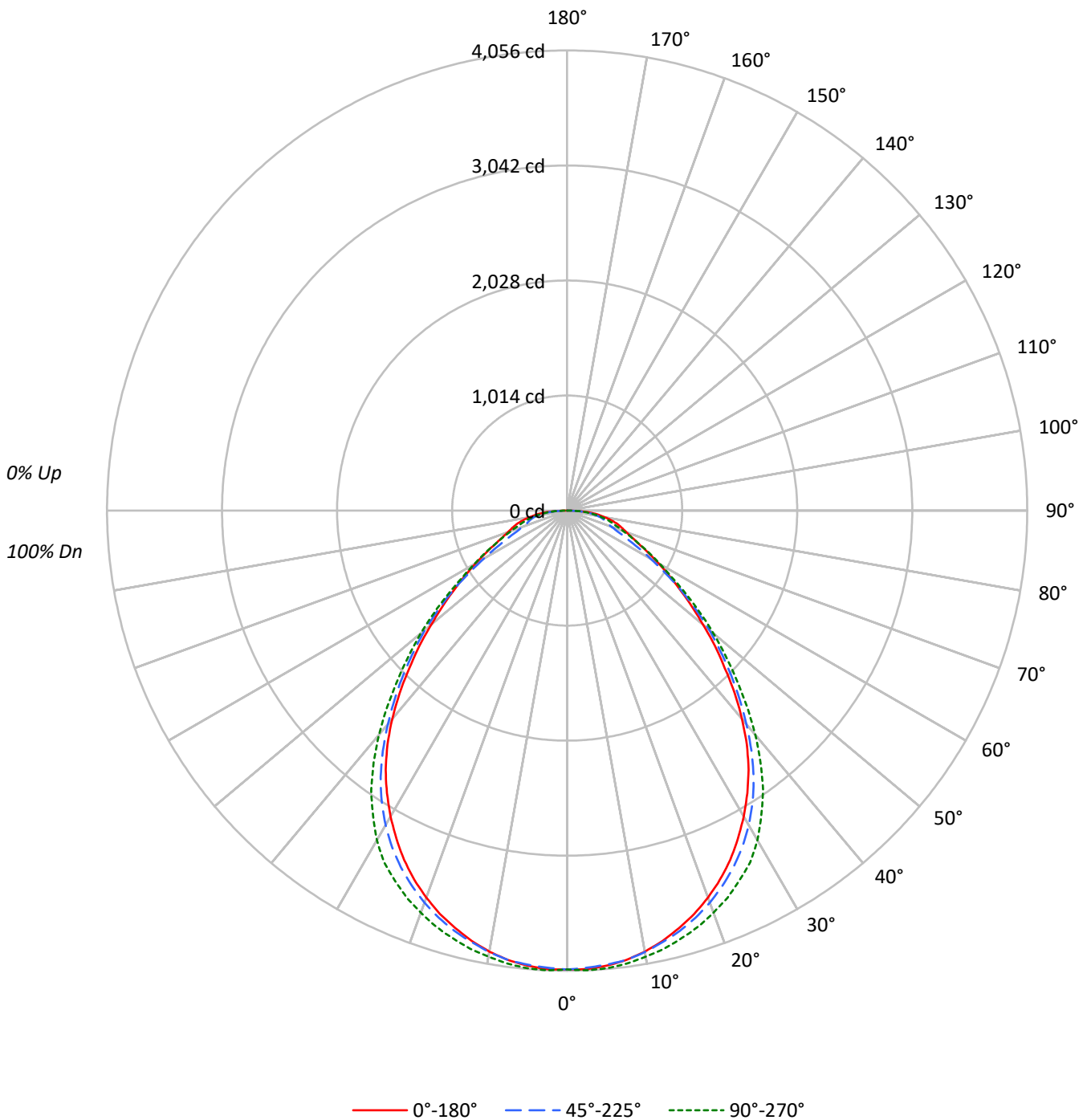
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10886	10886	10886
5°	10878	10850	10939
10°	10786	10796	10909
15°	10614	10689	10870
20°	10395	10530	10800
25°	10092	10297	10675
30°	9671	9944	10421
35°	9161	9417	9894
40°	8425	8632	9064
45°	7483	7755	8035
50°	6537	6836	7042
55°	5682	5761	5971
60°	5000	4581	5099
65°	4444	3661	4467
70°	4362	3250	4124
75°	4768	3575	4211
80°	5235	4245	4505
85°	6252	4931	5048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	4.4
10°-20°	1084.2	12.4
20°-30°	1600.6	18.2
30°-40°	1791.0	20.4
40°-50°	1572.8	17.9
50°-60°	1112.9	12.7
60°-70°	647.8	7.4
70°-80°	403.7	4.6
80°-90°	180.6	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°	3067.1	34.9
0°-40°	4858.1	55.4
0°-60°	7543.8	86.0
0°-90°	8775.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8775.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4045	4045	4045	4045	4045	
5°	4027	4017	4017	4037	4050	382
15°	3810	3818	3837	3877	3902	1073
25°	3399	3413	3468	3550	3595	1561
35°	2789	2801	2867	2953	3012	1735
45°	1966	1989	2038	2087	2111	1521
55°	1211	1236	1228	1250	1273	1095
65°	698	643	575	626	702	708
75°	459	395	344	352	405	479
85°	202	211	160	155	164	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.3	4045.3	4045.3	4045.3	4045.3
2.5°	4045.3	4037.1	4032.8	4047.4	4055.6
5°	4026.9	4016.6	4016.6	4037.1	4049.6
7.5°	3994.4	3984.1	3996.0	4014.4	4026.9
10°	3947.3	3942.9	3951.1	3976.0	3992.2
12.5°	3885.6	3887.7	3895.8	3934.8	3955.4
15°	3809.8	3817.9	3836.8	3877.4	3901.8
17.5°	3728.0	3734.5	3762.7	3809.8	3845.0
20°	3630.0	3641.9	3677.1	3736.1	3771.3
22.5°	3521.2	3535.8	3578.6	3650.6	3693.4
25°	3398.8	3412.9	3468.1	3549.9	3595.4
27.5°	3259.7	3281.9	3343.6	3433.5	3494.7
30°	3112.5	3130.9	3200.2	3302.5	3353.9
32.5°	2954.9	2977.1	3042.6	3140.6	3186.1
35°	2788.7	2801.2	2866.7	2952.7	3011.8
37.5°	2600.8	2606.8	2668.0	2748.1	2801.2
40°	2398.4	2402.1	2457.4	2533.2	2580.3
42.5°	2187.2	2189.4	2248.9	2305.8	2346.9
45°	1966.3	1989.1	2037.8	2087.1	2111.4
47.5°	1767.6	1784.4	1829.4	1872.1	1894.9
50°	1561.4	1602.0	1632.8	1655.6	1682.1
52.5°	1383.3	1417.9	1426.0	1452.5	1475.3
55°	1211.1	1236.0	1227.9	1250.1	1272.8
57.5°	1066.0	1053.5	1027.0	1066.0	1094.7
60°	929.0	896.0	851.1	904.7	947.4
62.5°	806.1	753.1	697.9	750.9	822.4
65°	697.9	642.6	575.0	626.4	701.6
67.5°	616.1	558.7	478.6	530.0	605.8
70°	554.4	495.4	413.1	456.4	524.1
72.5°	505.7	441.8	370.3	399.0	456.4
75°	458.6	394.7	343.8	351.9	405.0
77.5°	403.3	356.2	315.1	310.8	351.9
80°	337.8	323.2	273.9	268.0	290.7
82.5°	278.3	272.3	225.2	218.7	227.4
85°	202.5	210.6	159.7	155.4	163.5
87.5°	106.7	116.4	83.9	88.2	89.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)