

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: P475635

Luminaire Tested: **24GR-LD5-90-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475635
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9189.9 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

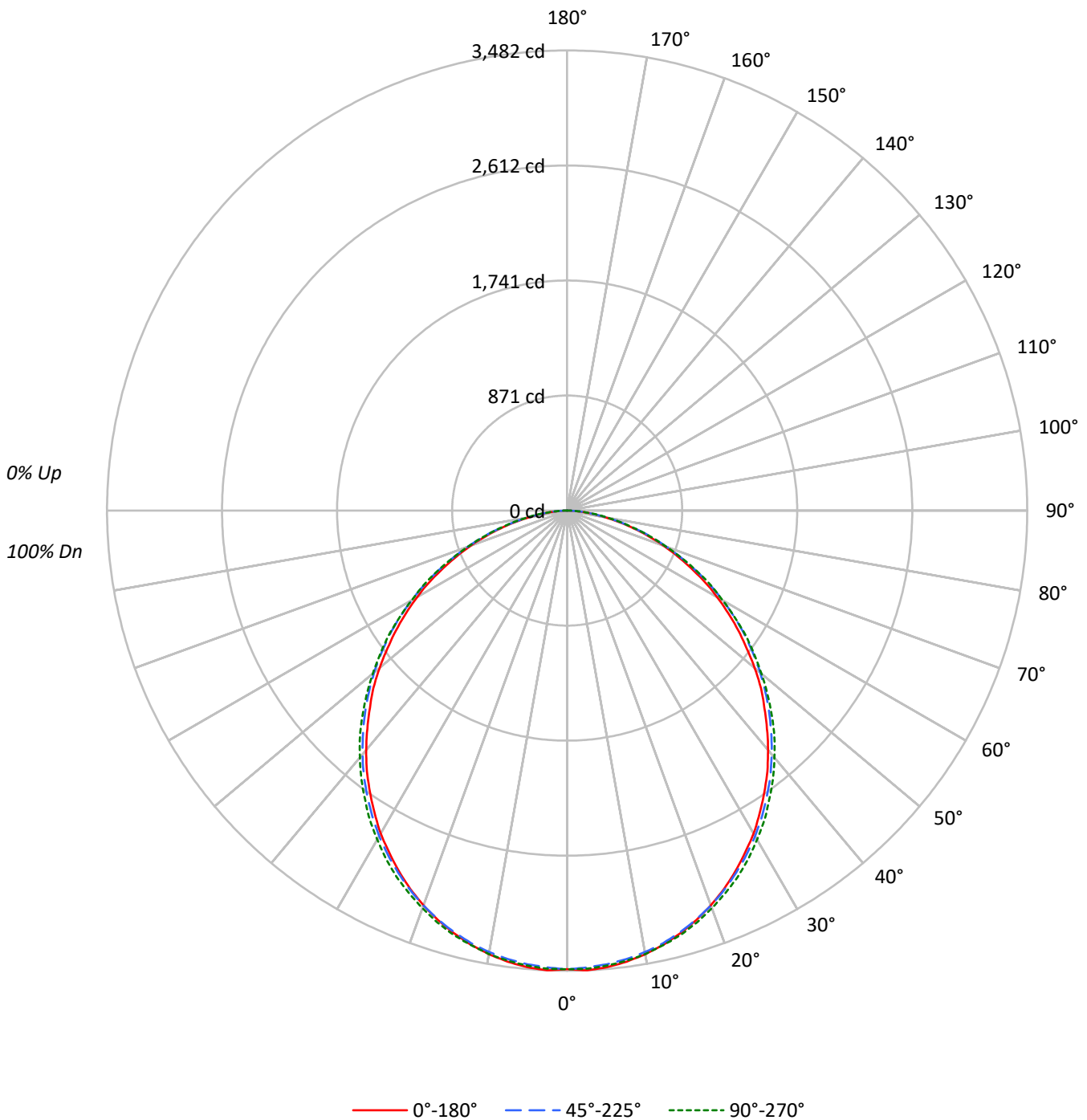
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4670	4670	4670
5°	4684	4654	4668
10°	4657	4635	4654
15°	4611	4601	4629
20°	4552	4553	4584
25°	4473	4490	4538
30°	4385	4418	4465
35°	4272	4331	4381
40°	4155	4230	4286
45°	4018	4116	4168
50°	3878	3991	4018
55°	3710	3843	3871
60°	3533	3653	3658
65°	3301	3428	3446
70°	3058	3144	3133
75°	2716	2814	2822
80°	2273	2353	2442
85°	1704	1834	1897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	3.6
10°-20°	933.0	10.2
20°-30°	1394.6	15.2
30°-40°	1647.7	17.9
40°-50°	1663.3	18.1
50°-60°	1451.6	15.8
60°-70°	1058.2	11.5
70°-80°	570.7	6.2
80°-90°	142.9	1.6
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°	2655.5	28.9
0°-40°	4303.2	46.8
0°-60°	7418.1	80.7
0°-90°	9189.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9189.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3471	3471	3471	3471	3471	
5°	3468	3456	3446	3449	3456	329
15°	3310	3303	3303	3311	3323	933
25°	3013	3013	3025	3044	3056	1387
35°	2601	2608	2637	2662	2667	1627
45°	2111	2126	2163	2190	2191	1630
55°	1582	1601	1638	1645	1650	1414
65°	1037	1059	1077	1079	1082	1030
75°	522	528	541	543	543	555
85°	110	113	119	124	123	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3470.6	3470.6	3470.6	3470.6	3470.6
2.5°	3482.1	3469.6	3459.7	3461.8	3470.1
5°	3468.0	3455.5	3446.1	3449.3	3456.0
7.5°	3443.0	3431.5	3424.2	3427.4	3436.2
10°	3408.6	3399.2	3392.5	3397.2	3406.5
12.5°	3364.9	3355.5	3352.9	3359.7	3368.0
15°	3310.2	3303.4	3302.9	3310.7	3323.2
17.5°	3248.7	3241.9	3245.6	3256.0	3266.9
20°	3178.9	3172.6	3179.9	3194.0	3201.3
22.5°	3099.2	3094.0	3107.0	3121.6	3131.0
25°	3012.7	3013.2	3024.7	3044.0	3056.5
27.5°	2916.8	2920.5	2937.7	2956.4	2968.9
30°	2822.5	2819.4	2843.9	2864.2	2873.6
32.5°	2713.1	2714.7	2743.4	2764.2	2778.3
35°	2601.1	2608.4	2636.6	2662.1	2667.3
37.5°	2488.1	2493.3	2527.2	2552.2	2558.9
40°	2365.7	2375.0	2408.4	2431.8	2440.2
42.5°	2238.0	2250.0	2286.0	2310.4	2321.4
45°	2111.4	2126.5	2163.0	2190.1	2190.6
47.5°	1989.0	2000.0	2035.4	2059.3	2056.7
50°	1852.5	1868.7	1906.7	1921.3	1919.7
52.5°	1712.9	1737.4	1772.3	1783.8	1782.2
55°	1581.6	1600.9	1638.4	1644.7	1650.4
57.5°	1445.7	1462.3	1503.0	1505.6	1504.5
60°	1312.8	1327.9	1357.6	1364.9	1359.2
62.5°	1178.9	1194.0	1220.6	1227.9	1226.9
65°	1036.7	1059.1	1076.8	1078.9	1082.5
67.5°	904.4	918.4	935.6	938.8	936.2
70°	777.3	789.2	799.1	801.2	796.5
72.5°	646.0	656.9	671.0	673.6	668.4
75°	522.5	527.7	541.3	543.4	542.8
77.5°	402.7	406.9	416.8	424.6	425.6
80°	293.3	294.9	303.7	309.4	315.2
82.5°	194.3	198.5	205.3	211.0	216.2
85°	110.4	113.0	118.8	124.5	122.9
87.5°	42.7	48.4	49.0	54.7	56.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)