

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: P475618

Luminaire Tested: **24GR-LD5-72-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475618
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7249.9 lumens
Efficiency: N/A
Efficacy: 148.9 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

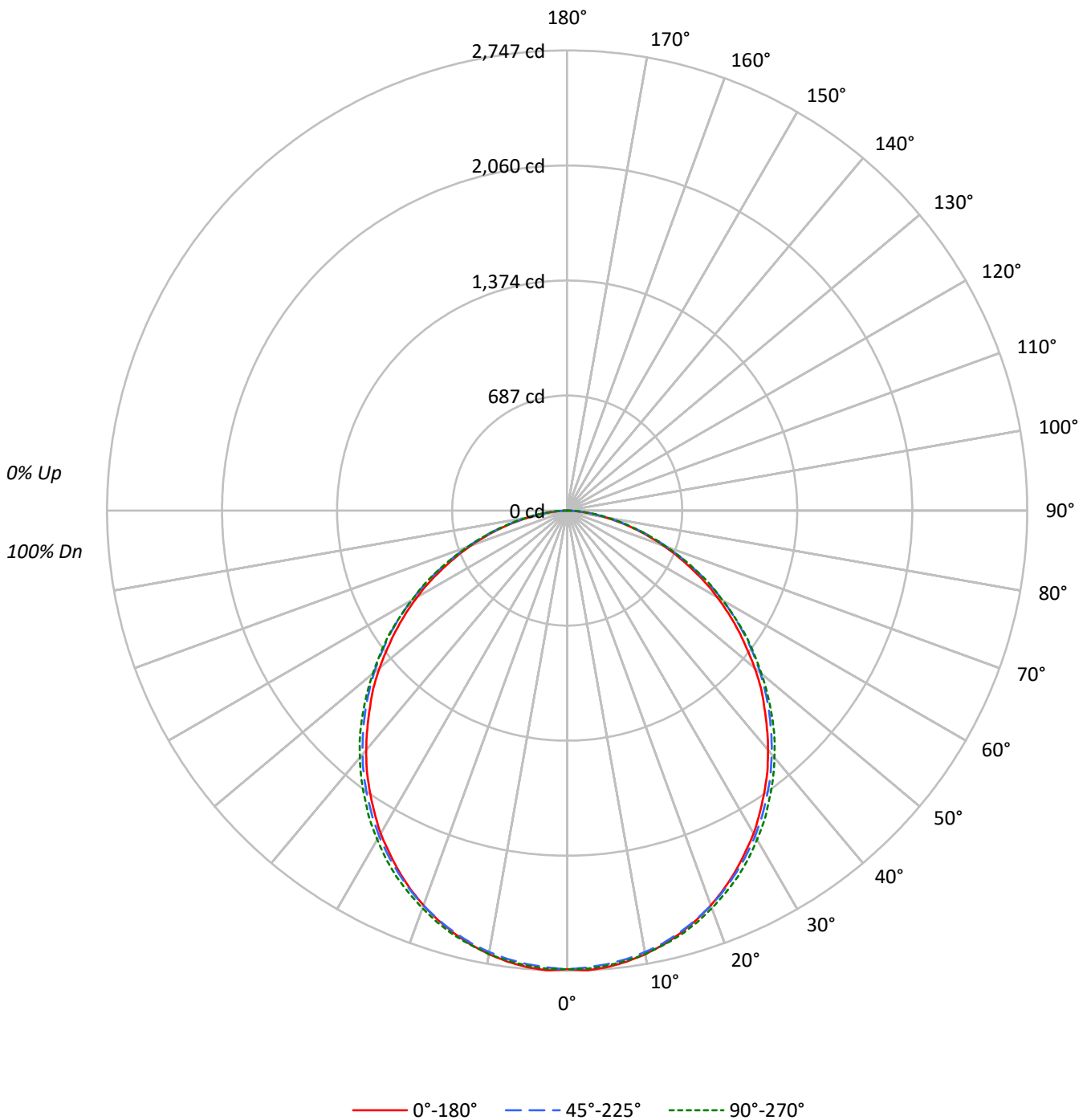
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3684	3684	3684
5°	3695	3672	3682
10°	3674	3656	3672
15°	3638	3629	3652
20°	3591	3592	3616
25°	3528	3543	3580
30°	3459	3486	3522
35°	3370	3416	3456
40°	3278	3337	3381
45°	3170	3247	3288
50°	3059	3149	3170
55°	2927	3032	3054
60°	2787	2882	2886
65°	2604	2705	2719
70°	2412	2480	2472
75°	2143	2220	2226
80°	1793	1857	1926
85°	1345	1447	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	3.6
10°-20°	736.0	10.2
20°-30°	1100.2	15.2
30°-40°	1299.9	17.9
40°-50°	1312.2	18.1
50°-60°	1145.2	15.8
60°-70°	834.8	11.5
70°-80°	450.2	6.2
80°-90°	112.7	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°	2094.9	28.9
0°-40°	3394.8	46.8
0°-60°	5852.2	80.7
0°-90°	7249.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7249.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2736	2726	2719	2721	2726	260
15°	2611	2606	2606	2612	2622	736
25°	2377	2377	2386	2401	2411	1094
35°	2052	2058	2080	2100	2104	1284
45°	1666	1678	1706	1728	1728	1286
55°	1248	1263	1292	1298	1302	1115
65°	818	836	850	851	854	813
75°	412	416	427	429	428	438
85°	87	89	94	98	97	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2738.0	2738.0	2738.0	2738.0	2738.0
2.5°	2747.0	2737.2	2729.4	2731.0	2737.6
5°	2735.9	2726.1	2718.7	2721.1	2726.5
7.5°	2716.2	2707.2	2701.4	2703.9	2710.9
10°	2689.1	2681.7	2676.3	2680.0	2687.4
12.5°	2654.6	2647.2	2645.1	2650.4	2657.0
15°	2611.4	2606.1	2605.6	2611.8	2621.7
17.5°	2562.9	2557.6	2560.4	2568.7	2577.3
20°	2507.8	2502.9	2508.7	2519.7	2525.5
22.5°	2444.9	2440.8	2451.1	2462.6	2470.0
25°	2376.7	2377.1	2386.2	2401.4	2411.2
27.5°	2301.1	2304.0	2317.5	2332.3	2342.2
30°	2226.7	2224.3	2243.6	2259.6	2267.0
32.5°	2140.4	2141.6	2164.2	2180.7	2191.8
35°	2052.0	2057.8	2080.0	2100.1	2104.2
37.5°	1962.9	1967.0	1993.7	2013.4	2018.8
40°	1866.3	1873.7	1900.0	1918.5	1925.1
42.5°	1765.6	1775.0	1803.4	1822.7	1831.3
45°	1665.7	1677.6	1706.4	1727.8	1728.2
47.5°	1569.1	1577.8	1605.7	1624.6	1622.6
50°	1461.5	1474.2	1504.2	1515.7	1514.5
52.5°	1351.3	1370.6	1398.2	1407.2	1406.0
55°	1247.8	1263.0	1292.5	1297.5	1302.0
57.5°	1140.5	1153.6	1185.7	1187.7	1186.9
60°	1035.7	1047.6	1071.0	1076.8	1072.3
62.5°	930.1	942.0	962.9	968.7	967.9
65°	817.9	835.5	849.5	851.1	854.0
67.5°	713.5	724.6	738.1	740.6	738.5
70°	613.2	622.6	630.5	632.1	628.4
72.5°	509.6	518.3	529.3	531.4	527.3
75°	412.2	416.3	427.0	428.7	428.2
77.5°	317.7	321.0	328.8	335.0	335.8
80°	231.4	232.6	239.6	244.1	248.6
82.5°	153.3	156.6	161.9	166.4	170.6
85°	87.1	89.2	93.7	98.2	97.0
87.5°	33.7	38.2	38.6	43.2	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)