

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: P475633

Luminaire Tested: **24GR-LD5-72-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475633
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-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: 7257.1 lumens
Efficiency: N/A
Efficacy: 149.0 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

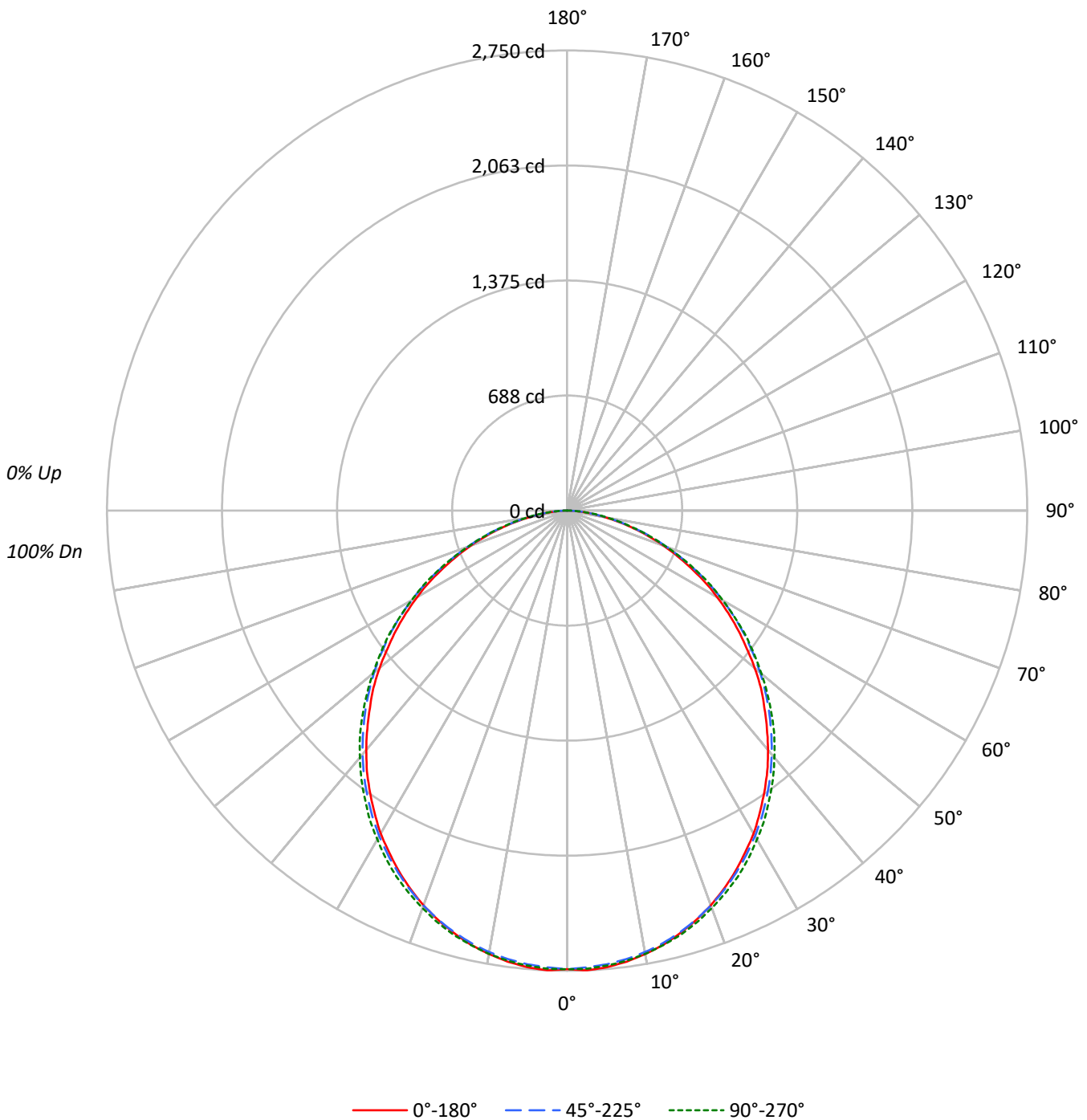
Input Watts (W): 48.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3688	3688	3688
5°	3699	3675	3686
10°	3678	3660	3675
15°	3641	3633	3655
20°	3594	3595	3620
25°	3532	3546	3583
30°	3463	3489	3526
35°	3374	3420	3460
40°	3281	3340	3384
45°	3173	3250	3292
50°	3062	3152	3173
55°	2930	3035	3057
60°	2790	2885	2888
65°	2606	2707	2722
70°	2415	2483	2474
75°	2145	2222	2229
80°	1795	1858	1929
85°	1346	1448	1499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	3.6
10°-20°	736.7	10.2
20°-30°	1101.3	15.2
30°-40°	1301.1	17.9
40°-50°	1313.5	18.1
50°-60°	1146.3	15.8
60°-70°	835.7	11.5
70°-80°	450.7	6.2
80°-90°	112.8	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°	2097.0	28.9
0°-40°	3398.1	46.8
0°-60°	5857.9	80.7
0°-90°	7257.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7257.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2739	2729	2721	2724	2729	260
15°	2614	2609	2608	2614	2624	737
25°	2379	2380	2388	2404	2414	1095
35°	2054	2060	2082	2102	2106	1285
45°	1667	1679	1708	1730	1730	1287
55°	1249	1264	1294	1299	1303	1116
65°	819	836	850	852	855	814
75°	413	417	427	429	429	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°	2740.7	2740.7	2740.7	2740.7	2740.7
2.5°	2749.7	2739.8	2732.0	2733.7	2740.3
5°	2738.6	2728.7	2721.3	2723.8	2729.1
7.5°	2718.9	2709.8	2704.1	2706.5	2713.5
10°	2691.7	2684.3	2679.0	2682.7	2690.1
12.5°	2657.2	2649.8	2647.7	2653.0	2659.6
15°	2614.0	2608.6	2608.2	2614.4	2624.2
17.5°	2565.4	2560.1	2562.9	2571.2	2579.8
20°	2510.3	2505.4	2511.1	2522.2	2528.0
22.5°	2447.3	2443.2	2453.5	2465.0	2472.4
25°	2379.1	2379.5	2388.5	2403.7	2413.6
27.5°	2303.4	2306.2	2319.8	2334.6	2344.5
30°	2228.9	2226.4	2245.8	2261.8	2269.2
32.5°	2142.5	2143.7	2166.4	2182.8	2193.9
35°	2054.1	2059.8	2082.0	2102.2	2106.3
37.5°	1964.8	1968.9	1995.6	2015.4	2020.7
40°	1868.1	1875.5	1901.8	1920.4	1926.9
42.5°	1767.3	1776.8	1805.2	1824.5	1833.1
45°	1667.4	1679.3	1708.1	1729.5	1729.9
47.5°	1570.7	1579.3	1607.3	1626.2	1624.2
50°	1462.9	1475.6	1505.7	1517.2	1516.0
52.5°	1352.6	1372.0	1399.5	1408.6	1407.4
55°	1249.0	1264.2	1293.8	1298.8	1303.3
57.5°	1141.6	1154.8	1186.9	1188.9	1188.1
60°	1036.7	1048.6	1072.1	1077.8	1073.3
62.5°	931.0	942.9	963.9	969.6	968.8
65°	818.7	836.4	850.3	852.0	854.9
67.5°	714.2	725.3	738.9	741.3	739.3
70°	613.8	623.3	631.1	632.7	629.0
72.5°	510.1	518.8	529.9	531.9	527.8
75°	412.6	416.7	427.4	429.1	428.7
77.5°	318.0	321.3	329.1	335.3	336.1
80°	231.6	232.8	239.8	244.4	248.9
82.5°	153.4	156.7	162.1	166.6	170.7
85°	87.2	89.3	93.8	98.3	97.1
87.5°	33.7	38.3	38.7	43.2	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)