

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: P475962

Luminaire Tested: **22GR-LD5-70-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475962
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-70-F125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7192.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

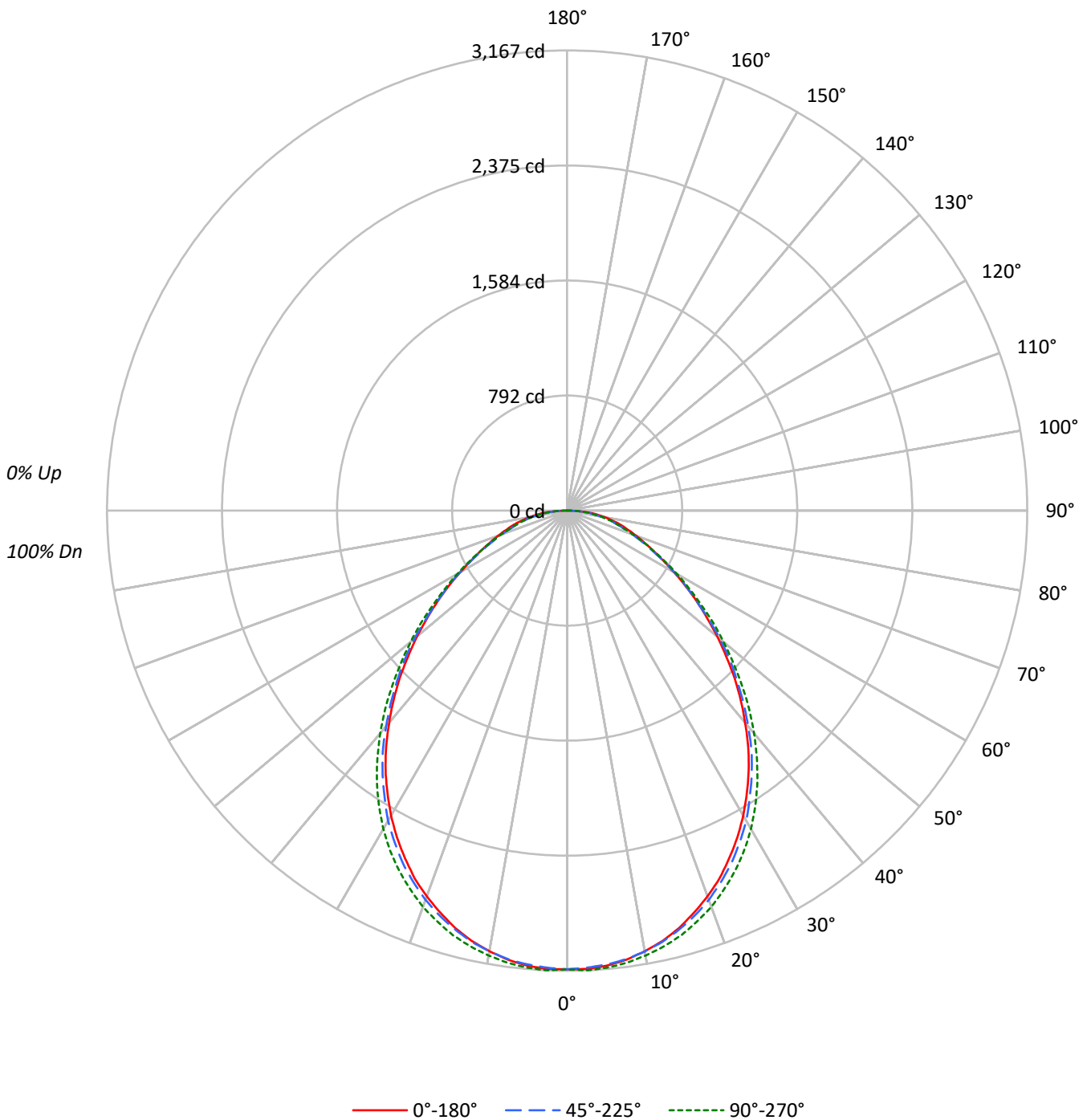
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8496	8496	8496
5°	8493	8470	8528
10°	8413	8418	8496
15°	8285	8312	8434
20°	8090	8163	8310
25°	7839	7948	8121
30°	7529	7659	7861
35°	7159	7275	7500
40°	6695	6805	7029
45°	6198	6294	6477
50°	5645	5735	5883
55°	5097	5112	5261
60°	4572	4588	4698
65°	4166	4079	4174
70°	3964	3741	3807
75°	3989	3608	3627
80°	4139	3646	3620
85°	4539	3856	3653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.3	4.1
10°-20°	842.6	11.7
20°-30°	1233.3	17.1
30°-40°	1386.7	19.3
40°-50°	1278.8	17.8
50°-60°	985.6	13.7
60°-70°	650.3	9.0
70°-80°	378.5	5.3
80°-90°	137.8	1.9
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°	2374.3	33.0
0°-40°	3760.9	52.3
0°-60°	6025.4	83.8
0°-90°	7192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3157	3157	3157	3157	3157	
5°	3144	3137	3136	3151	3157	298
15°	2974	2974	2984	3011	3027	837
25°	2640	2653	2677	2714	2735	1214
35°	2179	2189	2215	2260	2283	1359
45°	1629	1630	1654	1687	1702	1254
55°	1086	1085	1090	1108	1121	975
65°	654	651	641	646	656	656
75°	384	367	347	340	349	404
85°	147	145	125	115	118	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3157.2	3157.2	3157.2	3157.2	3157.2
2.5°	3157.2	3150.6	3148.8	3160.7	3167.4
5°	3144.0	3137.3	3135.6	3150.6	3157.2
7.5°	3117.5	3112.2	3113.9	3130.7	3139.1
10°	3079.0	3077.3	3080.8	3098.9	3109.1
12.5°	3034.0	3032.3	3038.9	3058.7	3072.4
15°	2974.0	2974.0	2983.7	3010.6	3027.4
17.5°	2902.0	2906.9	2921.9	2948.8	2966.9
20°	2825.2	2830.5	2850.4	2880.4	2902.0
22.5°	2740.0	2747.0	2766.9	2803.6	2822.1
25°	2640.2	2653.4	2676.8	2713.5	2735.1
27.5°	2536.4	2551.5	2573.1	2618.6	2638.4
30°	2423.0	2433.1	2464.9	2506.4	2529.8
32.5°	2302.9	2313.0	2339.5	2389.9	2409.7
35°	2179.3	2189.4	2214.6	2259.6	2283.0
37.5°	2045.9	2054.3	2084.3	2119.2	2144.4
40°	1906.0	1917.5	1937.3	1979.3	2000.9
42.5°	1769.1	1774.0	1795.6	1837.5	1853.9
45°	1628.7	1630.5	1653.9	1687.0	1702.0
47.5°	1483.5	1487.0	1515.2	1535.1	1550.1
50°	1348.4	1350.1	1370.0	1388.5	1405.3
52.5°	1213.3	1213.3	1223.4	1243.3	1264.9
55°	1086.5	1084.8	1089.6	1108.2	1121.4
57.5°	966.5	964.7	971.3	982.8	992.9
60°	849.5	845.9	852.5	859.6	872.9
62.5°	746.1	749.2	740.8	751.0	761.2
65°	654.3	650.8	640.6	645.9	655.6
67.5°	575.7	570.9	554.1	557.2	569.1
70°	503.8	494.0	475.5	475.5	483.9
72.5°	438.9	428.7	405.3	407.1	410.6
75°	383.7	367.3	347.0	340.4	348.8
77.5°	323.6	310.4	291.8	287.0	290.5
80°	267.1	257.0	235.3	228.7	233.6
82.5°	211.9	203.5	178.4	173.5	175.3
85°	147.0	145.3	124.9	115.2	118.3
87.5°	78.6	79.9	64.9	58.3	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)