

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: P475974

Luminaire Tested: **22GR-LD5-70-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475974
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-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199.1 lumens
Efficiency: N/A
Efficacy: 137.6 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

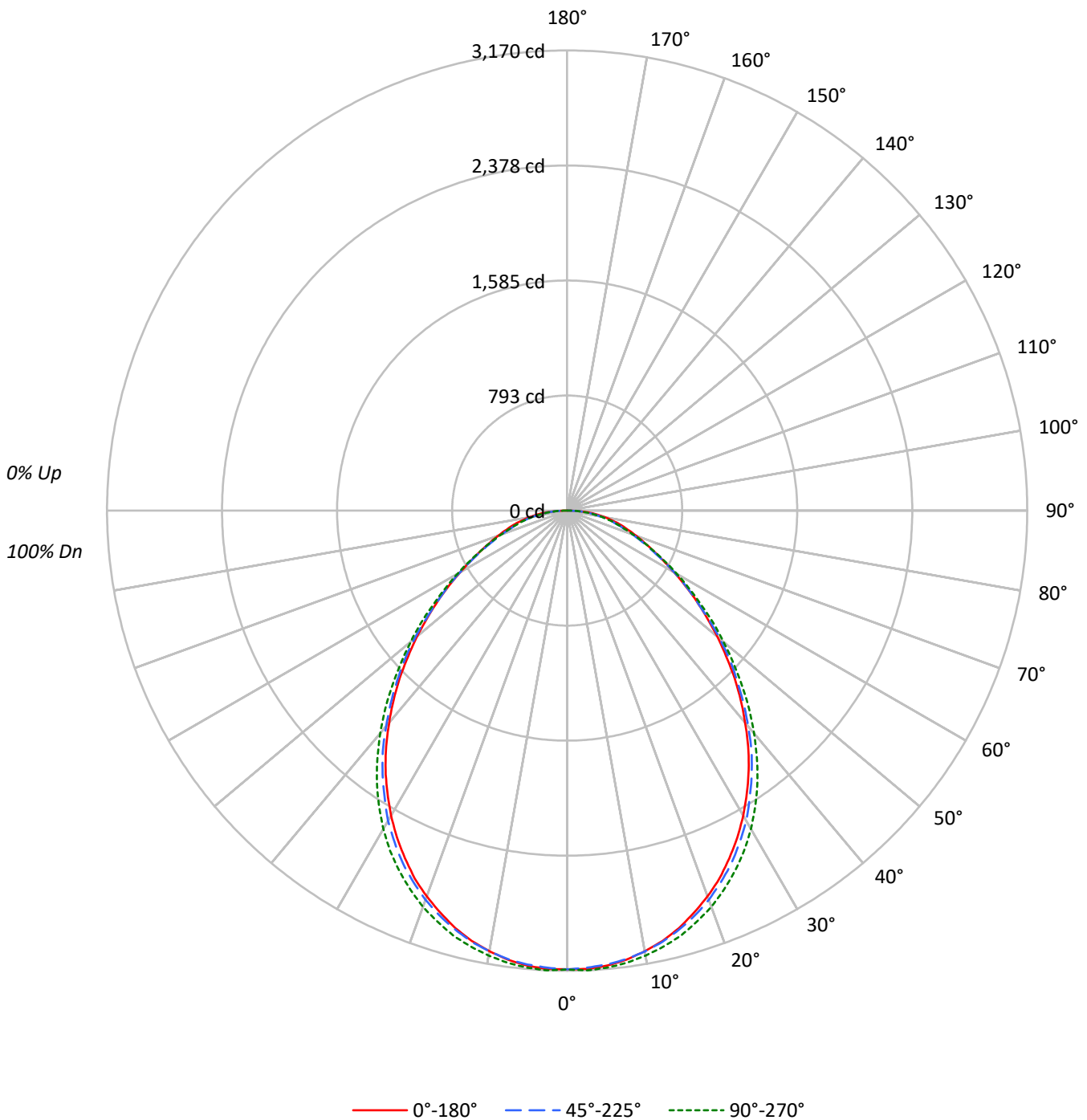
Input Watts (W): 52.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8504	8504	8504
5°	8501	8478	8537
10°	8422	8426	8504
15°	8293	8320	8442
20°	8098	8170	8319
25°	7847	7956	8129
30°	7536	7667	7869
35°	7166	7282	7507
40°	6702	6812	7036
45°	6204	6300	6484
50°	5650	5741	5889
55°	5103	5117	5266
60°	4576	4593	4702
65°	4171	4083	4179
70°	3968	3745	3811
75°	3993	3612	3630
80°	4144	3651	3623
85°	4545	3863	3656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	4.1
10°-20°	843.5	11.7
20°-30°	1234.5	17.1
30°-40°	1388.0	19.3
40°-50°	1280.0	17.8
50°-60°	986.6	13.7
60°-70°	651.0	9.0
70°-80°	378.9	5.3
80°-90°	138.0	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°	2376.6	33.0
0°-40°	3764.6	52.3
0°-60°	6031.2	83.8
0°-90°	7199.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7199.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3160	3160	3160	3160	3160	
5°	3147	3140	3139	3154	3160	298
15°	2977	2977	2987	3014	3030	838
25°	2643	2656	2680	2716	2738	1215
35°	2181	2192	2217	2262	2285	1360
45°	1630	1632	1656	1689	1704	1255
55°	1088	1086	1091	1109	1122	976
65°	655	651	641	647	656	657
75°	384	368	347	341	349	405
85°	147	145	125	115	118	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3160.3	3160.3	3160.3	3160.3	3160.3
2.5°	3160.3	3153.7	3151.9	3163.8	3170.5
5°	3147.0	3140.4	3138.6	3153.7	3160.3
7.5°	3120.5	3115.2	3117.0	3133.8	3142.2
10°	3082.1	3080.3	3083.8	3102.0	3112.1
12.5°	3037.0	3035.2	3041.9	3061.7	3075.4
15°	2976.9	2976.9	2986.6	3013.6	3030.4
17.5°	2904.9	2909.7	2924.7	2951.7	2969.8
20°	2828.0	2833.3	2853.1	2883.2	2904.9
22.5°	2742.7	2749.7	2769.6	2806.3	2824.9
25°	2642.8	2656.0	2679.5	2716.1	2737.8
27.5°	2538.9	2554.0	2575.6	2621.1	2641.0
30°	2425.4	2435.5	2467.3	2508.9	2532.3
32.5°	2305.1	2315.3	2341.8	2392.2	2412.1
35°	2181.4	2191.6	2216.8	2261.8	2285.3
37.5°	2047.9	2056.3	2086.4	2121.3	2146.5
40°	1907.8	1919.3	1939.2	1981.2	2002.9
42.5°	1770.8	1775.7	1797.4	1839.3	1855.7
45°	1630.3	1632.1	1655.5	1688.6	1703.7
47.5°	1484.9	1488.4	1516.7	1536.6	1551.6
50°	1349.7	1351.4	1371.3	1389.9	1406.7
52.5°	1214.4	1214.4	1224.6	1244.5	1266.2
55°	1087.6	1085.8	1090.7	1109.3	1122.5
57.5°	967.4	965.6	972.3	983.8	993.9
60°	850.3	846.8	853.4	860.5	873.7
62.5°	746.9	750.0	741.6	751.7	761.9
65°	655.0	651.4	641.3	646.6	656.3
67.5°	576.3	571.4	554.6	557.7	569.7
70°	504.3	494.5	476.0	476.0	484.4
72.5°	439.3	429.1	405.7	407.5	411.0
75°	384.0	367.7	347.4	340.7	349.1
77.5°	323.9	310.7	292.1	287.3	290.8
80°	267.4	257.2	235.6	228.9	233.8
82.5°	212.1	203.7	178.5	173.7	175.4
85°	147.2	145.4	125.1	115.3	118.4
87.5°	78.7	80.0	65.0	58.3	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)