

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: P475925

Luminaire Tested: **22GR-LD5-60-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475925
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-F1-UNV-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6088.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.17 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

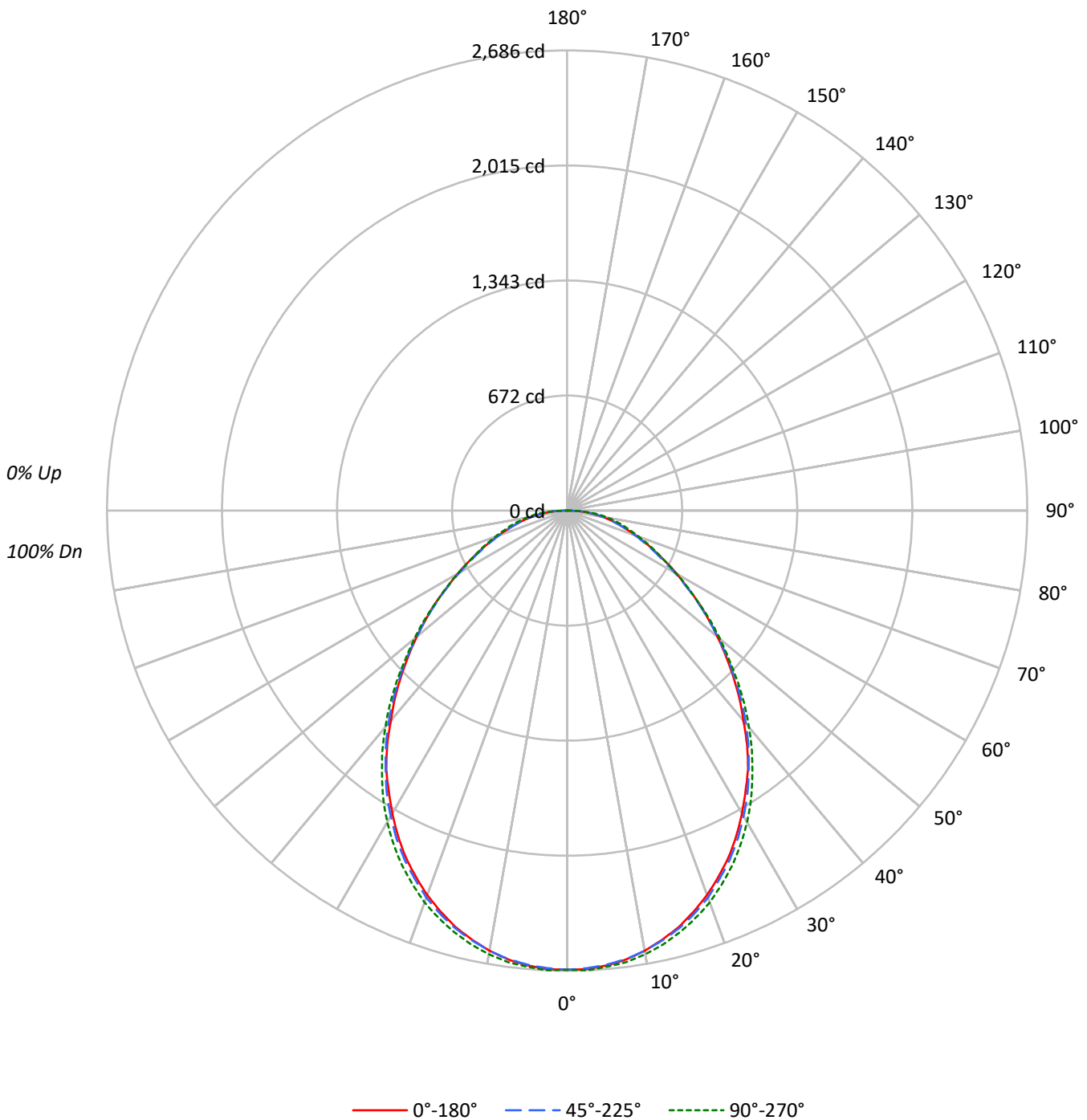
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93		94	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45		56	49	44		54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36		47	40	36		46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33		43	37	32		42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7213	7213	7213
5°	7199	7186	7220
10°	7128	7128	7185
15°	7010	7032	7096
20°	6838	6882	6970
25°	6625	6671	6777
30°	6343	6398	6526
35°	6048	6065	6191
40°	5619	5700	5800
45°	5218	5267	5345
50°	4794	4794	4869
55°	4397	4349	4373
60°	3980	3911	3966
65°	3629	3548	3662
70°	3353	3334	3495
75°	3230	3203	3524
80°	3262	3262	3741
85°	3409	3566	4282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	4.2
10°-20°	711.6	11.7
20°-30°	1034.6	17.0
30°-40°	1158.1	19.0
40°-50°	1068.9	17.6
50°-60°	834.1	13.7
60°-70°	564.6	9.3
70°-80°	337.2	5.5
80°-90°	126.7	2.1
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°	1999.0	32.8
0°-40°	3157.0	51.9
0°-60°	5060.0	83.1
0°-90°	6088.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6088.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2665	2660	2660	2670	2673	253
15°	2516	2516	2524	2539	2547	708
25°	2231	2231	2247	2270	2283	1025
35°	1841	1838	1846	1874	1885	1145
45°	1371	1379	1384	1394	1404	1058
55°	937	930	927	932	932	836
65°	570	565	557	567	575	568
75°	311	308	308	326	339	330
85°	110	108	116	134	139	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2680.6	2680.6	2680.6	2680.6	2680.6
2.5°	2678.0	2672.9	2672.9	2680.6	2685.7
5°	2665.2	2660.1	2660.1	2670.3	2672.9
7.5°	2642.1	2639.5	2639.5	2649.8	2657.5
10°	2608.7	2606.1	2608.7	2619.0	2629.3
12.5°	2565.1	2565.1	2570.2	2583.0	2593.3
15°	2516.3	2516.3	2524.0	2539.4	2547.1
17.5°	2454.7	2457.2	2467.5	2485.5	2493.2
20°	2387.9	2393.0	2403.3	2418.7	2434.1
22.5°	2310.9	2316.0	2326.3	2349.4	2359.7
25°	2231.3	2231.3	2246.7	2269.8	2282.6
27.5°	2138.8	2141.4	2156.8	2182.5	2195.3
30°	2041.3	2049.0	2059.2	2082.3	2100.3
32.5°	1938.6	1946.3	1959.1	1984.8	1997.6
35°	1841.0	1838.4	1846.1	1874.4	1884.6
37.5°	1725.4	1728.0	1738.3	1758.8	1771.7
40°	1599.6	1612.5	1622.7	1638.1	1651.0
42.5°	1489.2	1496.9	1504.6	1520.0	1530.3
45°	1371.1	1378.8	1384.0	1394.2	1404.5
47.5°	1255.6	1258.1	1265.8	1271.0	1278.7
50°	1145.2	1147.7	1145.2	1152.9	1163.1
52.5°	1037.3	1034.8	1034.8	1037.3	1052.7
55°	937.2	929.5	926.9	932.0	932.0
57.5°	826.8	824.2	824.2	821.6	834.5
60°	739.5	731.8	726.6	731.8	736.9
62.5°	649.6	641.9	636.8	647.0	647.0
65°	570.0	564.9	557.2	567.4	575.1
67.5°	493.0	487.8	485.3	498.1	508.4
70°	426.2	423.7	423.7	436.5	444.2
72.5°	364.6	362.0	362.0	380.0	387.7
75°	310.7	308.1	308.1	326.1	338.9
77.5°	256.8	254.2	261.9	277.3	290.1
80°	210.5	208.0	210.5	231.1	241.4
82.5°	159.2	159.2	164.3	184.9	195.1
85°	110.4	107.8	115.5	133.5	138.7
87.5°	56.5	59.1	61.6	71.9	71.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)