

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: P475901

Luminaire Tested: **22GR-LD5-60-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475901
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5969.1 lumens
Efficiency: N/A
Efficacy: 134.4 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

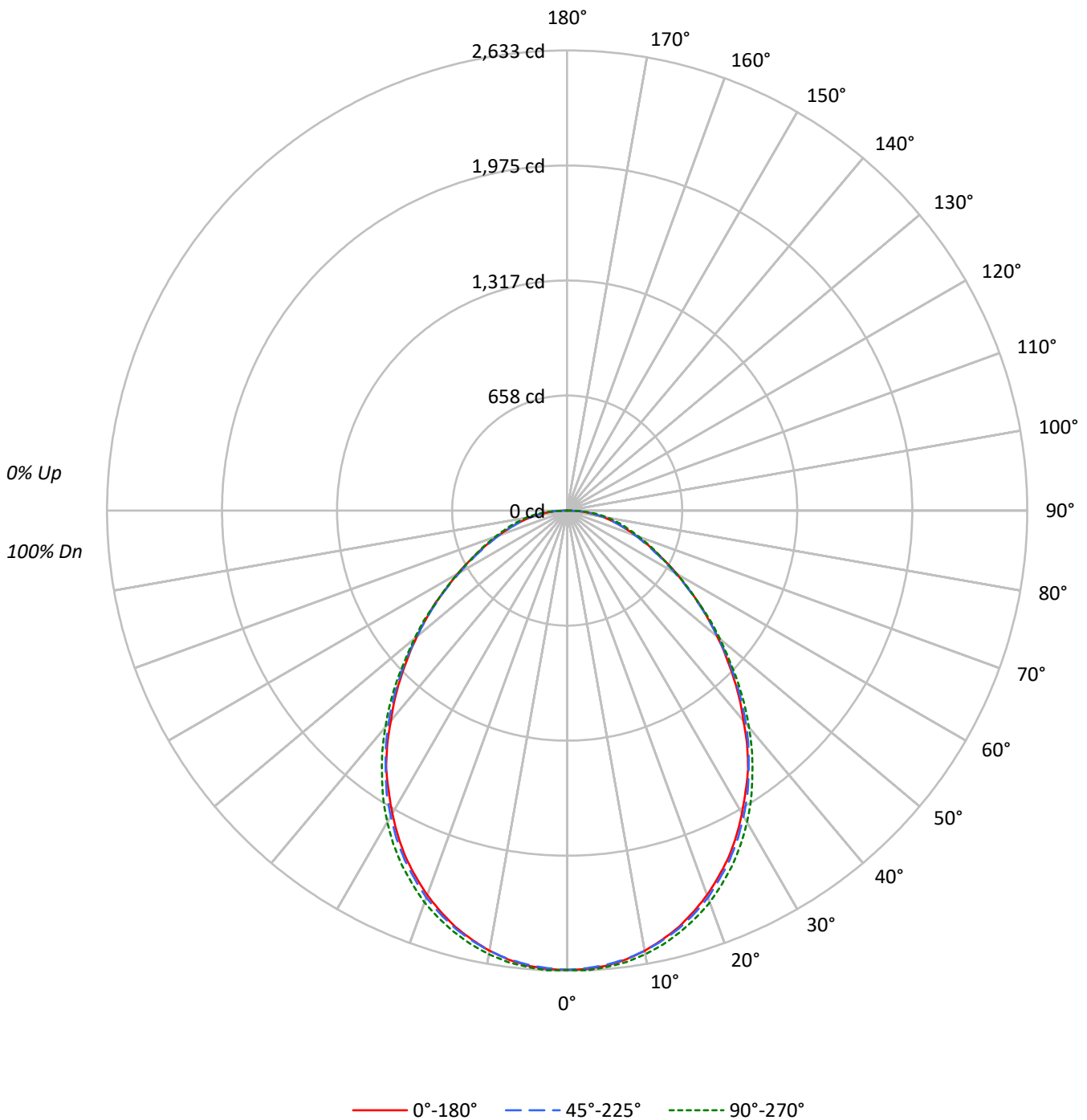
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475901

CATALOG NUMBER: 22GR-LD5-60-F1-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475901

CATALOG NUMBER: 22GR-LD5-60-F1-UNV-L835-CD1-U

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°	7072	7072	7072
5°	7058	7045	7079
10°	6989	6989	7044
15°	6873	6894	6957
20°	6704	6747	6834
25°	6495	6540	6645
30°	6218	6273	6398
35°	5929	5946	6070
40°	5509	5589	5686
45°	5116	5163	5240
50°	4700	4700	4774
55°	4311	4263	4287
60°	3902	3834	3888
65°	3558	3479	3591
70°	3288	3268	3426
75°	3167	3141	3455
80°	3199	3199	3667
85°	3341	3498	4196



TEST NUMBER: P475901

CATALOG NUMBER: 22GR-LD5-60-F1-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	4.2
10°-20°	697.6	11.7
20°-30°	1014.3	17.0
30°-40°	1135.4	19.0
40°-50°	1047.9	17.6
50°-60°	817.7	13.7
60°-70°	553.6	9.3
70°-80°	330.6	5.5
80°-90°	124.2	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°	1959.8	32.8
0°-40°	3095.1	51.9
0°-60°	4960.8	83.1
0°-90°	5969.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5969.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2628	2628	2628	2628	2628	
5°	2613	2608	2608	2618	2620	248
15°	2467	2467	2474	2490	2497	694
25°	2188	2188	2203	2225	2238	1005
35°	1805	1802	1810	1838	1848	1123
45°	1344	1352	1357	1367	1377	1037
55°	919	911	909	914	914	820
65°	559	554	546	556	564	557
75°	305	302	302	320	332	323
85°	108	106	113	131	136	115
90°	0	0	0	0	0	



TEST NUMBER: P475901

CATALOG NUMBER: 22GR-LD5-60-F1-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2625.5	2620.5	2620.5	2628.0	2633.1
5°	2612.9	2607.9	2607.9	2618.0	2620.5
7.5°	2590.3	2587.8	2587.8	2597.8	2605.4
10°	2557.6	2555.0	2557.6	2567.6	2577.7
12.5°	2514.8	2514.8	2519.8	2532.4	2542.5
15°	2466.9	2466.9	2474.5	2489.6	2497.1
17.5°	2406.5	2409.0	2419.1	2436.7	2444.3
20°	2341.1	2346.1	2356.2	2371.3	2386.4
22.5°	2265.6	2270.6	2280.7	2303.3	2313.4
25°	2187.5	2187.5	2202.6	2225.3	2237.9
27.5°	2096.9	2099.4	2114.5	2139.7	2152.3
30°	2001.2	2008.8	2018.9	2041.5	2059.1
32.5°	1900.6	1908.1	1920.7	1945.9	1958.4
35°	1804.9	1802.4	1809.9	1837.6	1847.7
37.5°	1691.6	1694.1	1704.2	1724.3	1736.9
40°	1568.3	1580.9	1590.9	1606.0	1618.6
42.5°	1460.0	1467.6	1475.1	1490.2	1500.3
45°	1344.2	1351.8	1356.8	1366.9	1377.0
47.5°	1231.0	1233.5	1241.0	1246.1	1253.6
50°	1122.7	1125.2	1122.7	1130.3	1140.3
52.5°	1017.0	1014.5	1014.5	1017.0	1032.1
55°	918.8	911.3	908.7	913.8	913.8
57.5°	810.6	808.0	808.0	805.5	818.1
60°	725.0	717.4	712.4	717.4	722.5
62.5°	636.9	629.3	624.3	634.4	634.4
65°	558.8	553.8	546.3	556.3	563.9
67.5°	483.3	478.3	475.8	488.4	498.4
70°	417.9	415.4	415.4	427.9	435.5
72.5°	357.5	354.9	354.9	372.6	380.1
75°	304.6	302.1	302.1	319.7	332.3
77.5°	251.7	249.2	256.8	271.9	284.5
80°	206.4	203.9	206.4	226.6	236.6
82.5°	156.1	156.1	161.1	181.2	191.3
85°	108.2	105.7	113.3	130.9	135.9
87.5°	55.4	57.9	60.4	70.5	70.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)