

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: P476045

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476045
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5791.8 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

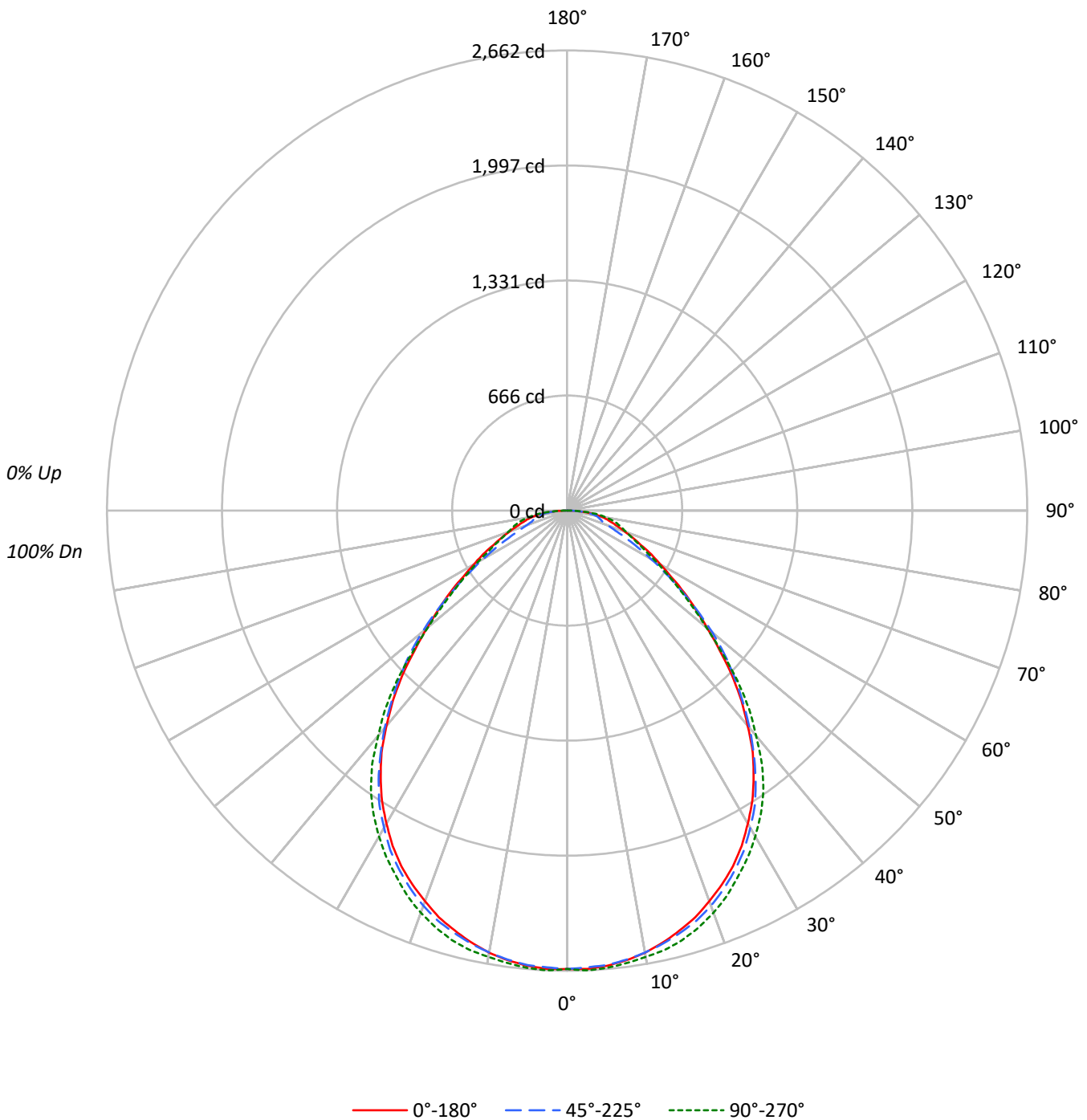
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7137	7137	7137
5°	7140	7129	7172
10°	7097	7094	7163
15°	7007	7044	7168
20°	6886	6966	7090
25°	6739	6815	6939
30°	6495	6584	6763
35°	6177	6247	6500
40°	5710	5772	5975
45°	5129	5221	5304
50°	4434	4593	4389
55°	3870	3768	3718
60°	3351	3017	3221
65°	2995	2369	2893
70°	2778	1961	2854
75°	2774	2073	3167
80°	3073	2608	3570
85°	3205	2831	4042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	4.3
10°-20°	714.9	12.3
20°-30°	1057.3	18.3
30°-40°	1193.1	20.6
40°-50°	1051.8	18.2
50°-60°	721.5	12.5
60°-70°	425.8	7.4
70°-80°	265.7	4.6
80°-90°	110.8	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°	2023.2	34.9
0°-40°	3216.3	55.5
0°-60°	4989.6	86.1
0°-90°	5791.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5791.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2643	2638	2639	2648	2655	251
15°	2515	2518	2529	2560	2573	709
25°	2270	2278	2295	2325	2337	1042
35°	1880	1896	1902	1948	1979	1172
45°	1348	1354	1372	1380	1394	1035
55°	825	805	803	776	792	740
65°	470	414	372	430	454	474
75°	267	240	199	279	305	286
85°	104	97	92	120	131	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2653.8	2647.0	2644.5	2655.2	2662.0
5°	2643.1	2637.7	2639.2	2648.4	2655.2
7.5°	2624.2	2620.3	2620.3	2633.4	2640.2
10°	2597.1	2596.0	2596.0	2612.0	2621.3
12.5°	2559.6	2560.7	2566.0	2587.8	2603.8
15°	2515.0	2517.5	2528.6	2559.6	2572.8
17.5°	2466.5	2466.5	2487.9	2512.2	2528.6
20°	2404.5	2408.4	2432.7	2459.8	2475.8
22.5°	2341.0	2347.8	2368.1	2399.1	2413.8
25°	2269.7	2277.9	2295.3	2325.0	2337.1
27.5°	2186.2	2196.9	2215.8	2237.2	2262.9
30°	2090.3	2106.7	2118.8	2148.4	2176.6
32.5°	1993.3	2008.3	2021.8	2052.8	2084.9
35°	1880.2	1896.3	1901.6	1947.6	1978.7
37.5°	1764.3	1771.1	1773.6	1819.6	1853.1
40°	1625.6	1638.8	1643.1	1679.4	1700.8
42.5°	1491.8	1497.5	1505.4	1532.5	1558.2
45°	1347.8	1354.5	1372.0	1380.2	1393.8
47.5°	1196.9	1217.2	1237.2	1211.5	1212.9
50°	1059.2	1075.6	1097.0	1048.5	1048.5
52.5°	936.5	944.7	946.2	905.9	913.7
55°	824.9	804.6	803.2	776.4	792.5
57.5°	712.9	686.2	676.6	668.3	687.2
60°	622.7	574.2	560.6	572.8	598.4
62.5°	548.5	486.5	460.8	491.8	515.0
65°	470.4	413.7	372.0	430.1	454.4
67.5°	409.8	355.9	302.1	384.1	401.6
70°	353.1	311.3	249.3	349.2	362.7
72.5°	307.4	275.0	215.8	315.3	331.7
75°	266.8	240.0	199.4	278.9	304.6
77.5°	234.7	204.7	186.2	241.1	272.1
80°	198.3	168.3	168.3	202.2	230.4
82.5°	156.2	132.0	136.2	164.4	184.7
85°	103.8	97.0	91.7	119.8	130.9
87.5°	52.4	53.9	48.5	62.1	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)