

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: P476093

Luminaire Tested: **22GR-LD5-60-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476093
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5994.9 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

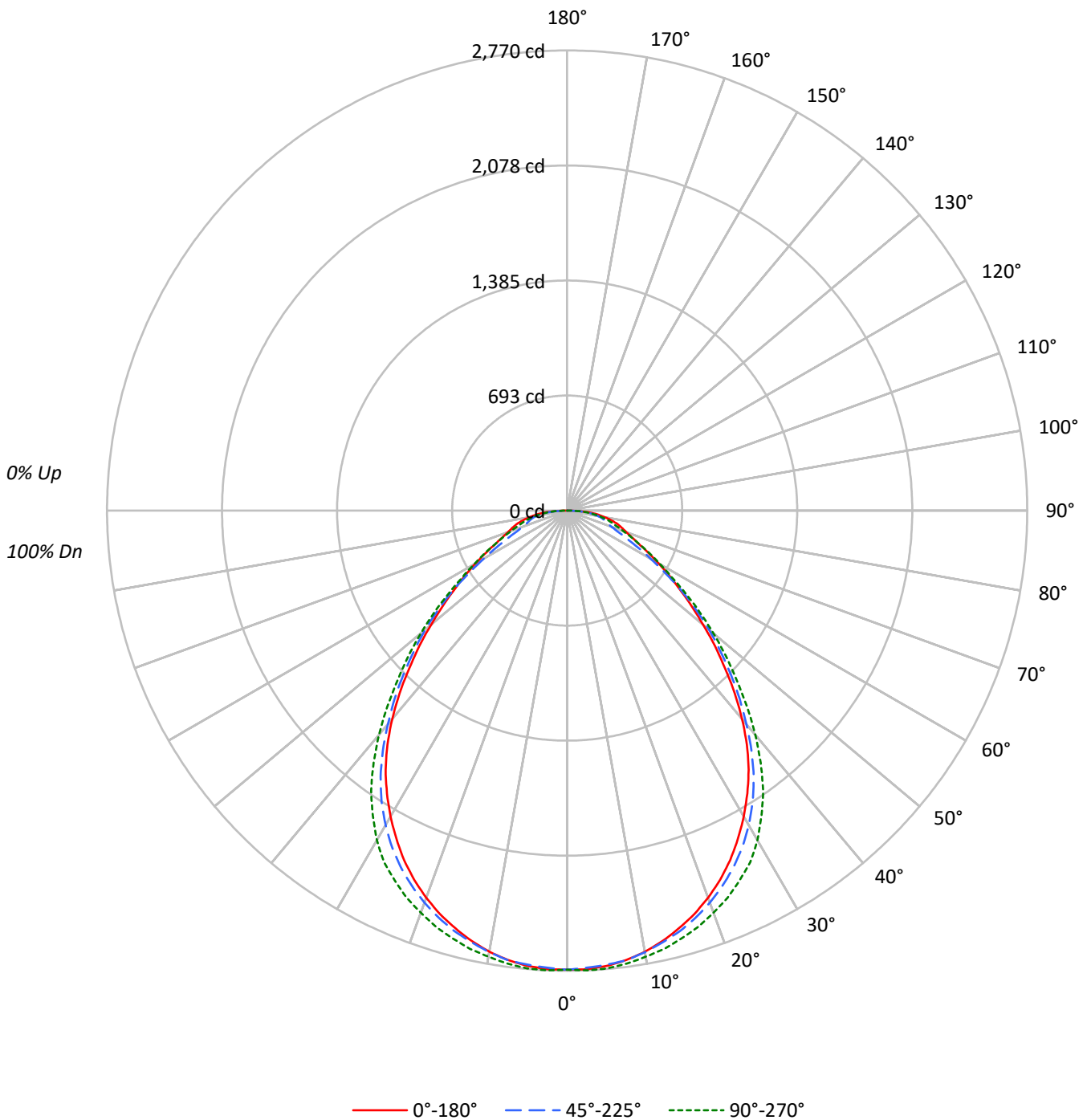
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	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	52	46	41	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	34	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					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7436	7436	7436
5°	7431	7411	7472
10°	7368	7375	7452
15°	7250	7302	7425
20°	7101	7193	7377
25°	6894	7034	7292
30°	6606	6793	7119
35°	6258	6433	6758
40°	5755	5897	6192
45°	5112	5297	5489
50°	4465	4670	4811
55°	3881	3935	4079
60°	3415	3129	3483
65°	3035	2501	3052
70°	2980	2220	2817
75°	3256	2441	2876
80°	3577	2899	3078
85°	4270	3369	3449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	4.4
10°-20°	740.6	12.4
20°-30°	1093.4	18.2
30°-40°	1223.4	20.4
40°-50°	1074.4	17.9
50°-60°	760.2	12.7
60°-70°	442.5	7.4
70°-80°	275.8	4.6
80°-90°	123.4	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°	2095.2	34.9
0°-40°	3318.6	55.4
0°-60°	5153.2	86.0
0°-90°	5994.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5994.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2763	2763	2763	2763	2763	
5°	2751	2744	2744	2758	2766	261
15°	2602	2608	2621	2649	2665	733
25°	2322	2331	2369	2425	2456	1066
35°	1905	1914	1958	2017	2057	1185
45°	1343	1359	1392	1426	1442	1039
55°	827	844	839	854	870	748
65°	477	439	393	428	479	483
75°	313	270	235	240	277	327
85°	138	144	109	106	112	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2763.3	2763.3	2763.3	2763.3	2763.3
2.5°	2763.3	2757.8	2754.8	2764.8	2770.4
5°	2750.8	2743.7	2743.7	2757.8	2766.3
7.5°	2728.6	2721.6	2729.7	2742.3	2750.8
10°	2696.4	2693.4	2699.0	2716.0	2727.1
12.5°	2654.2	2655.7	2661.3	2687.9	2702.0
15°	2602.5	2608.0	2621.0	2648.7	2665.3
17.5°	2546.6	2551.1	2570.3	2602.5	2626.5
20°	2479.7	2487.8	2511.9	2552.2	2576.2
22.5°	2405.4	2415.3	2444.6	2493.7	2523.0
25°	2321.8	2331.4	2369.1	2425.0	2456.0
27.5°	2226.7	2241.9	2284.0	2345.4	2387.2
30°	2126.1	2138.7	2186.0	2255.9	2291.1
32.5°	2018.5	2033.7	2078.4	2145.4	2176.4
35°	1905.0	1913.5	1958.2	2017.0	2057.3
37.5°	1776.6	1780.7	1822.5	1877.2	1913.5
40°	1638.3	1640.9	1678.6	1730.4	1762.6
42.5°	1494.1	1495.6	1536.3	1575.1	1603.2
45°	1343.2	1358.7	1392.0	1425.7	1442.3
47.5°	1207.5	1218.9	1249.6	1278.9	1294.4
50°	1066.6	1094.3	1115.4	1130.9	1149.1
52.5°	944.9	968.6	974.1	992.2	1007.8
55°	827.3	844.3	838.8	853.9	869.5
57.5°	728.2	719.7	701.6	728.2	747.8
60°	634.6	612.1	581.4	618.0	647.2
62.5°	550.7	514.4	476.7	512.9	561.8
65°	476.7	439.0	392.8	427.9	479.3
67.5°	420.9	381.7	326.9	362.1	413.8
70°	378.7	338.4	282.2	311.8	358.0
72.5°	345.4	301.8	253.0	272.6	311.8
75°	313.2	269.6	234.8	240.4	276.6
77.5°	275.5	243.3	215.2	212.3	240.4
80°	230.8	220.8	187.1	183.1	198.6
82.5°	190.1	186.0	153.8	149.4	155.3
85°	138.3	143.9	109.1	106.1	111.7
87.5°	72.9	79.5	57.3	60.3	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)