

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: P476081

Luminaire Tested: **22GR-LD5-60-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476081
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-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

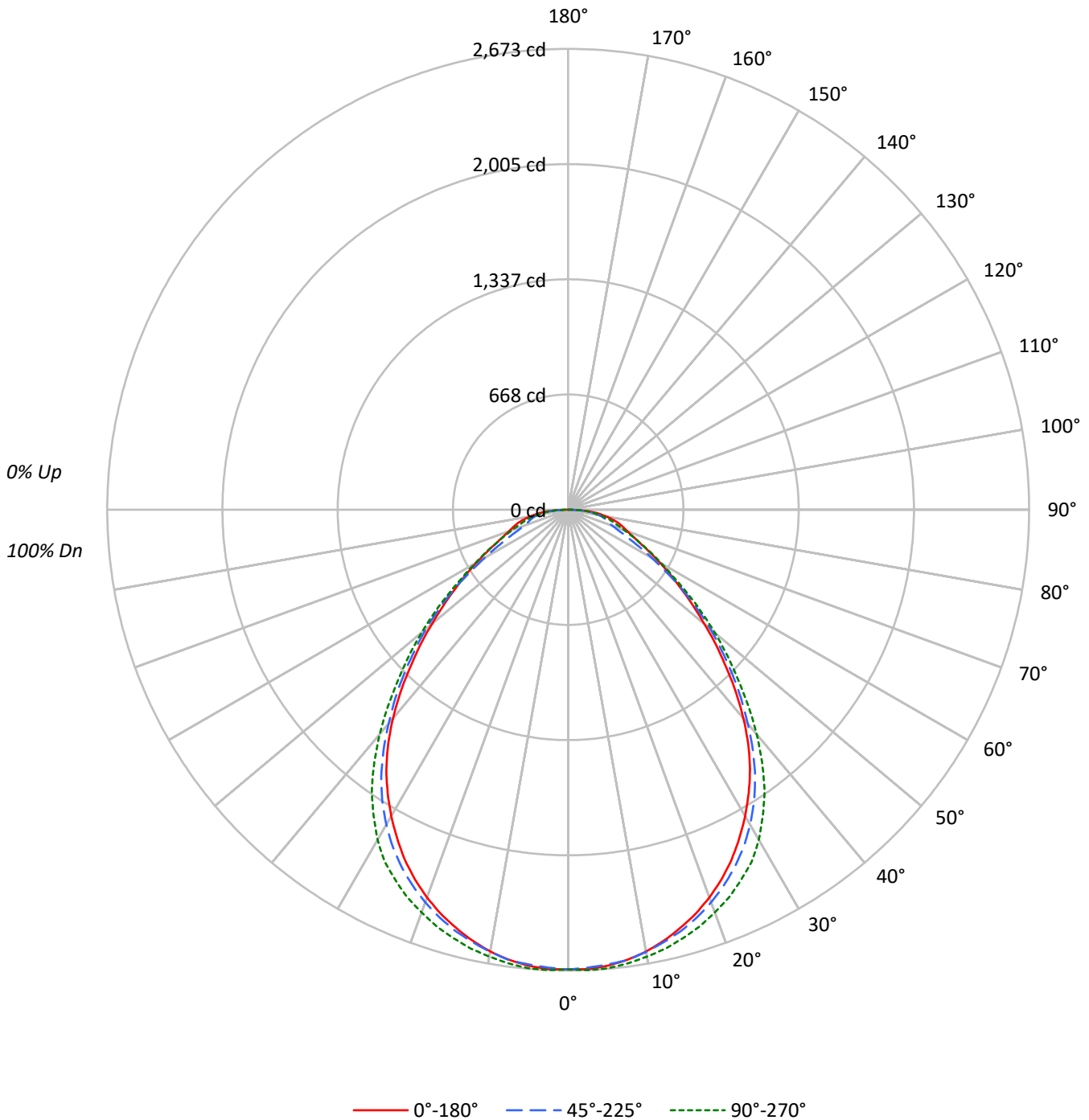
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	7176	7176	7176
5°	7170	7152	7211
10°	7110	7117	7191
15°	6997	7046	7166
20°	6852	6941	7119
25°	6652	6788	7037
30°	6375	6555	6870
35°	6039	6208	6522
40°	5554	5690	5975
45°	4933	5112	5297
50°	4309	4506	4642
55°	3745	3797	3936
60°	3296	3019	3361
65°	2929	2413	2945
70°	2875	2142	2718
75°	3143	2356	2775
80°	3451	2799	2969
85°	4122	3251	3328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	4.4
10°-20°	714.7	12.4
20°-30°	1055.1	18.2
30°-40°	1180.6	20.4
40°-50°	1036.8	17.9
50°-60°	733.6	12.7
60°-70°	427.0	7.4
70°-80°	266.1	4.6
80°-90°	119.1	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°	2021.8	34.9
0°-40°	3202.4	55.4
0°-60°	4972.8	86.0
0°-90°	5785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2667	2667	2667	2667	2667	
5°	2654	2648	2648	2661	2670	252
15°	2511	2517	2529	2556	2572	708
25°	2240	2250	2286	2340	2370	1029
35°	1838	1846	1890	1946	1985	1143
45°	1296	1311	1343	1376	1392	1003
55°	798	815	809	824	839	722
65°	460	424	379	413	462	467
75°	302	260	227	232	267	316
85°	134	139	105	102	108	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2666.6	2666.6	2666.6	2666.6	2666.6
2.5°	2666.6	2661.3	2658.4	2668.1	2673.4
5°	2654.5	2647.7	2647.7	2661.3	2669.5
7.5°	2633.1	2626.3	2634.1	2646.3	2654.5
10°	2602.0	2599.2	2604.5	2620.9	2631.7
12.5°	2561.3	2562.8	2568.1	2593.8	2607.4
15°	2511.4	2516.7	2529.2	2556.0	2572.1
17.5°	2457.5	2461.8	2480.3	2511.4	2534.6
20°	2392.9	2400.7	2423.9	2462.8	2486.0
22.5°	2321.2	2330.8	2359.0	2406.5	2434.7
25°	2240.5	2249.8	2286.2	2340.1	2370.1
27.5°	2148.8	2163.4	2204.1	2263.3	2303.7
30°	2051.7	2063.9	2109.5	2177.0	2210.9
32.5°	1947.9	1962.5	2005.7	2070.3	2100.3
35°	1838.3	1846.5	1889.7	1946.4	1985.3
37.5°	1714.5	1718.4	1758.7	1811.5	1846.5
40°	1581.0	1583.5	1619.9	1669.9	1700.9
42.5°	1441.8	1443.2	1482.5	1520.0	1547.1
45°	1296.2	1311.2	1343.3	1375.8	1391.8
47.5°	1165.2	1176.3	1205.9	1234.1	1249.1
50°	1029.2	1056.0	1076.4	1091.3	1108.8
52.5°	911.8	934.7	940.0	957.5	972.5
55°	798.3	814.8	809.4	824.0	839.0
57.5°	702.7	694.5	677.0	702.7	721.6
60°	612.4	590.6	561.0	596.4	624.5
62.5°	531.4	496.4	460.0	495.0	542.1
65°	460.0	423.6	379.0	412.9	462.5
67.5°	406.1	368.3	315.5	349.4	399.4
70°	365.4	326.5	272.3	300.9	345.5
72.5°	333.3	291.2	244.1	263.0	300.9
75°	302.3	260.2	226.6	232.0	266.9
77.5°	265.9	234.8	207.7	204.9	232.0
80°	222.7	213.1	180.6	176.7	191.6
82.5°	183.4	179.5	148.5	144.2	149.9
85°	133.5	138.8	105.3	102.4	107.8
87.5°	70.3	76.7	55.3	58.2	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)