

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: P476095

Luminaire Tested: **22GR-LD5-85-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476095
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-85-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: 8580.1 lumens
Efficiency: N/A
Efficacy: 132.4 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

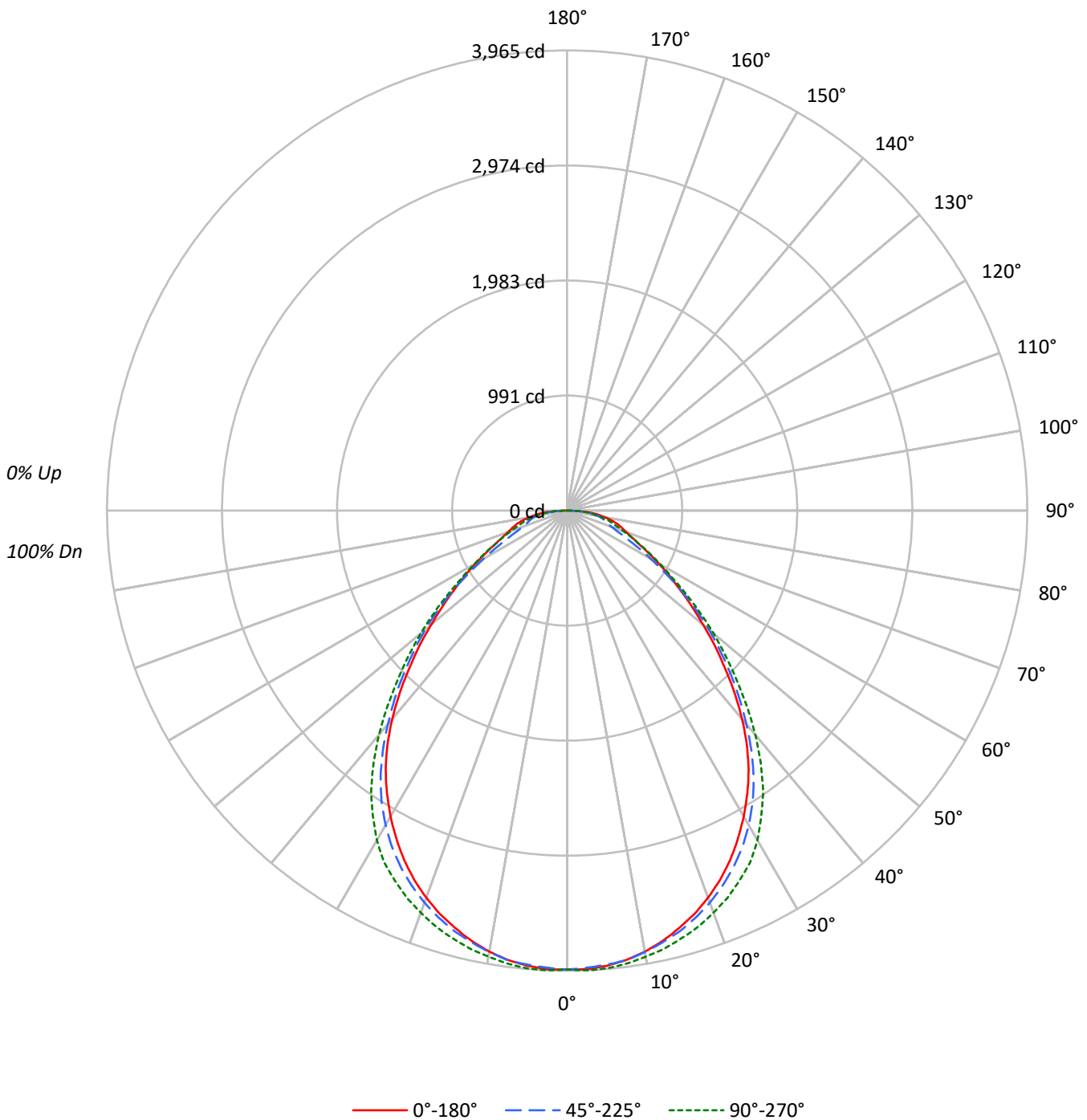
Input Watts (W): 64.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10643	10643	10643
5°	10635	10608	10695
10°	10545	10555	10665
15°	10377	10451	10628
20°	10163	10295	10559
25°	9867	10068	10437
30°	9455	9722	10189
35°	8957	9207	9673
40°	8237	8440	8862
45°	7316	7582	7856
50°	6391	6683	6885
55°	5555	5632	5838
60°	4888	4478	4985
65°	4344	3579	4368
70°	4264	3178	4032
75°	4661	3494	4116
80°	5119	4150	4404
85°	6113	4820	4937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	4.4
10°-20°	1060.0	12.4
20°-30°	1564.9	18.2
30°-40°	1751.1	20.4
40°-50°	1537.7	17.9
50°-60°	1088.0	12.7
60°-70°	633.4	7.4
70°-80°	394.7	4.6
80°-90°	176.6	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°	2998.7	34.9
0°-40°	4749.8	55.4
0°-60°	7375.5	86.0
0°-90°	8580.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8580.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3955	3955	3955	3955	3955	
5°	3937	3927	3927	3947	3959	373
15°	3725	3733	3751	3791	3815	1050
25°	3323	3337	3391	3471	3515	1526
35°	2726	2739	2803	2887	2945	1696
45°	1922	1945	1992	2040	2064	1487
55°	1184	1208	1200	1222	1244	1070
65°	682	628	562	612	686	692
75°	448	386	336	344	396	468
85°	198	206	156	152	160	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3955.0	3955.0	3955.0	3955.0	3955.0
2.5°	3955.0	3947.1	3942.9	3957.2	3965.1
5°	3937.0	3927.0	3927.0	3947.1	3959.3
7.5°	3905.3	3895.2	3906.9	3924.9	3937.0
10°	3859.2	3855.0	3862.9	3887.3	3903.2
12.5°	3798.9	3801.0	3808.9	3847.1	3867.2
15°	3724.8	3732.7	3751.3	3790.9	3814.8
17.5°	3644.9	3651.2	3678.7	3724.8	3759.2
20°	3549.1	3560.7	3595.1	3652.8	3687.2
22.5°	3442.7	3457.0	3498.8	3569.2	3611.0
25°	3323.0	3336.8	3390.8	3470.7	3515.2
27.5°	3187.0	3208.7	3269.0	3356.9	3416.7
30°	3043.0	3061.0	3128.8	3228.8	3279.1
32.5°	2889.0	2910.7	2974.7	3070.6	3115.0
35°	2726.5	2738.7	2802.7	2886.9	2944.6
37.5°	2542.8	2548.6	2608.5	2686.8	2738.7
40°	2344.9	2348.6	2402.6	2476.7	2522.7
42.5°	2138.4	2140.5	2198.8	2254.3	2294.6
45°	1922.5	1944.7	1992.3	2040.5	2064.3
47.5°	1728.2	1744.6	1788.6	1830.4	1852.6
50°	1526.5	1566.2	1596.4	1618.6	1644.6
52.5°	1352.4	1386.3	1394.2	1420.2	1442.4
55°	1184.1	1208.4	1200.5	1222.2	1244.4
57.5°	1042.2	1030.0	1004.1	1042.2	1070.3
60°	908.3	876.0	832.1	884.5	926.3
62.5°	788.1	736.3	682.3	734.2	804.0
65°	682.3	628.3	562.1	612.4	686.0
67.5°	602.4	546.3	467.9	518.2	592.3
70°	542.0	484.3	403.9	446.2	512.4
72.5°	494.4	431.9	362.1	390.1	446.2
75°	448.3	385.9	336.1	344.1	395.9
77.5°	394.3	348.3	308.1	303.8	344.1
80°	330.3	316.0	267.8	262.0	284.2
82.5°	272.1	266.2	220.2	213.8	222.3
85°	198.0	205.9	156.1	151.9	159.9
87.5°	104.3	113.8	82.0	86.3	87.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)