

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: P476107

Luminaire Tested: **22GR-LD5-85-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476107  
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-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8743.1 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

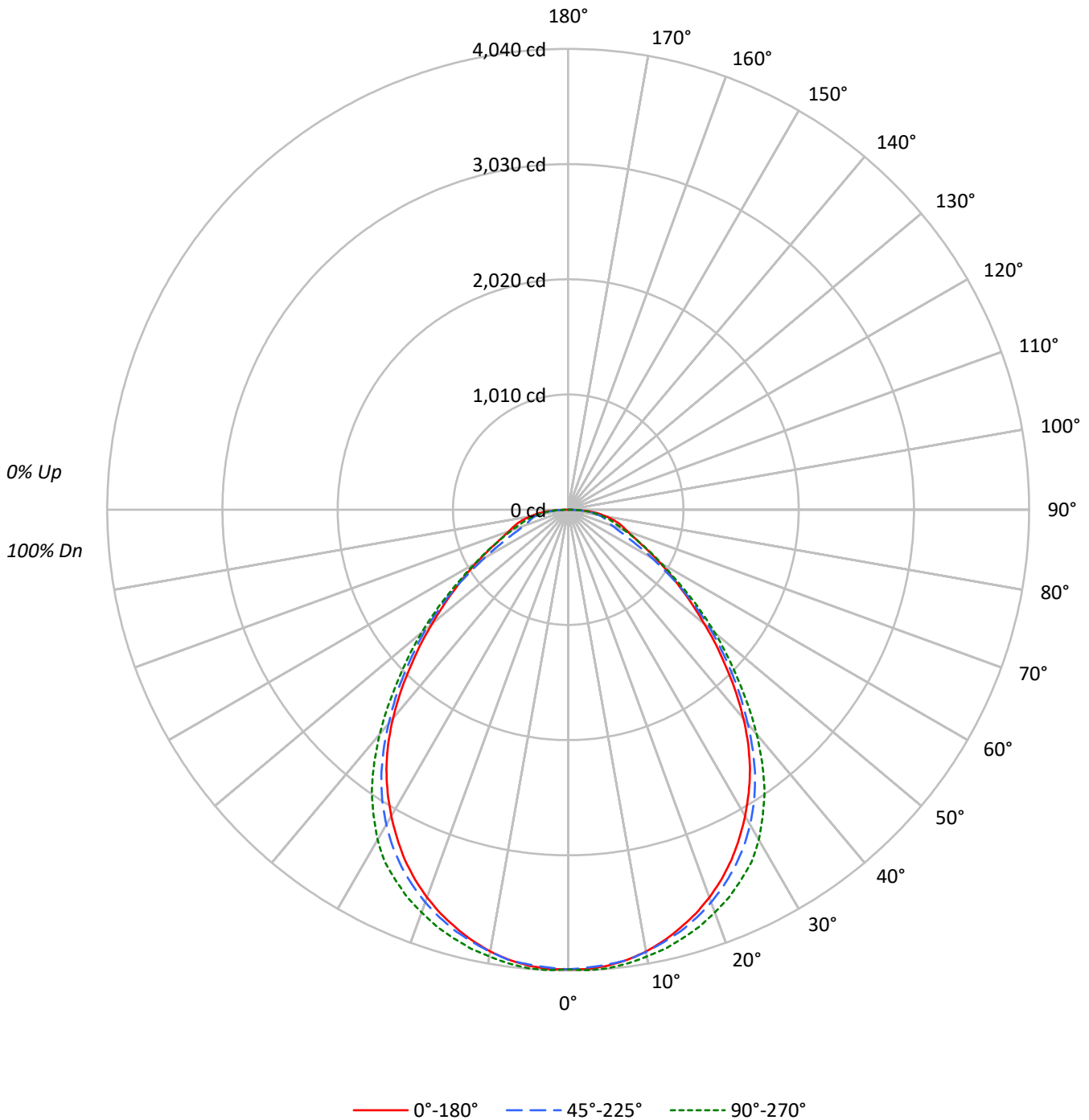
Input Watts (W): 64.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10845	10845	10845
5°	10837	10809	10898
10°	10746	10756	10868
15°	10574	10649	10829
20°	10356	10491	10760
25°	10054	10259	10636
30°	9635	9907	10383
35°	9127	9382	9857
40°	8394	8600	9030
45°	7455	7726	8005
50°	6512	6810	7016
55°	5661	5739	5949
60°	4982	4563	5080
65°	4427	3647	4451
70°	4345	3238	4108
75°	4749	3561	4194
80°	5216	4229	4488
85°	6228	4912	5030



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.9	4.4
10°-20°	1080.2	12.4
20°-30°	1594.6	18.2
30°-40°	1784.3	20.4
40°-50°	1566.9	17.9
50°-60°	1108.7	12.7
60°-70°	645.4	7.4
70°-80°	402.2	4.6
80°-90°	179.9	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°	3055.7	34.9
0°-40°	4840.0	55.4
0°-60°	7515.6	86.0
0°-90°	8743.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8743.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4030	4030	4030	4030	4030	
5°	4012	4002	4002	4022	4034	380
15°	3796	3804	3822	3863	3887	1069
25°	3386	3400	3455	3537	3582	1555
35°	2778	2791	2856	2942	3000	1728
45°	1959	1982	2030	2079	2104	1515
55°	1207	1231	1223	1245	1268	1091
65°	695	640	573	624	699	705
75°	457	393	342	351	403	477
85°	202	210	159	155	163	205
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4030.2	4030.2	4030.2	4030.2	4030.2
2.5°	4030.2	4022.1	4017.8	4032.3	4040.4
5°	4011.8	4001.6	4001.6	4022.1	4034.5
7.5°	3979.5	3969.2	3981.1	3999.4	4011.8
10°	3932.6	3928.2	3936.3	3961.1	3977.3
12.5°	3871.1	3873.2	3881.3	3920.2	3940.6
15°	3795.6	3803.6	3822.5	3863.0	3887.2
17.5°	3714.1	3720.6	3748.6	3795.6	3830.6
20°	3616.5	3628.4	3663.4	3722.2	3757.3
22.5°	3508.1	3522.6	3565.2	3637.0	3679.6
25°	3386.2	3400.2	3455.2	3536.7	3582.0
27.5°	3247.6	3269.7	3331.2	3420.7	3481.6
30°	3100.8	3119.2	3188.2	3290.2	3341.4
32.5°	2943.9	2966.0	3031.3	3128.9	3174.2
35°	2778.3	2790.7	2856.0	2941.7	3000.5
37.5°	2591.1	2597.1	2658.0	2737.8	2790.7
40°	2389.4	2393.2	2448.2	2523.7	2570.6
42.5°	2179.1	2181.2	2240.5	2297.2	2338.2
45°	1959.0	1981.6	2030.2	2079.3	2103.5
47.5°	1761.0	1777.8	1822.5	1865.1	1887.8
50°	1555.5	1596.0	1626.7	1649.4	1675.8
52.5°	1378.1	1412.6	1420.7	1447.1	1469.8
55°	1206.6	1231.4	1223.3	1245.4	1268.1
57.5°	1062.0	1049.6	1023.2	1062.0	1090.6
60°	925.6	892.7	847.9	901.3	943.9
62.5°	803.1	750.3	695.2	748.1	819.3
65°	695.2	640.2	572.8	624.1	699.0
67.5°	613.8	556.6	476.8	528.0	603.6
70°	552.3	493.5	411.5	454.7	522.1
72.5°	503.8	440.1	368.9	397.5	454.7
75°	456.8	393.2	342.5	350.6	403.4
77.5°	401.8	354.9	313.9	309.6	350.6
80°	336.6	322.0	272.9	267.0	289.6
82.5°	277.2	271.3	224.4	217.9	226.5
85°	201.7	209.8	159.1	154.8	162.9
87.5°	106.3	116.0	83.6	87.9	89.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)