

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 108P158

Luminaire Tested: **2GC-432A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P158
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-432A125
Description: 2 X 4 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Four - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic L.O.B.F. = 89.5

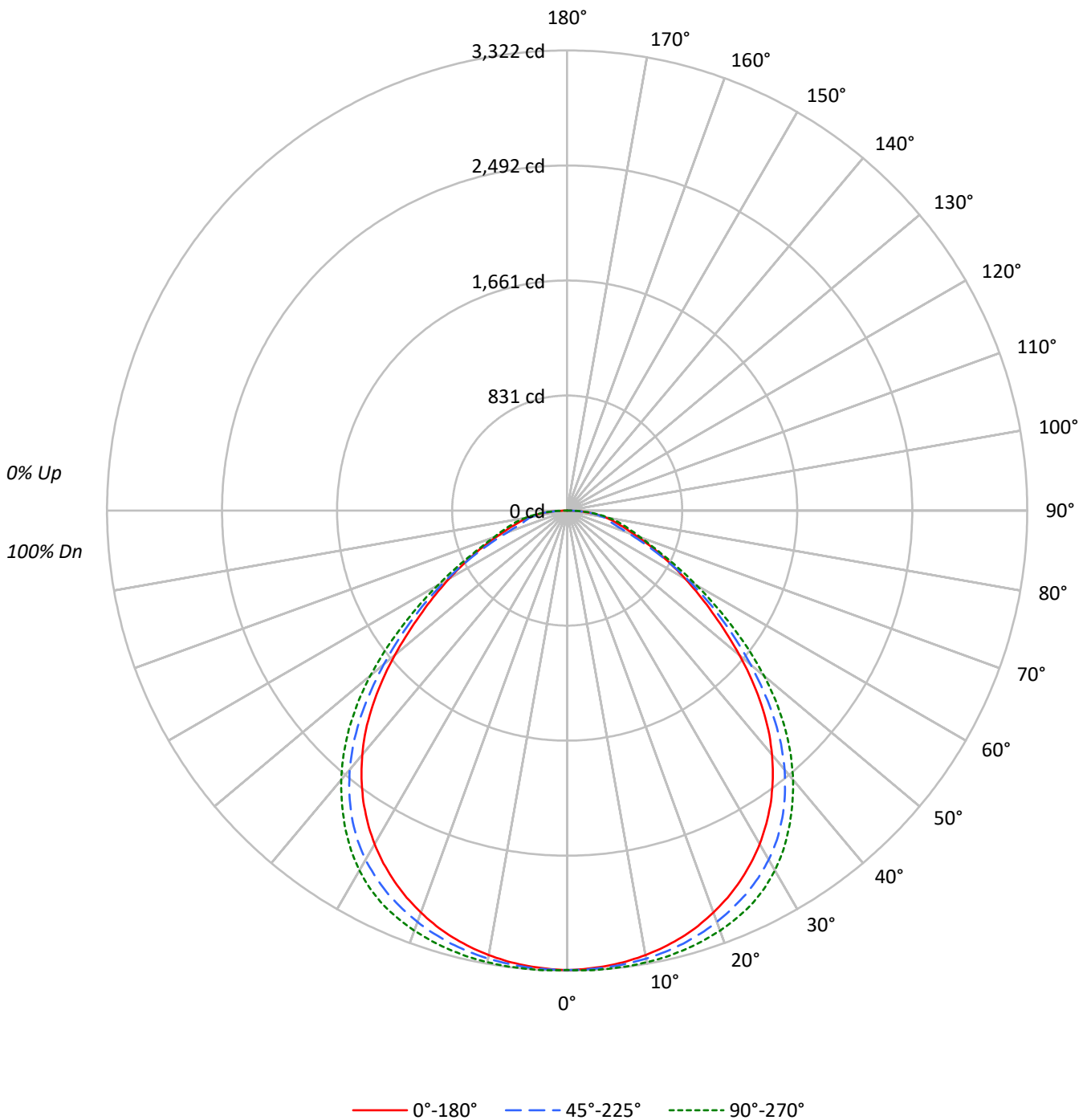
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8452.1 lumens
Efficiency: 75.5%
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.36
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 110.7
Input Voltage (V): NR
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

TEST NUMBER: 108P158
CATALOG NUMBER: 2GC-432A125

Luminous Intensity Polar Plot





TEST NUMBER: 108P158

CATALOG NUMBER: 2GC-432A125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75						75													
1	83	79	76	74	81	78	75	72	74	72	70	71	70	68	69	67	66	64						64													
2	76	70	65	61	74	69	64	60	66	62	59	63	60	58	61	59	56	55						55													
3	69	62	56	52	68	61	55	51	59	54	50	57	53	49	55	51	49	47						47													
4	64	55	49	44	62	54	49	44	53	47	43	51	46	43	49	45	42	41						41													
5	59	50	43	38	57	49	43	38	47	42	38	46	41	37	45	40	37	36						36													
6	55	45	39	34	53	44	38	34	43	37	33	42	37	33	41	36	33	31						31													
7	51	41	35	30	49	40	34	30	39	34	30	38	33	30	37	33	29	28						28													
8	47	37	31	27	46	37	31	27	36	31	27	35	30	27	34	30	26	25						25													
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	32	27	24	23						23													
10	41	32	26	22	41	31	26	22	31	26	22	30	25	22	29	25	22	20						20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5227	5227	5227
5°	5220	5236	5255
10°	5215	5255	5298
15°	5204	5281	5353
20°	5178	5301	5411
25°	5134	5312	5463
30°	5060	5297	5459
35°	4934	5211	5375
40°	4735	5023	5221
45°	4424	4700	4963
50°	3979	4234	4547
55°	3506	3736	3984
60°	3101	3202	3397
65°	2737	2621	2867
70°	2446	2115	2580
75°	2356	2003	2624
80°	2541	2387	2795
85°	2658	2784	2983



TEST NUMBER: 108P158

CATALOG NUMBER: 2GC-432A125

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	315.1	3.7	2.8	0°	3317	3317	3317	3317	3317	
10°-20°	913.8	10.8	8.2	5°	3300	3300	3310	3318	3322	314
20°-30°	1404.7	16.6	12.5	15°	3190	3201	3237	3268	3281	900
30°-40°	1678.7	19.9	15.0	25°	2953	2984	3055	3114	3142	1360
40°-50°	1615.7	19.1	14.4	35°	2565	2619	2709	2760	2794	1600
50°-60°	1226.0	14.5	10.9	45°	1985	2020	2109	2185	2227	1524
60°-70°	737.7	8.7	6.6	55°	1276	1310	1360	1439	1450	1149
70°-80°	397.9	4.7	3.6	65°	734	713	703	765	769	735
80°-90°	162.4	1.9	1.5	75°	387	352	329	384	431	417
90°-100°	0.0	0.0	0.0	85°	147	146	154	171	165	147
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	10
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	2633.7	31.2	23.5	165°	0	0	0	0	0	0
0°-40°	4312.4	51.0	38.5	175°	0	0	0	0	0	0
0°-60°	7154.1	84.6	63.9	180°	0	0	0	0	0	0
0°-90°	8452.1	100.0	75.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	8452.1	100.0	75.5							



TEST NUMBER: 108P158
 CATALOG NUMBER: 2GC-432A125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3317	3317	3317	3317	3317
2.5°	3311	3310	3315	3321	3322
5°	3300	3300	3310	3318	3322
7.5°	3283	3285	3299	3313	3318
10°	3259	3263	3284	3304	3311
12.5°	3228	3236	3264	3289	3300
15°	3190	3201	3237	3268	3281
17.5°	3144	3159	3202	3241	3258
20°	3088	3109	3161	3207	3227
22.5°	3025	3051	3111	3166	3189
25°	2953	2984	3055	3114	3142
27.5°	2872	2910	2989	3052	3079
30°	2781	2825	2911	2972	3000
32.5°	2678	2729	2819	2874	2905
35°	2565	2619	2709	2760	2794
37.5°	2439	2494	2583	2634	2671
40°	2302	2352	2442	2499	2538
42.5°	2152	2194	2285	2350	2390
45°	1985	2020	2109	2185	2227
47.5°	1808	1839	1919	2002	2048
50°	1623	1657	1727	1813	1855
52.5°	1444	1480	1540	1625	1653
55°	1276	1310	1360	1439	1450
57.5°	1124	1148	1185	1256	1258
60°	984	993	1016	1079	1078
62.5°	854	847	854	914	915
65°	734	713	703	765	769
67.5°	626	594	569	637	651
70°	531	492	459	533	560
72.5°	452	413	379	450	492
75°	387	352	329	384	431
77.5°	335	300	298	331	371
80°	280	252	263	284	308
82.5°	217	202	215	235	240
85°	147	146	154	171	165
87.5°	72	79	82	93	86
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 108P158
CATALOG NUMBER: 2GC-432A125

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)