

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: 108P157

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P157
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-432A
Description: 2 X 4 Recessed Convertible Body Luminaire with a
.095 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

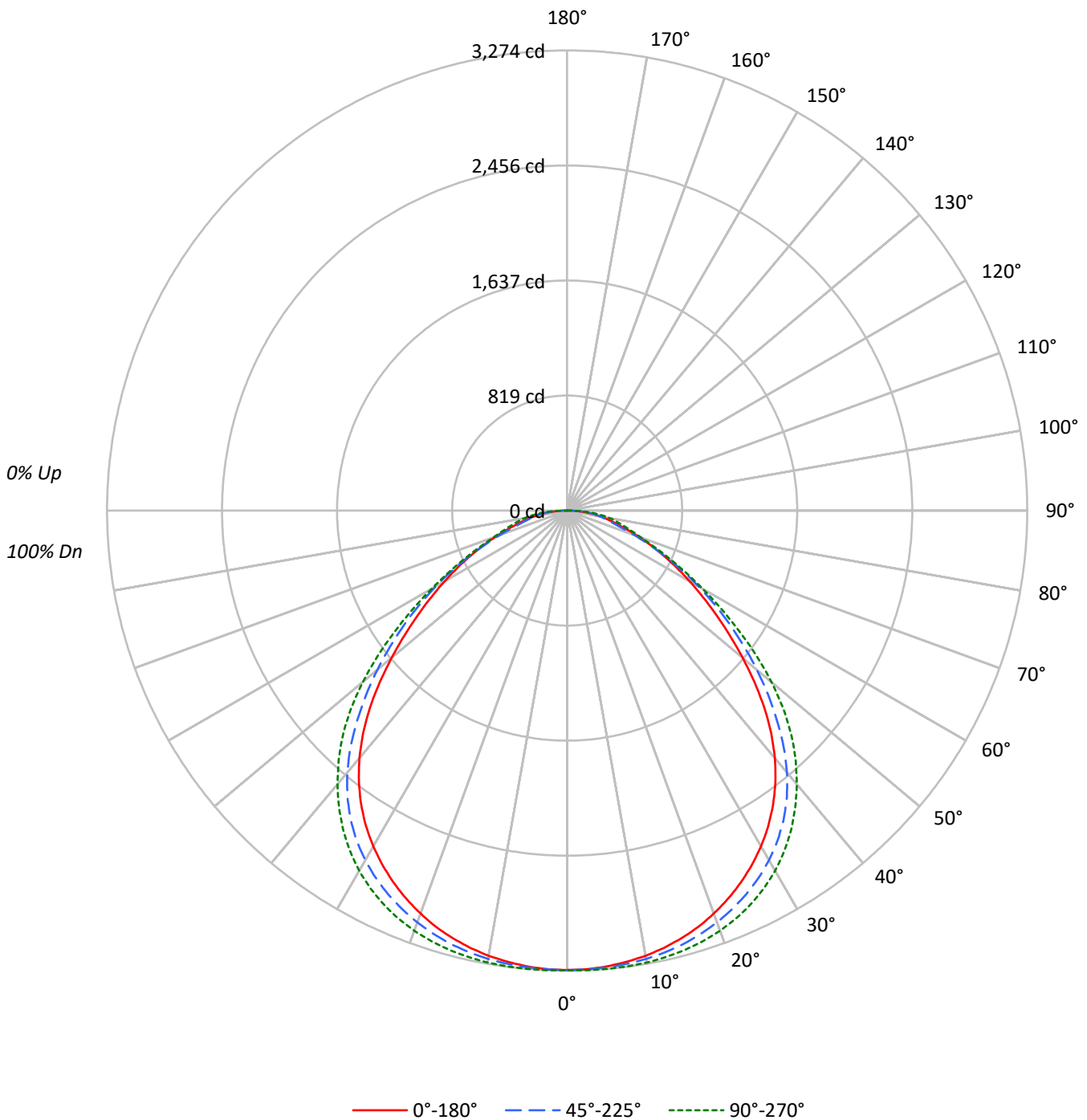
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8474.9 lumens
Efficiency: 75.7%
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.36
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 110.2
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: 108P157
CATALOG NUMBER: 2GC-432A

Luminous Intensity Polar Plot





TEST NUMBER: 108P157
 CATALOG NUMBER: 2GC-432A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76																				
1	83	79	76	74	81	78	75	73	75	72	70	72	70	68	69	67	66	65																				
2	76	70	65	61	74	69	64	60	66	62	59	64	60	58	61	59	56	55																				
3	70	62	56	52	68	61	55	51	59	54	50	57	53	49	55	51	48	47																				
4	64	55	49	44	62	54	48	44	52	47	43	51	46	43	49	45	42	41																				
5	59	50	43	38	57	49	43	38	47	42	38	46	41	37	44	40	37	35																				
6	55	45	38	34	53	44	38	34	43	37	33	42	37	33	40	36	33	31																				
7	51	41	34	30	49	40	34	30	39	34	30	38	33	29	37	33	29	28																				
8	47	37	31	27	46	37	31	27	36	30	26	35	30	26	34	30	26	25																				
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22																				
10	41	32	26	22	40	31	26	22	31	25	22	30	25	22	29	25	22	20																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5151	5151	5151
5°	5150	5160	5177
10°	5146	5183	5224
15°	5137	5209	5279
20°	5116	5229	5334
25°	5079	5239	5374
30°	5020	5228	5384
35°	4915	5165	5342
40°	4729	5007	5229
45°	4421	4707	5027
50°	3996	4322	4655
55°	3558	3882	4104
60°	3170	3401	3505
65°	2811	2864	2964
70°	2469	2327	2571
75°	2210	1997	2521
80°	2178	2151	2795
85°	2278	2604	3182



TEST NUMBER: 108P157
 CATALOG NUMBER: 2GC-432A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	310.6	3.7	2.8	0°	3269	3269	3269	3269	3269	
10°-20°	901.3	10.6	8.0	5°	3256	3253	3262	3270	3273	309
20°-30°	1385.8	16.4	12.4	15°	3149	3158	3193	3222	3236	889
30°-40°	1667.3	19.7	14.9	25°	2921	2947	3013	3067	3091	1345
40°-50°	1624.9	19.2	14.5	35°	2555	2596	2685	2747	2777	1593
50°-60°	1255.5	14.8	11.2	45°	1984	2022	2112	2207	2256	1524
60°-70°	774.6	9.1	6.9	55°	1295	1332	1413	1465	1494	1165
70°-80°	400.6	4.7	3.6	65°	754	750	768	803	795	752
80°-90°	154.2	1.8	1.4	75°	363	357	328	402	414	393
90°-100°	0.0	0.0	0.0	85°	126	134	144	169	176	126
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	8
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°	2597.8	30.7	23.2	165°	0	0	0	0	0	0
0°-40°	4265.1	50.3	38.1	175°	0	0	0	0	0	0
0°-60°	7145.5	84.3	63.8	180°	0	0	0	0	0	0
0°-90°	8474.9	100.0	75.7							
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°	8474.9	100.0	75.7							



TEST NUMBER: 108P157
 CATALOG NUMBER: 2GC-432A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3269	3269	3269	3269	3269
2.5°	3266	3262	3267	3271	3274
5°	3256	3253	3262	3270	3273
7.5°	3238	3238	3253	3265	3270
10°	3216	3218	3239	3256	3265
12.5°	3186	3191	3219	3242	3253
15°	3149	3158	3193	3222	3236
17.5°	3105	3117	3159	3195	3212
20°	3051	3068	3118	3161	3181
22.5°	2990	3012	3069	3119	3141
25°	2921	2947	3013	3067	3091
27.5°	2844	2874	2948	3005	3031
30°	2759	2793	2873	2931	2959
32.5°	2663	2701	2786	2846	2874
35°	2555	2596	2685	2747	2777
37.5°	2435	2475	2568	2635	2666
40°	2299	2338	2434	2506	2542
42.5°	2150	2185	2281	2364	2406
45°	1984	2022	2112	2207	2256
47.5°	1808	1849	1939	2036	2086
50°	1630	1674	1763	1851	1899
52.5°	1457	1500	1586	1657	1699
55°	1295	1332	1413	1465	1494
57.5°	1146	1171	1243	1279	1298
60°	1006	1020	1079	1105	1112
62.5°	876	879	921	945	944
65°	754	750	768	803	795
67.5°	642	630	627	676	664
70°	536	523	505	568	558
72.5°	443	431	403	478	477
75°	363	357	328	402	414
77.5°	296	296	276	338	360
80°	240	241	237	283	308
82.5°	187	188	195	230	248
85°	126	134	144	169	176
87.5°	62	71	80	92	93
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: 108P157
CATALOG NUMBER: 2GC-432A

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)