

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: 108P154

Luminaire Tested: **2GC-332A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P154
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-332A125
Description: 2 X 4 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Three - F32T8/TL835 - 3000 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.4

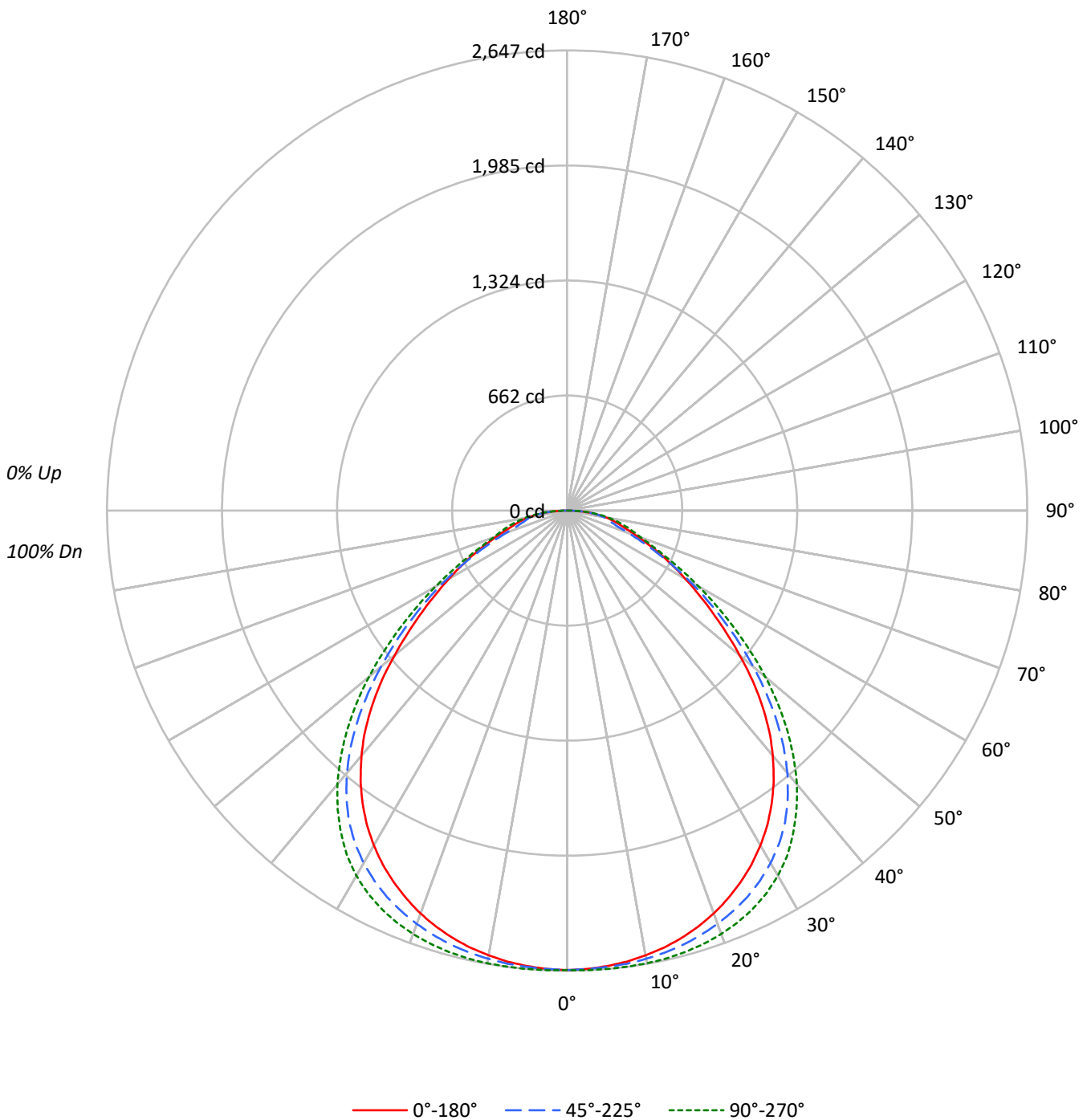
Summary

Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 6791.0 lumens
Efficiency: 75.5%
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.34 / 1.36
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 83.9
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

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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	50	30	10	0	
RCR																						
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75				
1	83	79	76	74	81	78	75	72	74	72	70	71	70	68	69	67	66	64				
2	76	70	65	61	74	69	64	60	66	62	59	63	60	58	61	59	56	55				
3	69	62	56	52	68	61	55	51	59	54	50	57	53	49	55	51	49	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	36				
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	27	35	30	26	34	30	26	25				
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	32	27	24	22				
10	41	32	26	22	41	31	26	22	31	25	22	30	25	22	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4165	4165	4165
5°	4160	4168	4187
10°	4157	4189	4231
15°	4152	4217	4287
20°	4135	4243	4347
25°	4102	4263	4395
30°	4047	4260	4412
35°	3949	4205	4361
40°	3787	4054	4229
45°	3539	3795	3993
50°	3177	3427	3650
55°	2799	3008	3209
60°	2474	2569	2758
65°	2189	2107	2319
70°	1963	1695	2082
75°	1893	1607	2113
80°	2060	1924	2241
85°	2152	2260	2405



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	251.1	3.7	2.8	0°	2643	2643	2643	2643	2643	
10°-20°	730.3	10.8	8.1	5°	2630	2625	2635	2646	2647	250
20°-30°	1126.9	16.6	12.5	15°	2545	2549	2585	2618	2628	718
30°-40°	1352.6	19.9	15.0	25°	2359	2382	2452	2508	2528	1086
40°-50°	1300.8	19.2	14.5	35°	2053	2094	2186	2241	2267	1280
50°-60°	985.4	14.5	10.9	45°	1588	1617	1703	1768	1792	1219
60°-70°	593.2	8.7	6.6	55°	1019	1050	1095	1158	1168	917
70°-80°	319.4	4.7	3.5	65°	587	571	565	619	622	587
80°-90°	131.3	1.9	1.5	75°	311	281	264	308	347	335
90°-100°	0.0	0.0	0.0	85°	119	118	125	138	133	119
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°	2108.2	31.0	23.4	165°	0	0	0	0	0	0
0°-40°	3460.8	51.0	38.5	175°	0	0	0	0	0	0
0°-60°	5747.0	84.6	63.9	180°	0	0	0	0	0	0
0°-90°	6791.0	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°	6791.0	100.0	75.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2643	2643	2643	2643	2643
2.5°	2639	2632	2639	2647	2646
5°	2630	2625	2635	2646	2647
7.5°	2617	2613	2629	2644	2646
10°	2598	2597	2618	2640	2644
12.5°	2575	2576	2604	2631	2638
15°	2545	2549	2585	2618	2628
17.5°	2509	2518	2560	2601	2613
20°	2466	2478	2530	2578	2592
22.5°	2416	2434	2494	2548	2564
25°	2359	2382	2452	2508	2528
27.5°	2296	2323	2401	2461	2482
30°	2224	2257	2341	2402	2425
32.5°	2143	2181	2270	2330	2355
35°	2053	2094	2186	2241	2267
37.5°	1952	1995	2085	2139	2168
40°	1841	1883	1971	2027	2056
42.5°	1721	1756	1843	1904	1929
45°	1588	1617	1703	1768	1792
47.5°	1446	1472	1552	1618	1645
50°	1296	1326	1398	1462	1489
52.5°	1152	1186	1244	1307	1328
55°	1019	1050	1095	1158	1168
57.5°	897	920	951	1013	1017
60°	785	795	815	874	875
62.5°	682	679	685	740	740
65°	587	571	565	619	622
67.5°	501	474	458	514	525
70°	426	393	368	430	452
72.5°	362	330	304	363	396
75°	311	281	264	308	347
77.5°	270	240	239	265	299
80°	227	203	212	229	247
82.5°	176	163	174	190	193
85°	119	118	125	138	133
87.5°	60	63	67	76	69
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



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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)