

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: 108P160

Luminaire Tested: **2GC-332AT125**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 108P160  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-332AT125  
Description: 2 X 4 Recessed Convertible Body Luminaire with a tinted  
Light Source: Three - F032/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F.= 87.6%

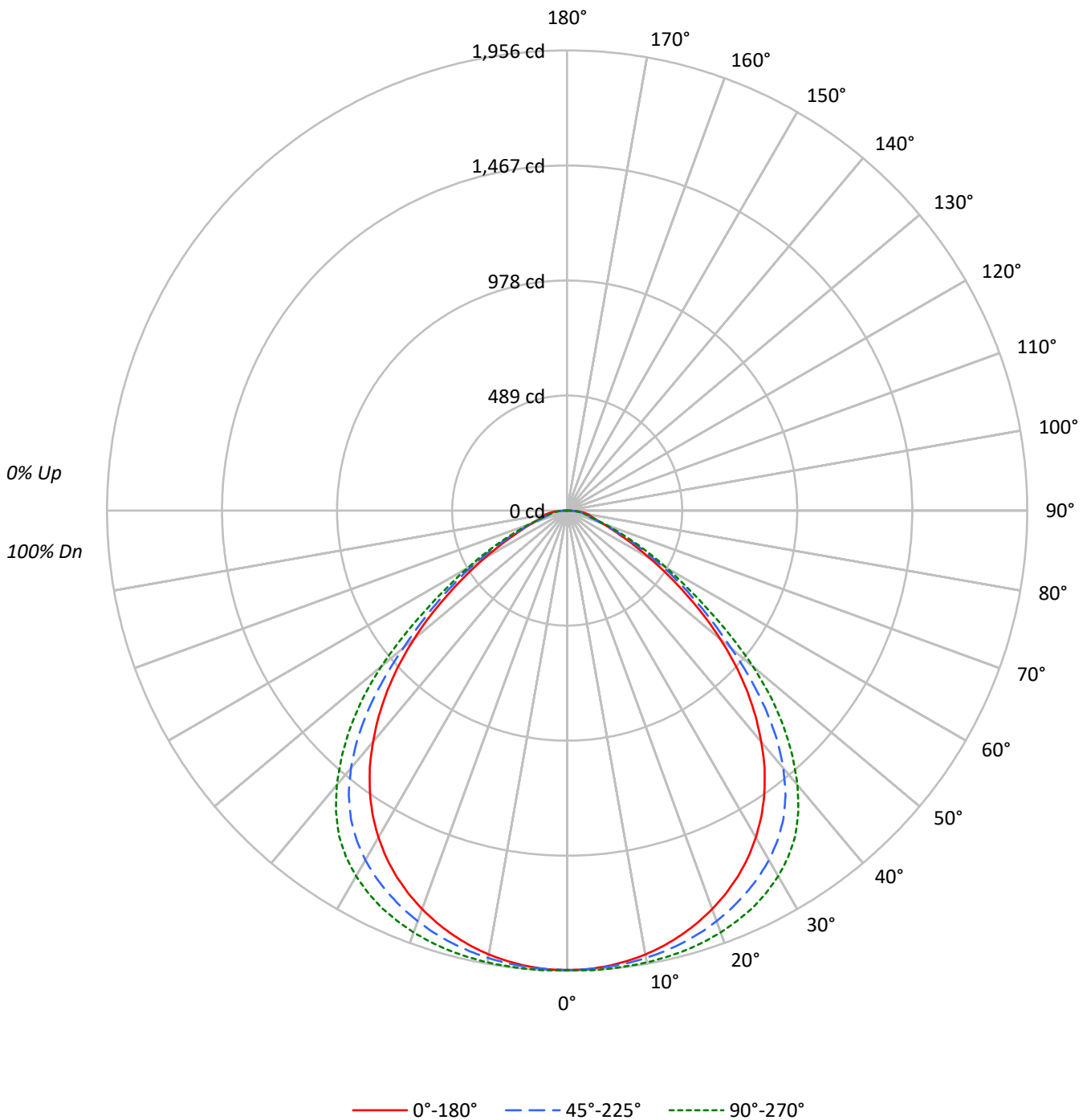
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 4494.5 lumens  
Efficiency: 53.5%  
Efficacy: 54.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.34  
Luminous Opening: Rectangular (W 1.79' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 83  
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: 108P160  
CATALOG NUMBER: 2GC-332AT125

### Luminous Intensity Polar Plot





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 CATALOG NUMBER: 2GC-332AT125

**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	64	64	64	64	62	62	62	62	59	59	59	57	57	57	55	55	55	54
1	59	57	55	53	58	56	54	53	54	52	51	52	50	49	50	49	48	47
2	55	51	48	45	53	50	47	45	48	46	44	46	44	43	45	43	42	41
3	50	45	42	39	49	45	41	38	43	40	38	42	39	37	40	38	36	35
4	47	41	37	33	45	40	36	33	39	35	33	38	35	32	36	34	32	31
5	43	37	32	29	42	36	32	29	35	32	29	34	31	28	33	30	28	27
6	40	33	29	26	39	33	29	26	32	28	26	31	28	25	30	27	25	24
7	37	30	26	23	36	30	26	23	29	26	23	28	25	23	28	25	23	22
8	35	28	24	21	34	28	23	21	27	23	21	26	23	20	26	23	20	19
9	32	26	22	19	32	25	21	19	25	21	19	24	21	19	24	21	18	18
10	30	24	20	17	30	23	20	17	23	19	17	22	19	17	22	19	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3066	3066	3066
5°	3064	3069	3083
10°	3055	3079	3109
15°	3038	3092	3147
20°	3013	3103	3188
25°	2973	3111	3229
30°	2908	3109	3252
35°	2802	3071	3239
40°	2632	2931	3122
45°	2398	2649	2893
50°	2079	2223	2521
55°	1678	1815	1987
60°	1278	1429	1536
65°	940	1048	1133
70°	730	707	780
75°	679	546	594
80°	805	633	606
85°	973	757	739



TEST NUMBER: 108P160  
 CATALOG NUMBER: 2GC-332AT125

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	185.4	4.1	2.2	0°	1953	1953	1953	1953	1953	
10°-20°	537.1	12.0	6.4	5°	1944	1943	1947	1952	1956	185
20°-30°	825.8	18.4	9.8	15°	1869	1878	1902	1925	1936	527
30°-40°	987.8	22.0	11.8	25°	1716	1741	1796	1844	1864	789
40°-50°	911.2	20.3	10.8	35°	1462	1509	1602	1666	1690	910
50°-60°	601.8	13.4	7.2	45°	1080	1118	1193	1264	1303	828
60°-70°	288.5	6.4	3.4	55°	613	625	663	710	726	552
70°-80°	111.1	2.5	1.3	65°	253	267	282	304	305	261
80°-90°	45.7	1.0	0.5	75°	112	100	90	97	98	123
90°-100°	0.0	0.0	0.0	85°	54	53	42	38	41	51
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1548.4	34.4	18.4	165°	0	0	0	0	0	0
0°-40°	2536.2	56.4	30.2	175°	0	0	0	0	0	0
0°-60°	4049.2	90.1	48.2	180°	0	0	0	0	0	0
0°-90°	4494.5	100.0	53.5							
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°	4494.5	100.0	53.5							



TEST NUMBER: 108P160  
 CATALOG NUMBER: 2GC-332AT125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1953	1953	1953	1953	1953
2.5°	1951	1949	1951	1954	1956
5°	1944	1943	1947	1952	1956
7.5°	1932	1933	1941	1949	1953
10°	1916	1918	1931	1944	1950
12.5°	1895	1900	1918	1936	1944
15°	1869	1878	1902	1925	1936
17.5°	1838	1850	1882	1911	1924
20°	1803	1818	1857	1893	1908
22.5°	1762	1782	1829	1871	1888
25°	1716	1741	1796	1844	1864
27.5°	1664	1693	1759	1812	1832
30°	1604	1639	1715	1773	1794
32.5°	1538	1579	1664	1725	1748
35°	1462	1509	1602	1666	1690
37.5°	1378	1427	1525	1591	1614
40°	1284	1333	1430	1499	1523
42.5°	1185	1231	1320	1390	1418
45°	1080	1118	1193	1264	1303
47.5°	968	997	1054	1123	1176
50°	851	868	910	972	1032
52.5°	732	740	781	833	877
55°	613	625	663	710	726
57.5°	504	522	555	595	598
60°	407	428	455	489	489
62.5°	323	343	363	392	391
65°	253	267	282	304	305
67.5°	199	205	212	229	231
70°	159	157	154	169	170
72.5°	131	122	114	125	126
75°	112	100	90	97	98
77.5°	100	87	78	80	81
80°	89	78	70	67	67
82.5°	75	68	59	54	55
85°	54	53	42	38	41
87.5°	29	32	20	20	24
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: 108P160

CATALOG NUMBER: 2GC-332AT125

**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)