

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: 126P123

Luminaire Tested: **2GC-317A125**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 126P123
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-317A125
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Three - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

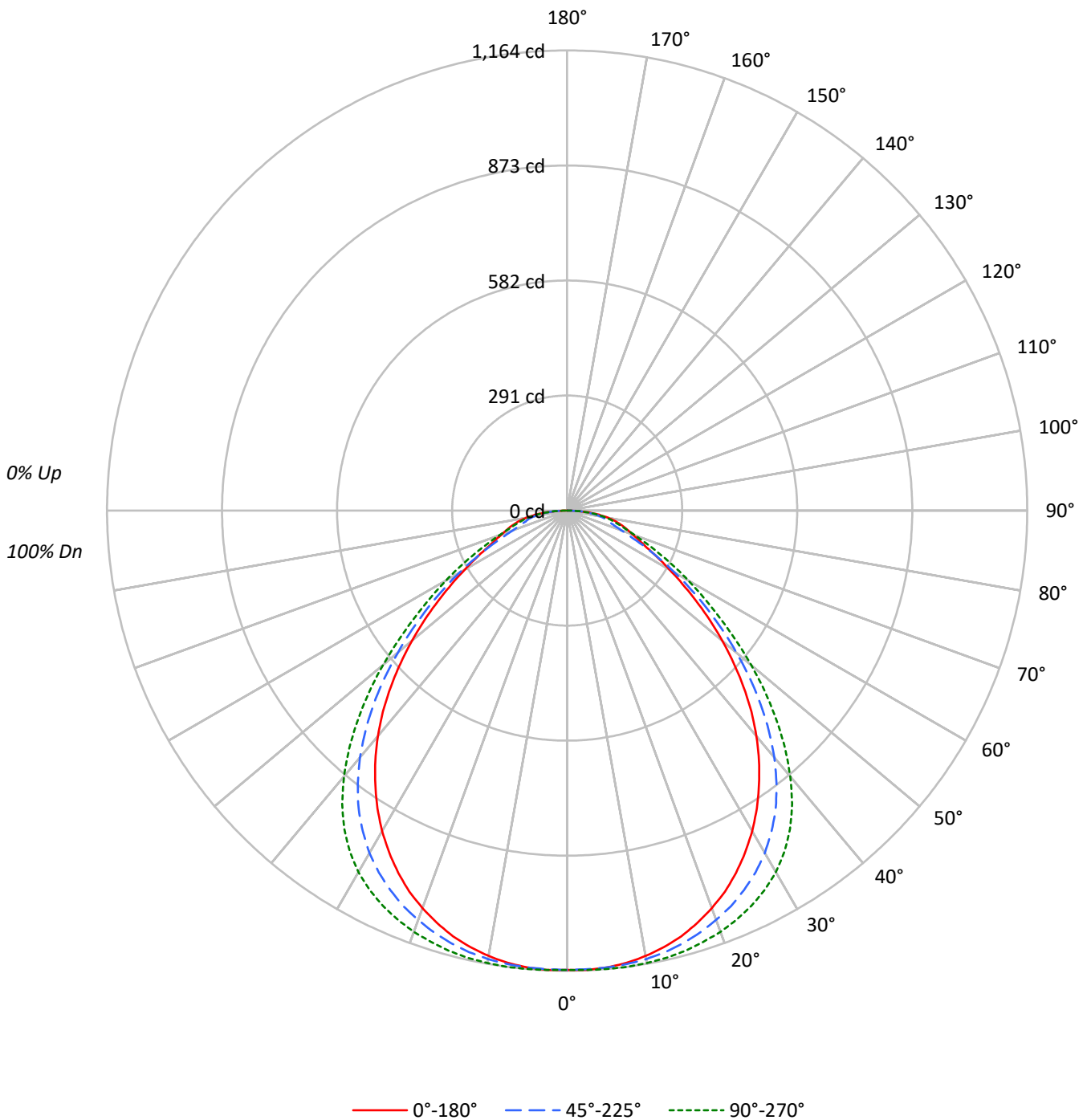
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2825.8 lumens
Efficiency: 72.5%
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.32
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 48.5
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: 126P123
CATALOG NUMBER: 2GC-317A125

Luminous Intensity Polar Plot





TEST NUMBER: 126P123

CATALOG NUMBER: 2GC-317A125

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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	72																			
1	79	76	73	71	78	75	72	70	72	69	67	69	67	65	66	65	63	62																			
2	73	67	63	59	71	66	62	58	64	60	57	61	58	56	59	57	54	53																			
3	67	60	54	50	65	59	54	50	57	52	49	55	51	48	53	50	47	46																			
4	62	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41	40																			
5	57	48	42	38	56	47	42	37	46	41	37	45	40	37	43	39	36	35																			
6	53	44	38	33	52	43	37	33	42	37	33	41	36	32	39	35	32	31																			
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27																			
8	46	36	31	26	45	36	30	26	35	30	26	34	29	26	33	29	26	25																			
9	43	34	28	24	42	33	28	24	32	27	24	32	27	24	31	27	24	22																			
10	40	31	25	22	39	31	25	22	30	25	22	29	25	22	29	24	21	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3863	3863	3863
5°	3871	3871	3884
10°	3862	3889	3922
15°	3837	3899	3968
20°	3785	3898	4012
25°	3708	3884	4046
30°	3593	3838	4053
35°	3433	3733	3989
40°	3233	3537	3810
45°	2966	3253	3521
50°	2648	2891	3144
55°	2307	2498	2718
60°	1988	2094	2354
65°	1754	1707	2014
70°	1711	1409	1769
75°	1837	1413	1734
80°	2010	1646	1857
85°	2098	1831	1945



TEST NUMBER: 126P123

CATALOG NUMBER: 2GC-317A125

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	110.5	3.9	2.8	0°	1162	1162	1162	1162	1162	
10°-20°	319.8	11.3	8.2	5°	1160	1159	1160	1162	1164	110
20°-30°	486.9	17.2	12.5	15°	1115	1119	1133	1147	1153	314
30°-40°	570.6	20.2	14.6	25°	1011	1025	1059	1091	1103	465
40°-50°	530.2	18.8	13.6	35°	846	867	920	964	983	528
50°-60°	389.3	13.8	10.0	45°	631	649	692	728	749	486
60°-70°	232.3	8.2	6.0	55°	398	407	431	461	469	358
70°-80°	132.4	4.7	3.4	65°	223	223	217	241	256	226
80°-90°	53.8	1.9	1.4	75°	143	127	110	121	135	150
90°-100°	0.0	0.0	0.0	85°	55	56	48	49	51	55
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°	917.3	32.5	23.5	165°	0	0	0	0	0	0
0°-40°	1487.8	52.7	38.1	175°	0	0	0	0	0	0
0°-60°	2407.3	85.2	61.7	180°	0	0	0	0	0	0
0°-90°	2825.8	100.0	72.5							
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°	2825.8	100.0	72.5							



TEST NUMBER: 126P123

CATALOG NUMBER: 2GC-317A125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162	1162	1162	1162	1162
2.5°	1163	1161	1161	1162	1163
5°	1160	1159	1160	1162	1164
7.5°	1154	1154	1157	1161	1164
10°	1144	1146	1152	1159	1162
12.5°	1131	1134	1144	1154	1159
15°	1115	1119	1133	1147	1153
17.5°	1094	1101	1119	1137	1144
20°	1070	1079	1102	1124	1134
22.5°	1043	1054	1083	1109	1120
25°	1011	1025	1059	1091	1103
27.5°	975	992	1032	1068	1082
30°	936	954	1000	1040	1056
32.5°	893	912	962	1006	1023
35°	846	867	920	964	983
37.5°	797	817	870	915	935
40°	745	763	815	858	878
42.5°	690	708	755	795	816
45°	631	649	692	728	749
47.5°	572	588	626	659	679
50°	512	526	559	590	608
52.5°	454	466	494	524	536
55°	398	407	431	461	469
57.5°	346	354	371	401	409
60°	299	306	315	344	354
62.5°	258	262	263	290	303
65°	223	223	217	241	256
67.5°	197	191	176	199	216
70°	176	165	145	165	182
72.5°	159	145	124	140	155
75°	143	127	110	121	135
77.5°	126	109	100	103	117
80°	105	94	86	85	97
82.5°	82	76	69	67	75
85°	55	56	48	49	51
87.5°	28	31	26	27	26
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: 126P123
CATALOG NUMBER: 2GC-317A125

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)