

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: 126P121

Luminaire Tested: **2GC-317PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P121
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-317PB2S-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a plastic parabolic louver with cell dimensions of 1.5" x 1.5" x 1.0".
Light Source: Three - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

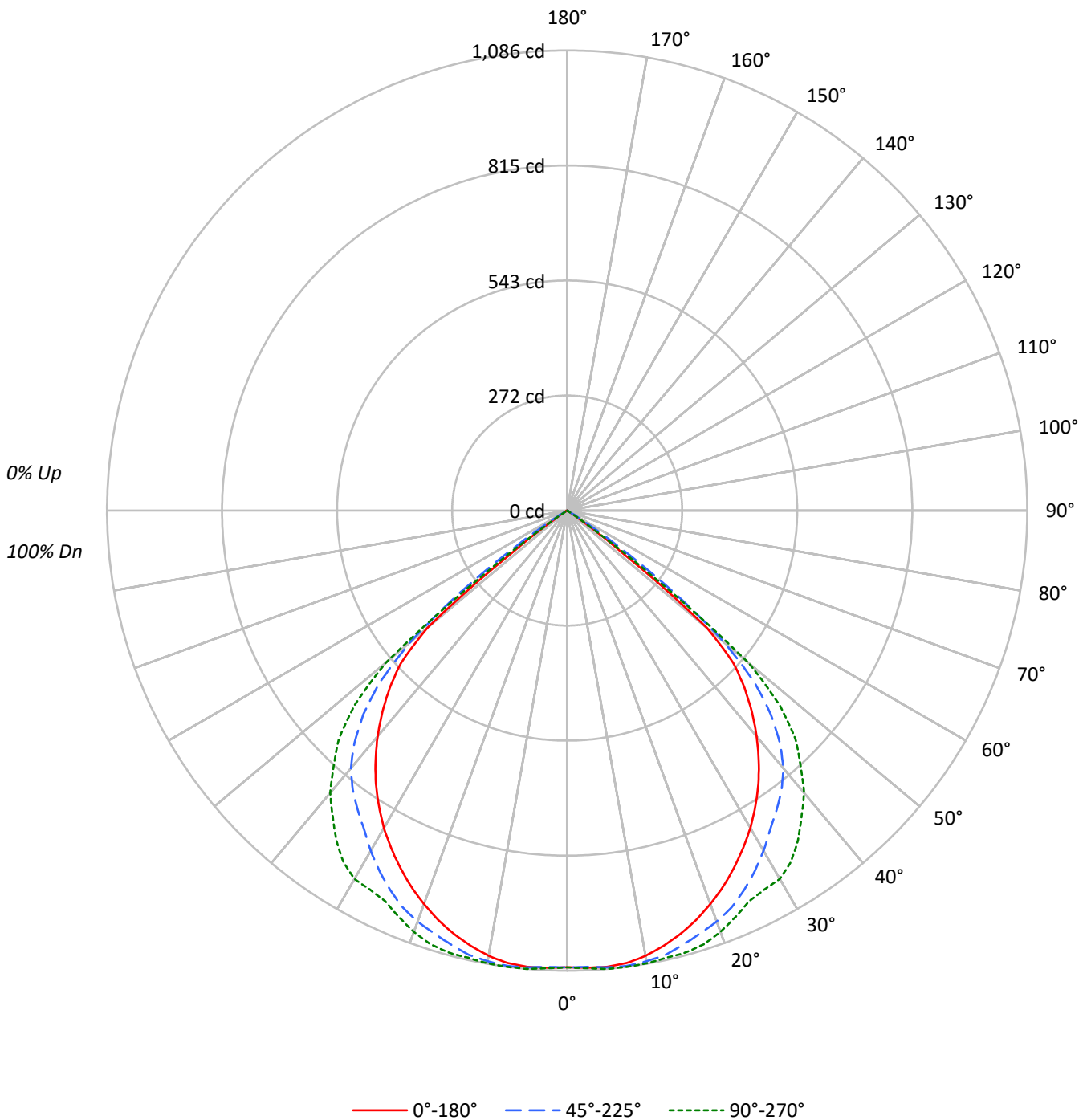
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2046.1 lumens
Efficiency: 52.5%
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.37 / 1.36
Luminous Opening: Rectangular (W 1.71' x L: 1.71' 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: 126P121
CATALOG NUMBER: 2GC-317PB2S-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 126P121

CATALOG NUMBER: 2GC-317PB2S-PAF

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	62	62	62	62	61	61	61	61	58	58	58	56	56	56	54	54	54	52	52	52	52	51	50	50	49	49	48											
1	59	57	56	54	58	56	55	53	54	53	52	52	51	50	50	49	49	48	48	47	46	45	44	43	43	41	39	38										
2	55	52	49	47	54	51	49	47	49	47	46	48	46	45	46	45	44	43	43	41	39	38	38	37	35	34	34	31										
3	51	47	44	42	50	47	44	41	45	43	41	44	42	40	43	41	39	38	37	35	34	32	31	29	28	26	25											
4	48	43	40	37	47	42	39	37	41	38	36	40	38	36	39	37	35	34	32	31	29	28	26	25	23	23	21	21										
5	45	39	36	33	44	39	35	33	38	35	32	37	34	32	36	34	32	31	29	28	26	25	23	22	21	20	19	19										
6	42	36	32	29	41	35	32	29	35	31	29	34	31	29	33	31	29	28	26	25	23	22	21	20	19	18	17	16										
7	39	33	29	26	38	33	29	26	32	29	26	31	28	26	31	28	26	25	23	22	21	20	19	18	17	16	15	14										
8	36	30	27	24	36	30	26	24	29	26	24	29	26	24	28	25	23	22	21	20	19	18	17	16	15	14	13	12										
9	34	28	24	22	34	28	24	22	27	24	22	27	24	21	26	23	21	20	19	18	17	16	15	14	13	12	11	10										
10	32	26	22	20	32	26	22	20	25	22	20	25	22	20	24	22	20	19	18	17	16	15	14	13	12	11	10	9										

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3976	3976	3976
5°	4002	4006	4021
10°	3996	4045	4064
15°	3948	4048	4124
20°	3878	4051	4153
25°	3789	4021	4139
30°	3684	3948	4276
35°	3544	3881	4278
40°	3351	3823	4189
45°	3088	3547	3975
50°	2473	2777	3213
55°	257	945	322
60°	22	52	15
65°	17	17	17
70°	11	11	11
75°	14	14	14
80°	0	21	0
85°	0	0	0



TEST NUMBER: 126P121

CATALOG NUMBER: 2GC-317PB2S-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	103.2	5.0	2.6	0°	1078	1078	1078	1078	1078	
10°-20°	299.1	14.6	7.7	5°	1081	1080	1082	1084	1086	103
20°-30°	453.0	22.1	11.6	15°	1034	1044	1060	1078	1080	291
30°-40°	542.1	26.5	13.9	25°	931	951	988	1014	1017	429
40°-50°	508.9	24.9	13.0	35°	787	816	862	932	950	491
50°-60°	136.8	6.7	3.5	45°	592	625	680	724	762	449
60°-70°	2.0	0.1	0.1	55°	40	84	147	99	50	93
70°-80°	0.9	0.0	0.0	65°	2	2	2	2	2	2
80°-90°	0.0	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	855.4	41.8	21.9	165°	0	0	0	0	0	0
0°-40°	1397.5	68.3	35.8	175°	0	0	0	0	0	0
0°-60°	2043.2	99.9	52.4	180°	0	0	0	0	0	0
0°-90°	2046.1	100.0	52.5							
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°	2046.1	100.0	52.5							



TEST NUMBER: 126P121

CATALOG NUMBER: 2GC-317PB2S-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078	1078	1078	1078	1078
2.5°	1080	1079	1078	1080	1081
5°	1081	1080	1082	1084	1086
7.5°	1077	1079	1084	1086	1086
10°	1067	1073	1080	1086	1085
12.5°	1052	1061	1074	1081	1081
15°	1034	1044	1060	1078	1080
17.5°	1013	1025	1046	1073	1073
20°	988	1003	1032	1058	1058
22.5°	961	979	1014	1039	1038
25°	931	951	988	1014	1017
27.5°	899	921	959	992	1008
30°	865	890	927	977	1004
32.5°	827	855	892	963	983
35°	787	816	862	932	950
37.5°	743	774	831	890	909
40°	696	729	794	843	870
42.5°	646	679	743	792	815
45°	592	625	680	724	762
47.5°	532	552	599	643	681
50°	431	431	484	494	560
52.5°	166	267	321	309	247
55°	40	84	147	99	50
57.5°	5	15	41	16	5
60°	3	3	7	3	2
62.5°	2	2	2	2	2
65°	2	2	2	2	2
67.5°	1	2	2	2	1
70°	1	1	1	1	1
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	0	1	1	1	0
80°	0	0	1	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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: 126P121

CATALOG NUMBER: 2GC-317PB2S-PAF

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)