

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: 126P120

Luminaire Tested: **2GC-317PB1S-PAF**

Issue Date: 3/3/2020



**Test Information**

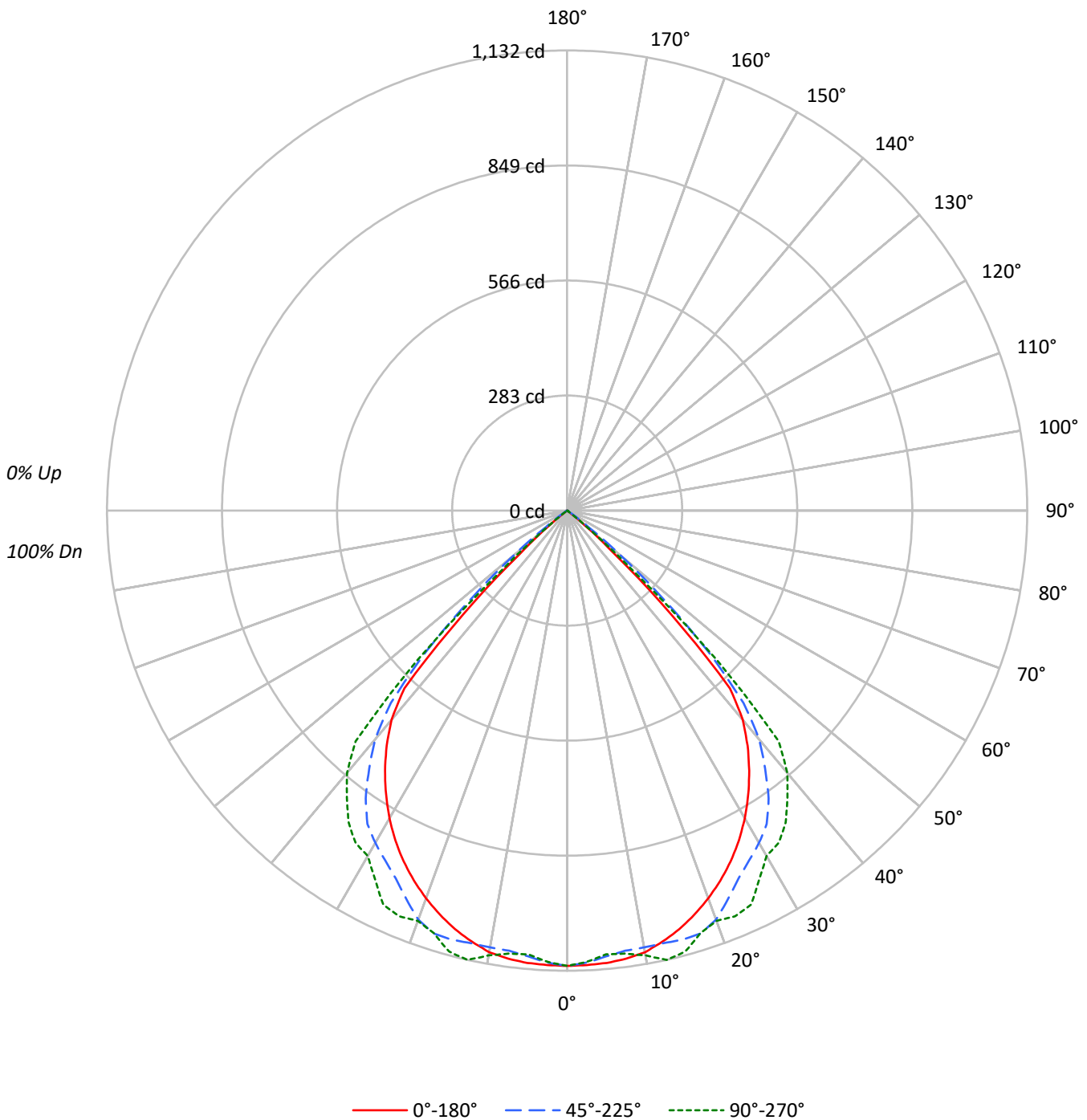
Test Method: LM-41-14  
Report Number: 126P120  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-317PB1S-PAF  
Description: 2 X 2 Recessed Convertible Body Luminaire with a plastic parabolic louver with cell dimensions of 5/8" x 5/8" x 7/16".  
Light Source: Three FO17/35K - 1300 Lumens ea. - 17 Watts  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

**Summary**

Lumens per Lamp: 1300 (3 lamps)  
Luminaire Lumens: 1776.0 lumens  
Efficiency: 45.5%  
Efficacy: 36.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.31 / 1.26  
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 48.4  
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	0
RCR																		
0	54	54	54	54	53	53	53	53	51	51	51	48	48	48	46	46	46	46
1	51	50	49	48	50	49	48	47	47	46	45	45	45	44	44	43	43	42
2	48	46	44	42	47	45	43	42	44	42	41	42	41	40	41	40	39	38
3	45	42	39	37	44	41	39	37	40	38	36	39	37	36	38	37	35	35
4	43	39	36	34	42	38	35	33	37	35	33	36	34	33	35	34	32	31
5	40	36	33	30	39	35	32	30	34	32	30	33	31	30	33	31	29	29
6	37	33	30	27	37	32	29	27	32	29	27	31	29	27	30	28	27	26
7	35	30	27	25	34	30	27	25	29	27	25	29	26	25	28	26	24	24
8	33	28	25	23	32	28	25	23	27	25	23	27	24	23	26	24	22	22
9	31	26	23	21	31	26	23	21	25	23	21	25	22	21	25	22	21	20
10	29	24	21	19	29	24	21	19	24	21	19	23	21	19	23	21	19	18

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

	0°	45°	90°
0°	3745	3745	3745
5°	3749	3695	3678
10°	3745	3704	3772
15°	3690	3783	3887
20°	3611	3811	3821
25°	3512	3682	3947
30°	3374	3645	3787
35°	3188	3527	3825
40°	2933	3208	3675
45°	1716	2317	2478
50°	296	895	395
55°	17	105	17
60°	20	13	20
65°	16	16	16
70°	20	10	20
75°	13	13	13
80°	19	19	19
85°	38	38	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	22.5°	45°	67.5°	90°	Flux
0°-10°	105.2	5.9	2.7	0°	1120	1120	1120	1120	
10°-20°	306.5	17.3	7.9	5°	1117	1111	1101	1097	106
20°-30°	462.6	26.0	11.9	15°	1066	1053	1093	1126	300
30°-40°	534.4	30.1	13.7	25°	952	969	998	1056	437
40°-50°	342.5	19.3	8.8	35°	781	813	864	915	486
50°-60°	21.1	1.2	0.5	45°	363	433	490	524	279
60°-70°	2.0	0.1	0.1	55°	3	4	18	5	10
70°-80°	1.1	0.1	0.0	65°	2	2	2	2	2
80°-90°	0.5	0.0	0.0	75°	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0
0°-30°	874.4	49.2	22.4	165°	0	0	0	0	0
0°-40°	1408.7	79.3	36.1	175°	0	0	0	0	0
0°-60°	1772.4	99.8	45.4	180°	0	0	0	0	0
0°-90°	1776.0	100.0	45.5						
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°	1776.0	100.0	45.5						



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1120	1120	1120	1120	1120
2.5°	1119	1117	1113	1112	1111
5°	1117	1111	1101	1097	1096
7.5°	1112	1101	1092	1097	1099
10°	1103	1088	1091	1103	1111
12.5°	1086	1071	1090	1123	1132
15°	1066	1053	1093	1126	1123
17.5°	1042	1033	1091	1099	1090
20°	1015	1014	1071	1070	1074
22.5°	985	993	1034	1059	1080
25°	952	969	998	1056	1070
27.5°	915	941	970	1031	1023
30°	874	906	944	979	981
32.5°	829	863	914	937	969
35°	781	813	864	915	937
37.5°	729	758	800	868	890
40°	672	691	735	801	842
42.5°	593	585	642	690	770
45°	363	433	490	524	524
47.5°	159	233	317	292	225
50°	57	85	172	102	76
52.5°	11	22	66	27	14
55°	3	4	18	5	3
57.5°	3	3	5	3	3
60°	3	3	2	3	3
62.5°	2	2	2	2	2
65°	2	2	2	2	2
67.5°	2	2	2	2	2
70°	2	2	1	1	2
72.5°	1	1	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	0
85°	1	1	1	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



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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)