

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: 214P103

Luminaire Tested: **2GCASF-317A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-317A
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Three - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 89.7

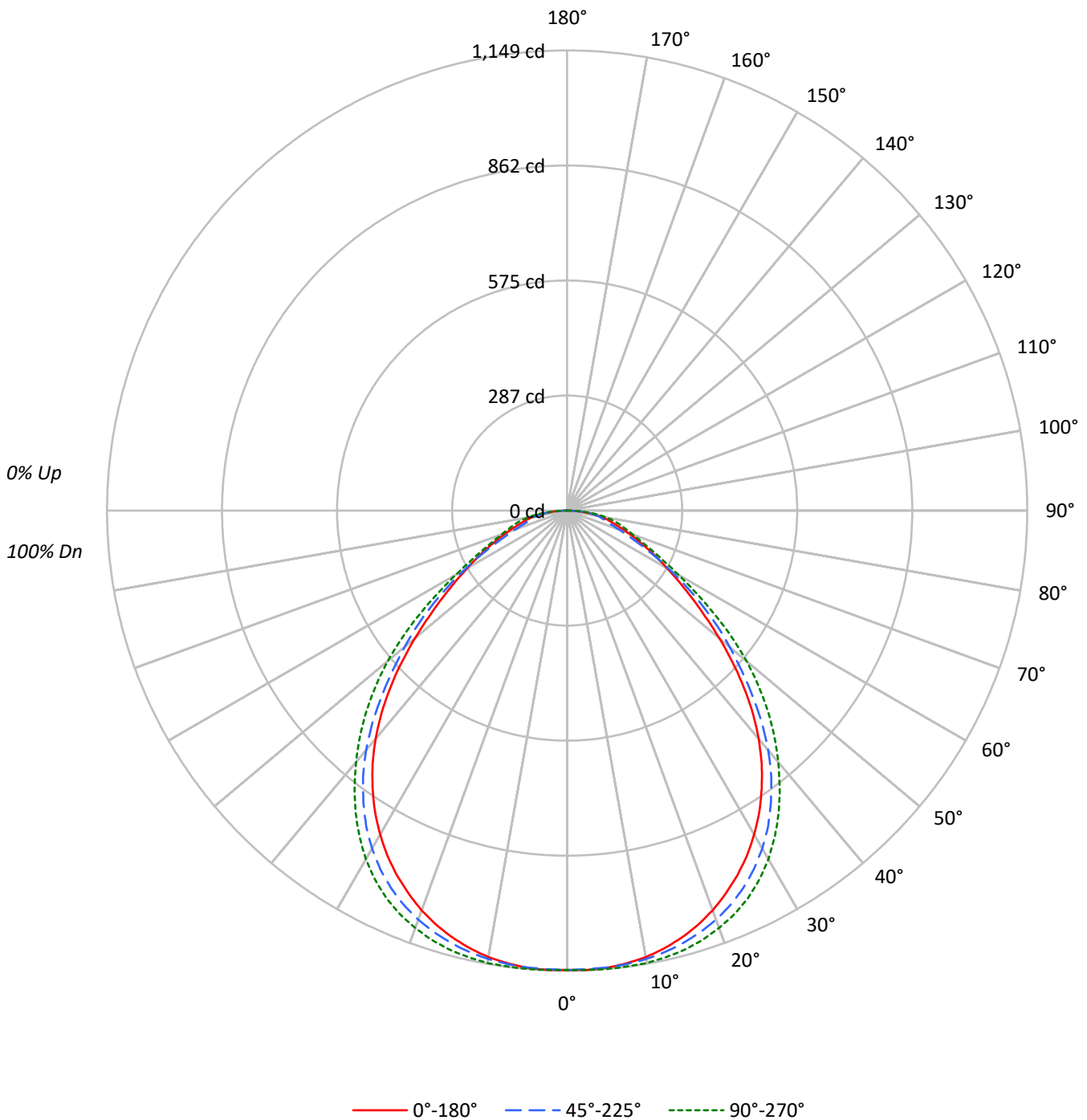
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2718.7 lumens
Efficiency: 69.7%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.3
Luminous Opening: Rectangular (W 1.7' x L: 1.7' 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

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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	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	77	74	71	68	75	72	69	67	69	67	65	66	65	63	64	62	61	60
2	70	65	61	57	69	64	60	56	61	58	55	59	56	54	57	55	53	51
3	65	58	53	48	63	57	52	48	55	51	47	53	49	46	51	48	46	44
4	60	52	46	42	58	51	46	41	49	45	41	48	44	40	46	43	40	38
5	55	47	41	36	54	46	40	36	44	40	36	43	39	36	42	38	35	34
6	51	42	36	32	50	42	36	32	40	35	32	39	35	32	38	34	31	30
7	48	39	33	29	46	38	33	29	37	32	28	36	32	28	35	31	28	27
8	44	35	30	26	43	35	29	26	34	29	26	33	29	25	32	28	25	24
9	42	33	27	23	41	32	27	23	31	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4270	4270	4270
5°	4282	4278	4293
10°	4279	4298	4335
15°	4254	4308	4374
20°	4207	4306	4393
25°	4128	4271	4386
30°	4015	4186	4320
35°	3849	4031	4185
40°	3615	3795	3985
45°	3285	3448	3732
50°	2872	3069	3388
55°	2466	2667	2901
60°	2144	2204	2390
65°	1911	1779	2035
70°	1752	1480	1894
75°	1683	1438	1970
80°	1801	1672	2144
85°	1751	1708	2221



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	109.1	4.0	2.8	0°	1147	1147	1147	1147	1147	
10°-20°	315.7	11.6	8.1	5°	1146	1145	1145	1147	1149	109
20°-30°	477.5	17.6	12.2	15°	1104	1108	1118	1130	1135	311
30°-40°	551.9	20.3	14.2	25°	1005	1017	1040	1060	1068	462
40°-50°	507.7	18.7	13.0	35°	847	861	887	910	921	528
50°-60°	368.4	13.5	9.4	45°	624	633	655	684	709	479
60°-70°	216.5	8.0	5.6	55°	380	385	411	433	447	343
70°-80°	125.2	4.6	3.2	65°	217	205	202	225	231	217
80°-90°	46.7	1.7	1.2	75°	117	114	100	128	137	126
90°-100°	0.0	0.0	0.0	85°	41	40	40	49	52	42
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	902.3	33.2	23.1	165°	0	0	0	0	0	0
0°-40°	1454.2	53.5	37.3	175°	0	0	0	0	0	0
0°-60°	2330.3	85.7	59.8	180°	0	0	0	0	0	0
0°-90°	2718.7	100.0	69.7							
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°	2718.7	100.0	69.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147	1147	1147	1147	1147
2.5°	1148	1147	1146	1147	1148
5°	1146	1145	1145	1147	1149
7.5°	1140	1140	1142	1146	1148
10°	1132	1133	1137	1144	1147
12.5°	1120	1122	1129	1138	1142
15°	1104	1108	1118	1130	1135
17.5°	1085	1090	1104	1118	1124
20°	1062	1069	1087	1103	1109
22.5°	1035	1045	1066	1084	1091
25°	1005	1017	1040	1060	1068
27.5°	972	985	1010	1030	1039
30°	934	948	974	996	1005
32.5°	893	907	934	956	965
35°	847	861	887	910	921
37.5°	798	810	837	860	872
40°	744	756	781	806	820
42.5°	686	696	720	747	766
45°	624	633	655	684	709
47.5°	560	569	590	622	648
50°	496	506	530	561	585
52.5°	435	445	471	498	517
55°	380	385	411	433	447
57.5°	331	330	352	370	380
60°	288	281	296	313	321
62.5°	251	239	246	264	271
65°	217	205	202	225	231
67.5°	187	176	165	194	199
70°	161	152	136	170	174
72.5°	137	132	115	148	154
75°	117	114	100	128	137
77.5°	101	96	89	110	120
80°	84	78	78	91	100
82.5°	64	59	62	72	78
85°	41	40	40	49	52
87.5°	18	18	18	22	22
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)