

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: 214P102

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-317A125
Description: 2 X 2 Recessed Air Supply 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

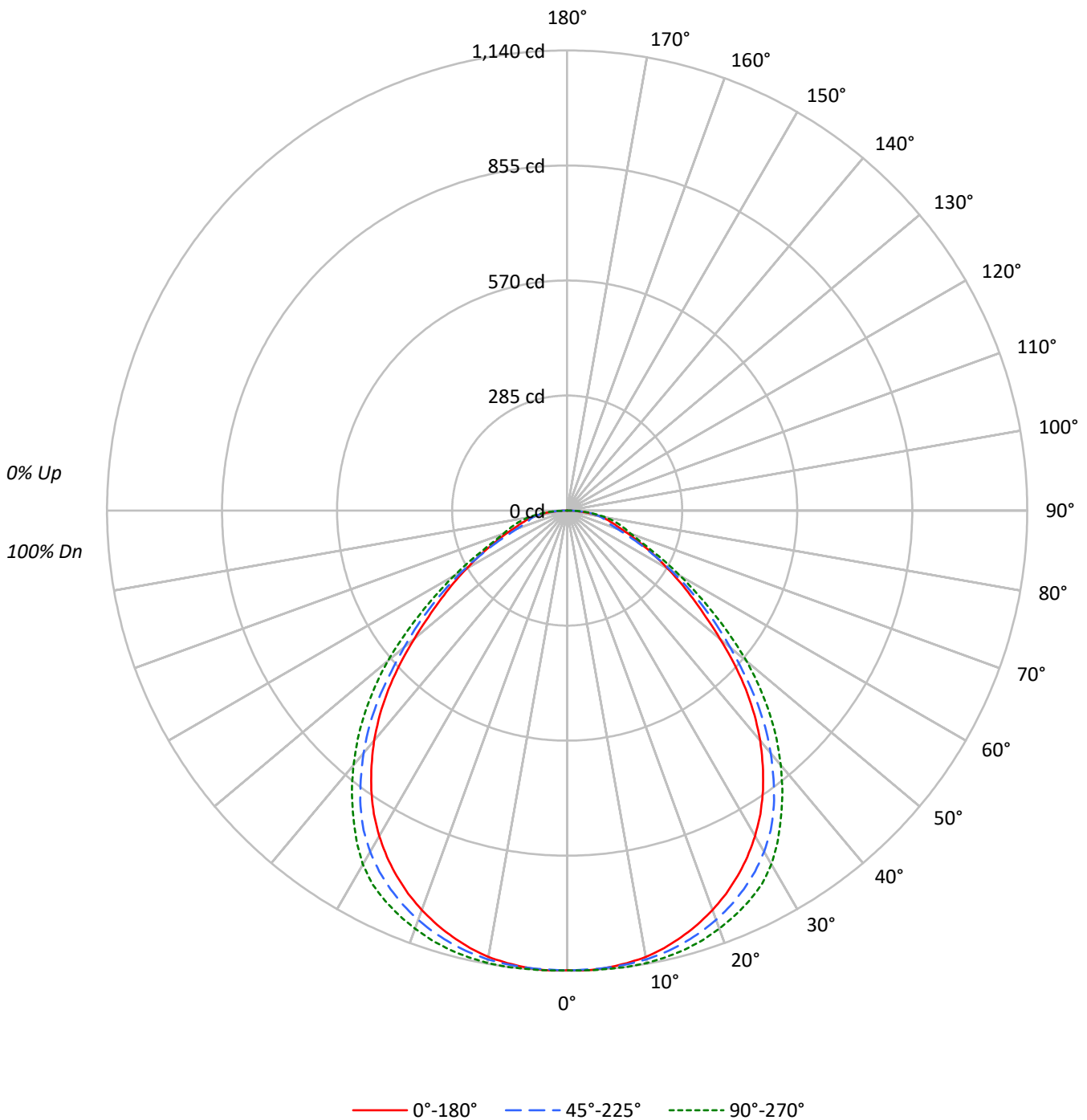
Summary

Lumens per Lamp: 1300 (3 lamps)
Luminaire Lumens: 2711.7 lumens
Efficiency: 69.5%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.31
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	76	73	71	68	74	72	69	67	69	67	65	66	65	63	64	62	61	60
2	70	65	61	57	68	64	60	56	61	58	55	59	56	54	57	55	53	51
3	64	58	53	48	63	57	52	48	55	51	47	53	49	46	51	48	46	44
4	59	52	46	42	58	51	46	41	49	44	41	48	44	40	46	43	40	38
5	55	47	41	36	54	46	40	36	44	40	36	43	39	35	42	38	35	34
6	51	42	36	32	50	42	36	32	40	35	32	39	35	31	38	34	31	30
7	47	38	33	29	46	38	32	29	37	32	28	36	31	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	41	32	27	23	40	32	27	23	31	26	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°	4240	4240	4240
5°	4248	4248	4260
10°	4245	4267	4301
15°	4216	4278	4339
20°	4171	4274	4365
25°	4103	4251	4382
30°	4002	4195	4350
35°	3844	4058	4199
40°	3615	3814	3999
45°	3295	3480	3732
50°	2861	3052	3359
55°	2466	2648	2868
60°	2144	2219	2405
65°	1867	1770	1999
70°	1665	1426	1828
75°	1640	1424	1927
80°	1779	1758	2101
85°	1794	1965	2135



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	108.3	4.0	2.8	0°	1139	1139	1139	1139	1139	
10°-20°	313.3	11.6	8.0	5°	1137	1136	1137	1139	1140	108
20°-30°	475.9	17.6	12.2	15°	1094	1099	1110	1121	1126	308
30°-40°	553.1	20.4	14.2	25°	999	1011	1035	1058	1067	460
40°-50°	508.6	18.8	13.0	35°	846	863	893	910	924	527
50°-60°	369.7	13.6	9.5	45°	626	632	661	690	709	480
60°-70°	215.2	7.9	5.5	55°	380	392	408	437	442	343
70°-80°	119.3	4.4	3.1	65°	212	205	201	225	227	213
80°-90°	48.3	1.8	1.2	75°	114	105	99	116	134	122
90°-100°	0.0	0.0	0.0	85°	42	42	46	51	50	43
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	897.5	33.1	23.0	165°	0	0	0	0	0	0
0°-40°	1450.7	53.5	37.2	175°	0	0	0	0	0	0
0°-60°	2329.0	85.9	59.7	180°	0	0	0	0	0	0
0°-90°	2711.7	100.0	69.5							
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°	2711.7	100.0	69.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139	1139	1139	1139	1139
2.5°	1140	1139	1138	1139	1140
5°	1137	1136	1137	1139	1140
7.5°	1131	1132	1134	1138	1140
10°	1123	1124	1129	1135	1138
12.5°	1110	1113	1121	1130	1133
15°	1094	1099	1110	1121	1126
17.5°	1075	1081	1096	1110	1116
20°	1053	1061	1079	1096	1102
22.5°	1028	1037	1059	1079	1086
25°	999	1011	1035	1058	1067
27.5°	967	980	1008	1033	1044
30°	931	946	976	1002	1012
32.5°	891	907	939	960	971
35°	846	863	893	910	924
37.5°	796	813	840	858	876
40°	744	757	785	806	823
42.5°	687	696	726	750	768
45°	626	632	661	690	709
47.5°	561	567	591	624	646
50°	494	504	527	556	580
52.5°	433	447	467	495	510
55°	380	392	408	437	442
57.5°	333	340	352	380	379
60°	288	290	298	325	323
62.5°	248	245	247	272	272
65°	212	205	201	225	227
67.5°	180	170	162	187	192
70°	153	142	131	158	168
72.5°	131	121	110	135	151
75°	114	105	99	116	134
77.5°	99	90	93	101	117
80°	83	77	82	88	98
82.5°	64	61	66	73	76
85°	42	42	46	51	50
87.5°	19	20	21	24	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)