

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: 214P105

Luminaire Tested: **2GCASF-417A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-417A125
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .125 pattern 12 acrylic lens.
Light Source: Four - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic

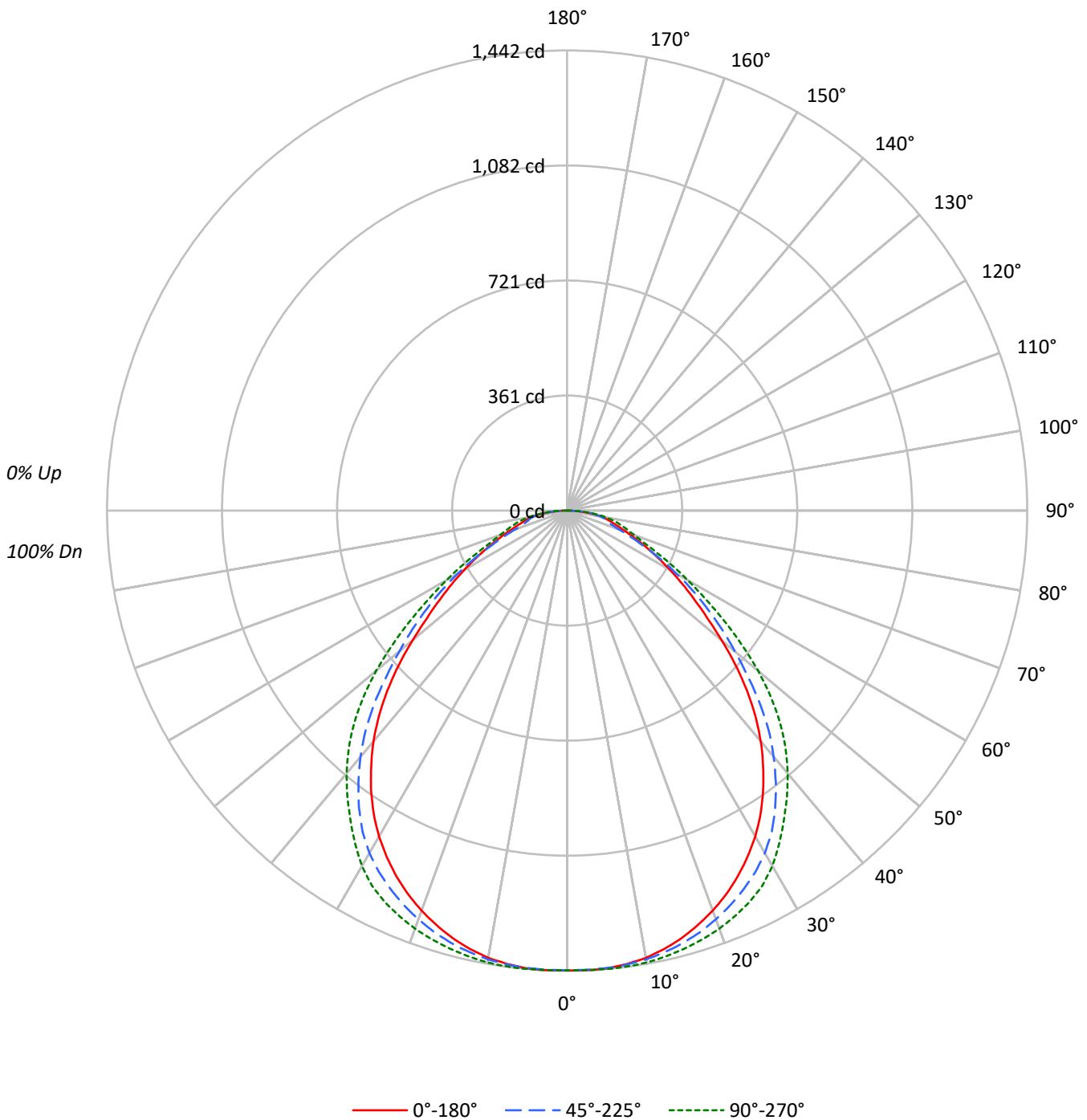
Summary

Lumens per Lamp: 1300 (4 lamps)
Luminaire Lumens: 3490.7 lumens
Efficiency: 67.1%
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.32
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
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	80	80	80	80	78	78	78	78	75	75	75	71	71	71	68	68	68	67
1	74	71	68	66	72	69	67	65	66	64	63	64	62	61	61	60	59	58
2	68	63	58	55	66	61	57	54	59	56	53	57	54	52	55	53	51	49
3	62	56	51	46	61	55	50	46	53	49	45	51	47	44	49	46	44	42
4	57	50	44	40	56	49	44	40	47	43	39	46	42	39	44	41	38	37
5	53	45	39	35	52	44	39	35	43	38	34	41	37	34	40	37	34	32
6	49	41	35	31	48	40	35	31	39	34	30	38	33	30	37	33	30	29
7	46	37	31	27	44	36	31	27	35	31	27	34	30	27	34	30	27	25
8	43	34	28	25	41	33	28	25	32	28	24	32	27	24	31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	21
10	37	29	24	20	36	28	24	20	28	23	20	27	23	20	27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5364	5364	5364
5°	5381	5377	5388
10°	5379	5398	5435
15°	5345	5407	5476
20°	5284	5399	5522
25°	5196	5376	5557
30°	5068	5325	5527
35°	4867	5167	5380
40°	4587	4893	5224
45°	4190	4496	4975
50°	3660	3973	4523
55°	3160	3485	3881
60°	2769	2956	3246
65°	2422	2361	2695
70°	2166	1894	2416
75°	2129	1855	2502
80°	2315	2294	2701
85°	2349	2520	2733



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	137.1	3.9	2.6	0°	1441	1441	1441	1441	1441	
10°-20°	396.1	11.3	7.6	5°	1440	1438	1439	1441	1442	137
20°-30°	602.5	17.3	11.6	15°	1387	1390	1403	1416	1421	391
30°-40°	705.1	20.2	13.6	25°	1265	1278	1309	1340	1353	582
40°-50°	660.2	18.9	12.7	35°	1071	1095	1137	1162	1184	668
50°-60°	486.6	13.9	9.4	45°	796	810	854	909	945	611
60°-70°	284.9	8.2	5.5	55°	487	505	537	586	598	440
70°-80°	155.5	4.5	3.0	65°	275	267	268	302	306	276
80°-90°	62.7	1.8	1.2	75°	148	136	129	152	174	158
90°-100°	0.0	0.0	0.0	85°	55	55	59	66	64	56
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°	1135.6	32.5	21.8	165°	0	0	0	0	0	0
0°-40°	1840.7	52.7	35.4	175°	0	0	0	0	0	0
0°-60°	2987.5	85.6	57.5	180°	0	0	0	0	0	0
0°-90°	3490.7	100.0	67.1							
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°	3490.7	100.0	67.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441	1441	1441	1441	1441
2.5°	1442	1440	1440	1441	1441
5°	1440	1438	1439	1441	1442
7.5°	1433	1432	1435	1439	1441
10°	1423	1423	1428	1435	1438
12.5°	1407	1409	1417	1427	1431
15°	1387	1390	1403	1416	1421
17.5°	1362	1368	1385	1401	1409
20°	1334	1341	1363	1384	1394
22.5°	1302	1312	1338	1364	1375
25°	1265	1278	1309	1340	1353
27.5°	1224	1240	1277	1310	1325
30°	1179	1197	1239	1271	1286
32.5°	1128	1150	1193	1221	1237
35°	1071	1095	1137	1162	1184
37.5°	1009	1033	1074	1104	1131
40°	944	964	1007	1044	1075
42.5°	873	889	935	981	1014
45°	796	810	854	909	945
47.5°	715	726	767	828	867
50°	632	646	686	744	781
52.5°	554	574	611	664	689
55°	487	505	537	586	598
57.5°	428	438	466	510	512
60°	372	376	397	436	436
62.5°	321	319	330	366	368
65°	275	267	268	302	306
67.5°	234	221	215	250	256
70°	199	185	174	209	222
72.5°	170	158	145	177	197
75°	148	136	129	152	174
77.5°	128	117	120	131	151
80°	108	99	107	115	126
82.5°	83	79	85	95	97
85°	55	55	59	66	64
87.5°	26	27	28	32	29
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)