

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: 214P104

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-417A
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Four - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic

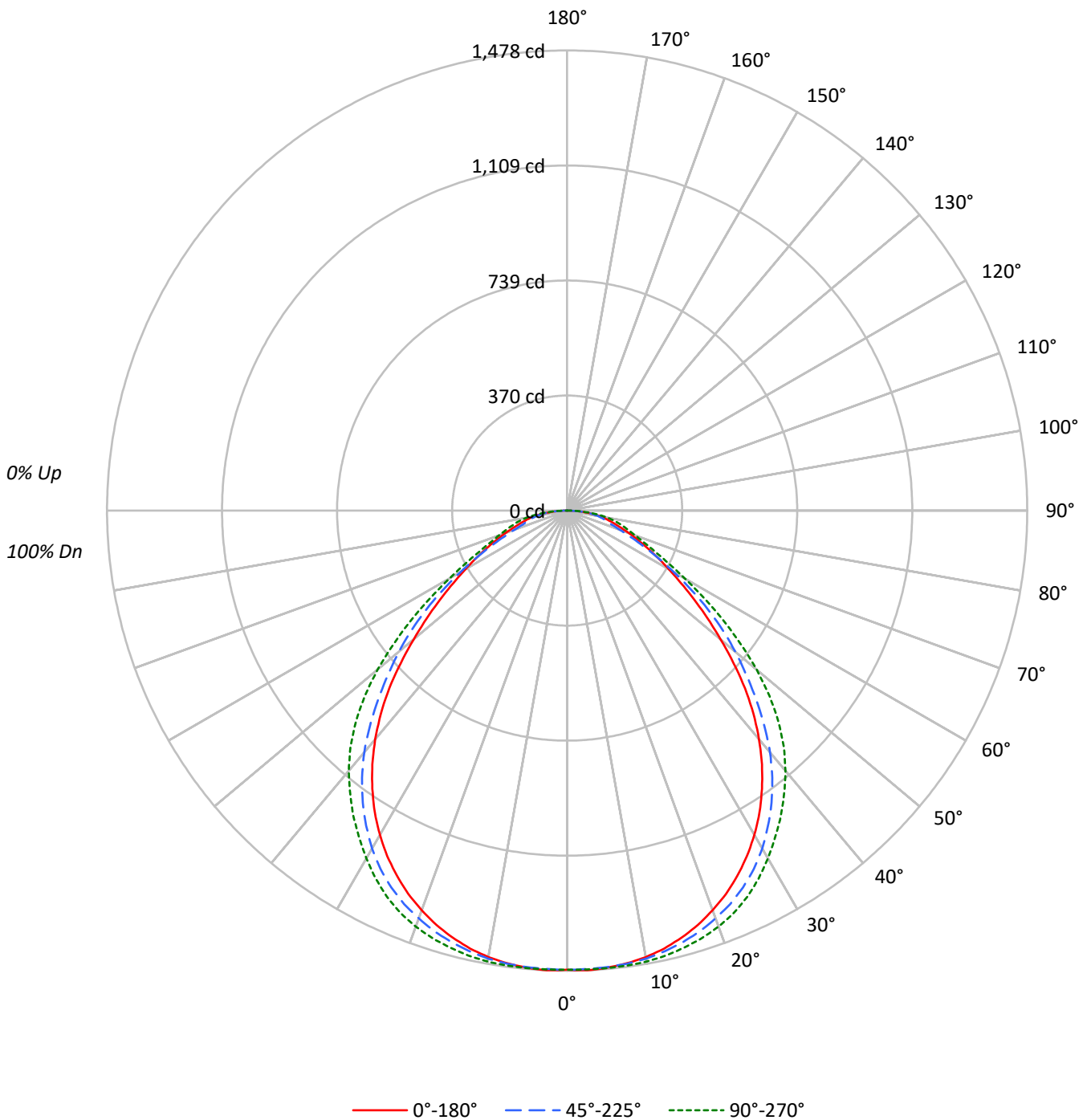
Summary

Lumens per Lamp: 1300 (4 lamps)
Luminaire Lumens: 3543.8 lumens
Efficiency: 68.2%
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.31
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 62
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	81	81	81	81	79	79	79	79	76	76	76		73	73	73		70	70	70	68
1	75	72	69	67	73	70	68	66	67	65	64		65	63	62		62	61	60	58
2	69	64	59	56	67	62	58	55	60	57	54		58	55	53		56	53	51	50
3	63	56	51	47	61	55	51	47	53	49	46		52	48	45		50	47	44	43
4	58	51	45	41	57	50	44	40	48	43	40		46	42	39		45	42	39	37
5	54	45	40	35	52	45	39	35	43	39	35		42	38	35		41	37	34	33
6	50	41	35	31	49	41	35	31	39	35	31		38	34	31		37	33	30	29
7	46	38	32	28	45	37	32	28	36	31	28		35	31	27		34	30	27	26
8	43	34	29	25	42	34	29	25	33	28	25		32	28	25		31	27	25	23
9	40	32	26	23	39	31	26	23	30	26	22		30	25	22		29	25	22	21
10	38	29	24	21	37	29	24	21	28	24	20		28	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5490	5490	5490
5°	5508	5500	5511
10°	5503	5522	5560
15°	5472	5530	5599
20°	5411	5522	5633
25°	5315	5487	5623
30°	5171	5386	5545
35°	4958	5203	5439
40°	4660	4927	5301
45°	4253	4517	5054
50°	3729	4083	4598
55°	3225	3576	3952
60°	2807	2948	3246
65°	2501	2369	2730
70°	2286	1948	2525
75°	2200	1884	2603
80°	2315	2165	2830
85°	2221	2178	2819



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.3	4.0	2.7	0°	1475	1475	1475	1475	1475	
10°-20°	405.3	11.4	7.8	5°	1474	1472	1472	1475	1475	140
20°-30°	613.2	17.3	11.8	15°	1420	1424	1435	1448	1453	400
30°-40°	713.4	20.1	13.7	25°	1294	1307	1336	1360	1369	595
40°-50°	669.1	18.9	12.9	35°	1091	1108	1145	1178	1197	680
50°-60°	491.6	13.9	9.5	45°	808	820	858	919	960	620
60°-70°	287.6	8.1	5.5	55°	497	505	551	587	609	448
70°-80°	163.8	4.6	3.1	65°	284	269	269	302	310	284
80°-90°	59.6	1.7	1.1	75°	153	148	131	169	181	164
90°-100°	0.0	0.0	0.0	85°	52	51	51	63	66	54
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°	1158.8	32.7	22.3	165°	0	0	0	0	0	0
0°-40°	1872.2	52.8	36.0	175°	0	0	0	0	0	0
0°-60°	3032.9	85.6	58.3	180°	0	0	0	0	0	0
0°-90°	3543.8	100.0	68.2							
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°	3543.8	100.0	68.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475	1475	1475	1475	1475
2.5°	1478	1475	1474	1475	1475
5°	1474	1472	1472	1475	1475
7.5°	1467	1466	1468	1472	1474
10°	1456	1457	1461	1468	1471
12.5°	1441	1442	1450	1460	1464
15°	1420	1424	1435	1448	1453
17.5°	1396	1401	1417	1433	1440
20°	1366	1374	1394	1414	1422
22.5°	1333	1343	1368	1391	1399
25°	1294	1307	1336	1360	1369
27.5°	1251	1266	1298	1322	1332
30°	1203	1219	1253	1278	1290
32.5°	1150	1167	1201	1230	1244
35°	1091	1108	1145	1178	1197
37.5°	1028	1045	1082	1122	1145
40°	959	976	1014	1061	1091
42.5°	886	901	938	993	1030
45°	808	820	858	919	960
47.5°	725	738	780	841	881
50°	644	658	705	760	794
52.5°	567	581	629	675	701
55°	497	505	551	587	609
57.5°	433	433	471	501	519
60°	377	369	396	424	436
62.5°	328	315	328	356	367
65°	284	269	269	302	310
67.5°	245	230	219	259	266
70°	210	198	179	224	232
72.5°	179	172	150	195	204
75°	153	148	131	169	181
77.5°	131	125	116	143	158
80°	108	100	101	118	132
82.5°	81	76	80	93	101
85°	52	51	51	63	66
87.5°	20	21	21	26	28
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)