

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: 182P105

Luminaire Tested: **2GCASF-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 182P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-232A
Description: 2 X 4 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Two - FO32T8/735 - 2800 Lumens ea. 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.16

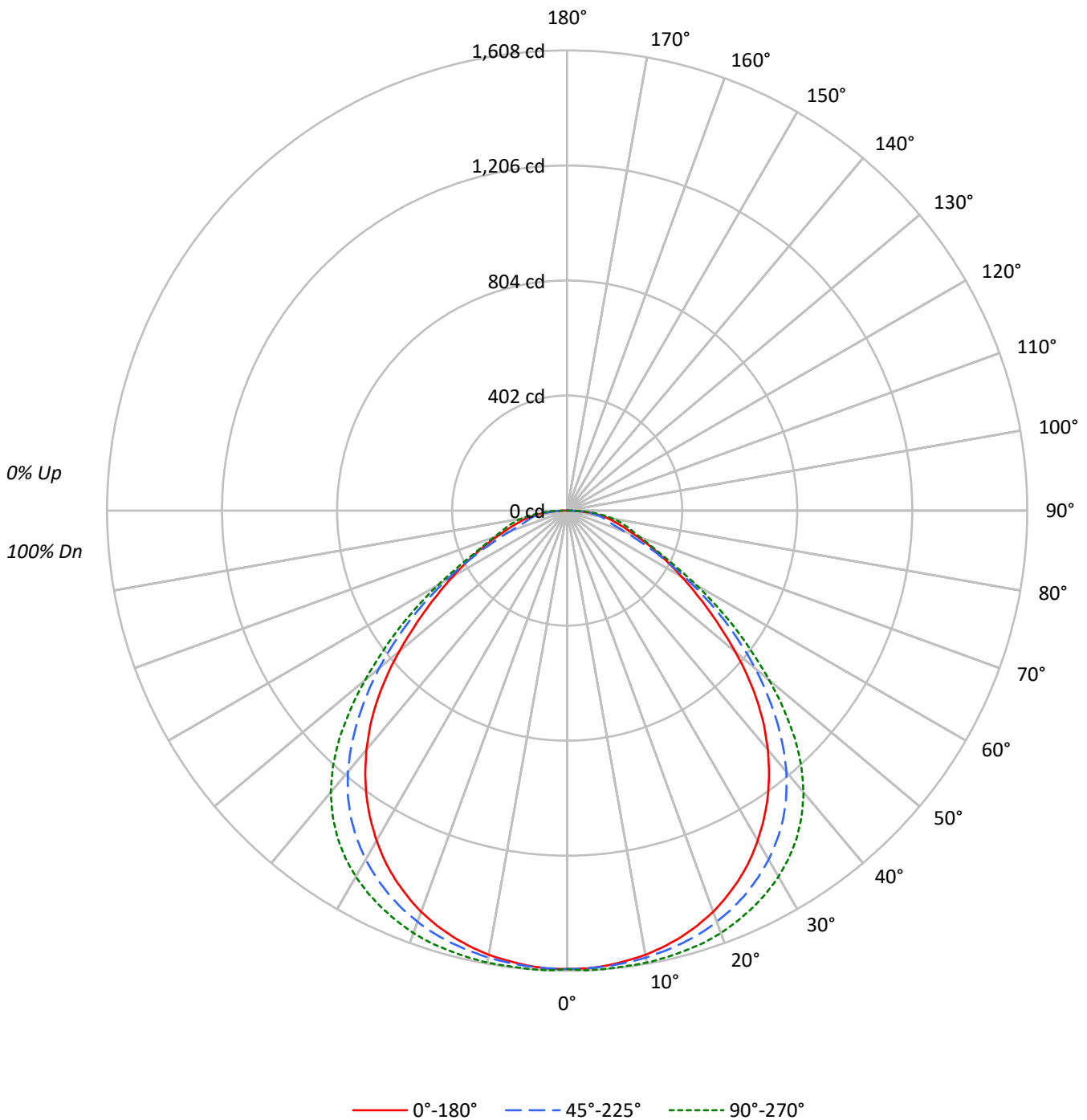
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4102.6 lumens
Efficiency: 73.3%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.36
Luminous Opening: Rectangular (W 1.68' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73						73													
1	80	77	74	71	78	75	73	70	72	70	68	69	68	66	67	65	64						63														
2	74	68	63	59	72	67	62	59	64	60	57	62	59	56	59	57	55						53														
3	67	60	55	50	66	59	54	50	57	52	49	55	51	48	53	50	47						46														
4	62	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41						39														
5	57	48	42	37	56	47	42	37	46	41	37	45	40	36	43	39	36						35														
6	53	44	37	33	52	43	37	33	42	36	32	40	36	32	39	35	32						30														
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	28						27														
8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26						24														
9	43	33	28	24	42	33	27	24	32	27	23	31	27	23	31	26	23						22														
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21						20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2773	2773	2773
5°	2773	2776	2792
10°	2770	2787	2819
15°	2763	2802	2853
20°	2748	2816	2894
25°	2716	2823	2926
30°	2662	2814	2952
35°	2582	2781	2954
40°	2465	2693	2903
45°	2298	2531	2754
50°	2063	2310	2483
55°	1810	2028	2161
60°	1596	1693	1803
65°	1425	1351	1487
70°	1301	1073	1371
75°	1257	1003	1438
80°	1365	1196	1635
85°	1450	1390	1847



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.2	3.7	2.7	0°	1602	1602	1602	1602	1602	
10°-20°	441.9	10.8	7.9	5°	1596	1595	1598	1600	1607	152
20°-30°	680.1	16.6	12.1	15°	1542	1546	1564	1580	1592	435
30°-40°	817.9	19.9	14.6	25°	1422	1437	1478	1514	1532	654
40°-50°	791.0	19.3	14.1	35°	1222	1251	1316	1371	1398	762
50°-60°	592.8	14.4	10.6	45°	939	968	1034	1090	1125	721
60°-70°	350.3	8.5	6.3	55°	600	623	672	694	716	540
70°-80°	196.1	4.8	3.5	65°	348	333	330	366	363	349
80°-90°	80.3	2.0	1.4	75°	188	178	150	202	215	202
90°-100°	0.0	0.0	0.0	85°	73	69	70	87	93	73
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1274.3	31.1	22.8	165°	0	0	0	0	0	0
0°-40°	2092.2	51.0	37.4	175°	0	0	0	0	0	0
0°-60°	3475.9	84.7	62.1	180°	0	0	0	0	0	0
0°-90°	4102.6	100.0	73.3							
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°	4102.6	100.0	73.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602	1602	1602	1602	1602
2.5°	1601	1599	1601	1601	1608
5°	1596	1595	1598	1600	1607
7.5°	1587	1587	1593	1598	1605
10°	1576	1577	1586	1593	1604
12.5°	1561	1563	1576	1588	1599
15°	1542	1546	1564	1580	1592
17.5°	1519	1526	1549	1569	1584
20°	1492	1500	1529	1555	1571
22.5°	1459	1471	1506	1537	1553
25°	1422	1437	1478	1514	1532
27.5°	1380	1399	1445	1486	1507
30°	1332	1355	1408	1454	1477
32.5°	1279	1305	1365	1416	1441
35°	1222	1251	1316	1371	1398
37.5°	1159	1190	1258	1316	1346
40°	1091	1123	1192	1252	1285
42.5°	1018	1049	1116	1176	1211
45°	939	968	1034	1090	1125
47.5°	854	882	947	995	1026
50°	766	794	858	894	922
52.5°	680	707	765	792	817
55°	600	623	672	694	716
57.5°	527	540	579	602	617
60°	461	462	489	515	521
62.5°	402	393	406	435	434
65°	348	333	330	366	363
67.5°	301	282	264	312	310
70°	257	241	212	269	271
72.5°	219	208	173	233	240
75°	188	178	150	202	215
77.5°	162	151	135	173	191
80°	137	123	120	145	164
82.5°	107	96	99	118	131
85°	73	69	70	87	93
87.5°	38	39	38	48	51
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)