

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: 182P103

Luminaire Tested: **2GCASF-332A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 182P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-332A
Description: 2 X 4 Recessed Air Supply Convertible Body
Luminaire with a .095 pattern 12 acrylic lens.
Light Source: Three - FO32/735 - 2800 Lumens ea. 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.4

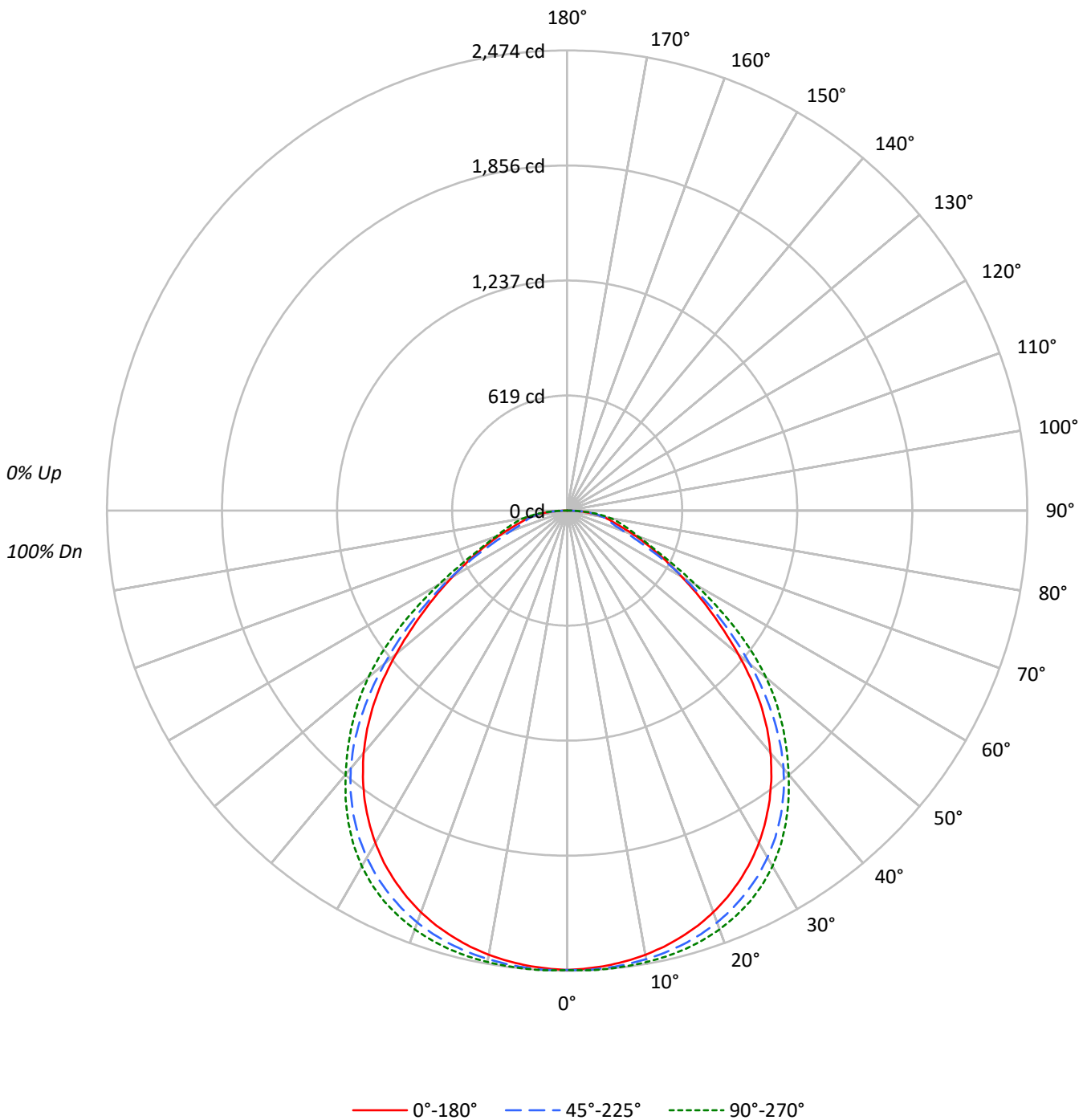
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6224.7 lumens
Efficiency: 74.1%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.31 / 1.35
Luminous Opening: Rectangular (W 1.69' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 86.7
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	50	30	10	0	
RCR																						
0	88	88	88	88	86	86	86	86	82	82	82	79	79	79	76	76	76	74				
1	81	78	75	72	79	76	74	71	73	71	69	70	68	67	68	66	65	63				
2	74	69	64	60	73	67	63	59	65	61	58	62	59	57	60	58	55	54				
3	68	61	55	51	67	60	55	50	58	53	49	56	52	49	54	51	48	46				
4	63	54	48	44	61	53	48	43	52	47	43	50	46	42	48	45	42	40				
5	58	49	43	38	57	48	42	38	47	41	37	45	41	37	44	40	37	35				
6	54	44	38	33	52	44	38	33	42	37	33	41	36	33	40	36	32	31				
7	50	40	34	30	49	40	34	30	39	33	29	38	33	29	37	32	29	28				
8	47	37	31	27	45	36	31	27	35	30	26	34	30	26	34	29	26	25				
9	44	34	28	24	43	33	28	24	33	27	24	32	27	24	31	27	24	22				
10	41	31	26	22	40	31	25	22	30	25	22	30	25	22	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4249	4249	4249
5°	4241	4261	4272
10°	4236	4277	4305
15°	4226	4299	4349
20°	4206	4314	4386
25°	4166	4310	4405
30°	4098	4278	4386
35°	3986	4204	4305
40°	3822	4064	4161
45°	3576	3807	3985
50°	3211	3431	3738
55°	2810	2981	3308
60°	2449	2484	2745
65°	2149	1970	2259
70°	1921	1619	2047
75°	1801	1588	2107
80°	1971	1942	2358
85°	2131	2230	2506



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	234.5	3.8	2.8	0°	2470	2470	2470	2470	2470	
10°-20°	680.1	10.9	8.1	5°	2456	2456	2468	2465	2474	233
20°-30°	1041.5	16.7	12.4	15°	2373	2383	2414	2428	2442	670
30°-40°	1238.7	19.9	14.7	25°	2195	2219	2271	2300	2321	1010
40°-50°	1195.7	19.2	14.2	35°	1898	1934	2002	2034	2050	1184
50°-60°	895.3	14.4	10.7	45°	1470	1505	1565	1606	1638	1128
60°-70°	521.2	8.4	6.2	55°	937	937	994	1046	1103	843
70°-80°	296.2	4.8	3.5	65°	528	481	484	548	555	529
80°-90°	121.5	2.0	1.4	75°	271	265	239	306	317	294
90°-100°	0.0	0.0	0.0	85°	108	110	113	127	127	107
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	8
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°	1956.1	31.4	23.3	165°	0	0	0	0	0	0
0°-40°	3194.8	51.3	38.0	175°	0	0	0	0	0	0
0°-60°	5285.7	84.9	62.9	180°	0	0	0	0	0	0
0°-90°	6224.7	100.0	74.1							
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°	6224.7	100.0	74.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470	2470	2470	2470	2470
2.5°	2464	2463	2472	2467	2474
5°	2456	2456	2468	2465	2474
7.5°	2443	2445	2460	2459	2470
10°	2425	2429	2449	2454	2465
12.5°	2402	2408	2434	2444	2456
15°	2373	2383	2414	2428	2442
17.5°	2339	2351	2389	2407	2422
20°	2298	2314	2357	2379	2396
22.5°	2250	2270	2318	2344	2362
25°	2195	2219	2271	2300	2321
27.5°	2133	2160	2217	2249	2270
30°	2063	2094	2154	2187	2208
32.5°	1984	2018	2083	2115	2135
35°	1898	1934	2002	2034	2050
37.5°	1804	1841	1912	1940	1956
40°	1702	1740	1810	1836	1853
42.5°	1591	1628	1695	1724	1747
45°	1470	1505	1565	1606	1638
47.5°	1340	1371	1427	1479	1522
50°	1200	1228	1282	1344	1397
52.5°	1065	1080	1137	1198	1257
55°	937	937	994	1046	1103
57.5°	821	801	855	902	947
60°	712	677	722	769	798
62.5°	615	570	596	649	666
65°	528	481	484	548	555
67.5°	450	410	392	468	471
70°	382	351	322	406	407
72.5°	321	303	271	353	358
75°	271	265	239	306	317
77.5°	233	230	218	263	280
80°	199	193	196	222	238
82.5°	157	153	161	179	188
85°	108	110	113	127	127
87.5°	57	58	57	63	62
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)