

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: 228P100

Luminaire Tested: **GCASF2048-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 228P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: GCASF2048-232A
Description: 20 x 48 Recessed 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. = 87.6

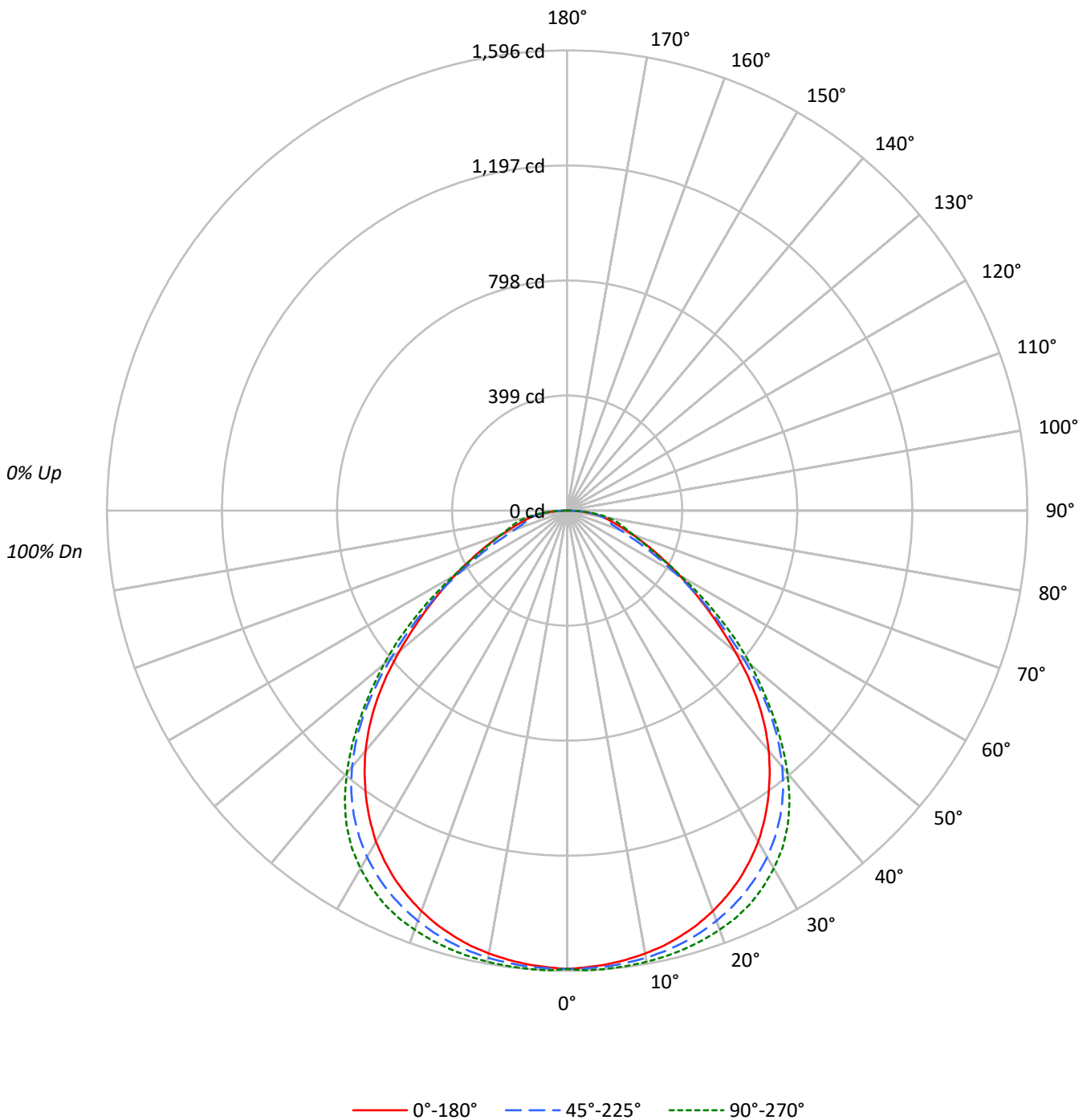
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3931.0 lumens
Efficiency: 70.2%
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.32 / 1.35
Luminous Opening: Rectangular (W 1.35' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70				70
1	77	74	71	69	75	72	70	68	69	67	65	67	65	63	64	63	62	60				60
2	71	65	61	57	69	64	60	56	62	58	55	59	56	54	57	55	53	51				51
3	65	58	53	48	63	57	52	48	55	51	47	53	49	46	51	48	46	44				44
4	60	52	46	42	58	51	46	41	49	45	41	48	44	40	46	43	40	38				38
5	55	47	41	36	54	46	40	36	44	40	36	43	39	35	42	38	35	34				34
6	51	42	36	32	50	42	36	32	40	35	32	39	35	31	38	34	31	30				30
7	48	38	33	28	46	38	32	28	37	32	28	36	31	28	35	31	28	26				26
8	44	35	29	26	43	35	29	25	34	29	25	33	28	25	32	28	25	24				24
9	41	32	27	23	41	32	27	23	31	26	23	30	26	23	30	26	23	21				21
10	39	30	25	21	38	30	24	21	29	24	21	28	24	21	28	24	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3408	3408	3408
5°	3400	3415	3432
10°	3395	3428	3458
15°	3389	3444	3493
20°	3371	3453	3529
25°	3339	3455	3557
30°	3282	3435	3547
35°	3182	3375	3491
40°	3044	3249	3327
45°	2837	3019	3071
50°	2531	2664	2768
55°	2212	2265	2392
60°	1925	1856	1963
65°	1684	1466	1628
70°	1498	1210	1517
75°	1408	1226	1607
80°	1543	1518	1815
85°	1648	1697	1918



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.0	3.8	2.7	0°	1590	1590	1590	1590	1590	
10°-20°	437.9	11.1	7.8	5°	1580	1582	1587	1590	1595	150
20°-30°	671.5	17.1	12.0	15°	1527	1534	1552	1565	1574	431
30°-40°	798.5	20.3	14.3	25°	1412	1426	1461	1490	1504	650
40°-50°	754.8	19.2	13.5	35°	1216	1240	1290	1320	1334	759
50°-60°	545.4	13.9	9.7	45°	936	960	996	1004	1013	718
60°-70°	314.1	8.0	5.6	55°	592	592	606	615	640	532
70°-80°	182.6	4.6	3.3	65°	332	300	289	322	321	332
80°-90°	75.3	1.9	1.3	75°	170	165	148	188	194	184
90°-100°	0.0	0.0	0.0	85°	67	68	69	79	78	67
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°	1260.4	32.1	22.5	165°	0	0	0	0	0	0
0°-40°	2058.9	52.4	36.8	175°	0	0	0	0	0	0
0°-60°	3359.0	85.4	60.0	180°	0	0	0	0	0	0
0°-90°	3931.0	100.0	70.2							
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°	3931.0	100.0	70.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590	1590	1590	1590	1590
2.5°	1585	1585	1589	1591	1596
5°	1580	1582	1587	1590	1595
7.5°	1571	1574	1582	1587	1593
10°	1560	1564	1575	1583	1589
12.5°	1546	1550	1565	1576	1583
15°	1527	1534	1552	1565	1574
17.5°	1505	1513	1535	1552	1562
20°	1478	1488	1514	1536	1547
22.5°	1447	1459	1490	1516	1529
25°	1412	1426	1461	1490	1504
27.5°	1371	1388	1427	1458	1472
30°	1326	1344	1388	1419	1433
32.5°	1273	1295	1342	1374	1389
35°	1216	1240	1290	1320	1334
37.5°	1154	1181	1230	1257	1267
40°	1088	1115	1161	1183	1189
42.5°	1015	1042	1084	1098	1104
45°	936	960	996	1004	1013
47.5°	850	872	899	907	921
50°	759	780	799	809	830
52.5°	672	686	700	710	737
55°	592	592	606	615	640
57.5°	517	503	517	529	546
60°	449	422	433	451	458
62.5°	387	355	355	379	381
65°	332	300	289	322	321
67.5°	282	255	235	278	276
70°	239	218	193	244	242
72.5°	201	189	165	215	215
75°	170	165	148	188	194
77.5°	146	144	136	162	172
80°	125	121	123	137	147
82.5°	98	96	101	111	116
85°	67	68	69	79	78
87.5°	34	36	35	38	36
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)