

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: 231P103

Luminaire Tested: **GC8-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 231P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: GC8-232A
Description: 1 X 4 Recessed Body Luminaire with a .095
pattern 12 acrylic lens and dedicated T8 sockets.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic - L.O.B.F. = UNKNOWN

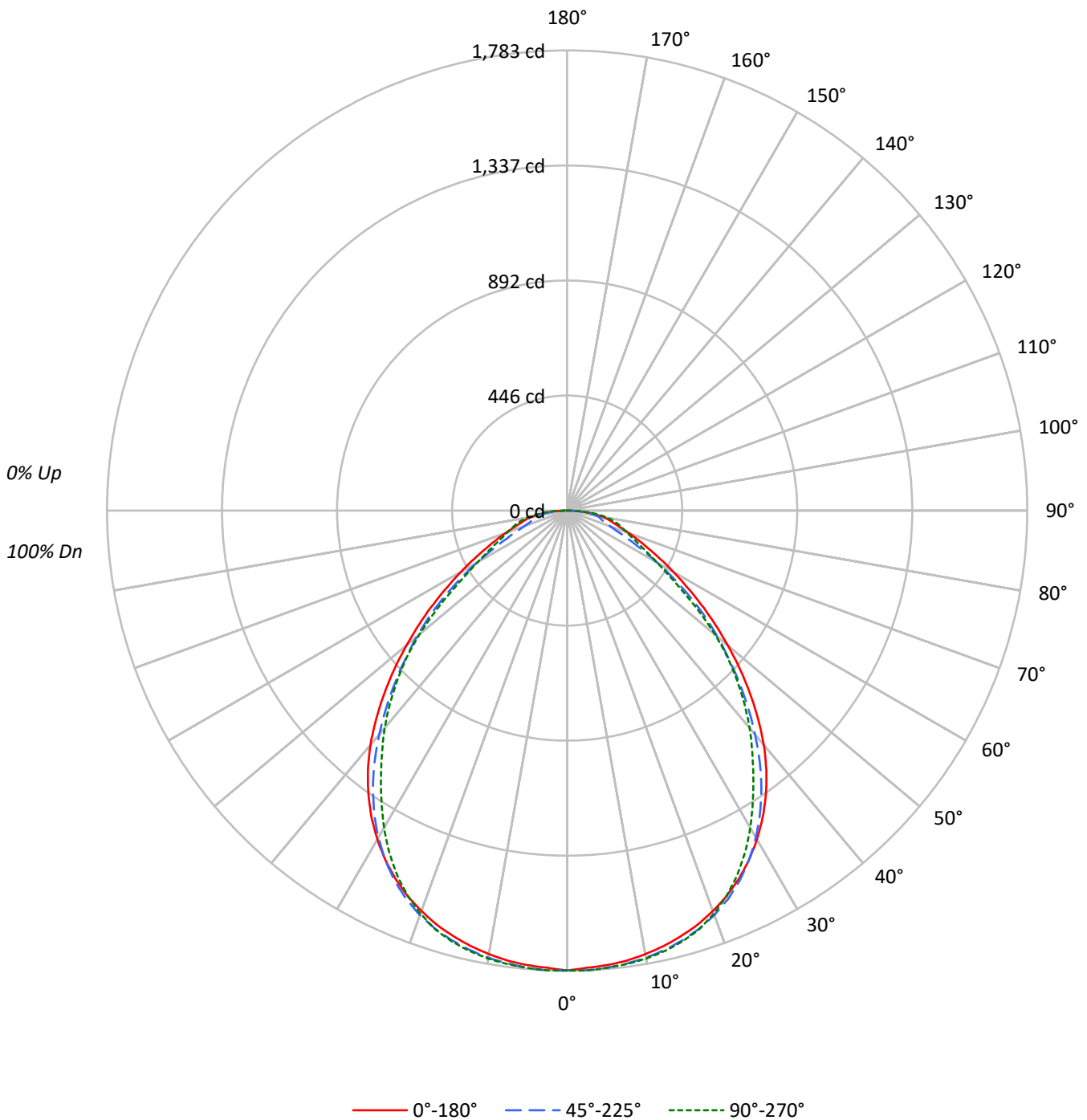
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4009.0 lumens
Efficiency: 71.6%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.18 / 1.26
Luminous Opening: Rectangular (W 0.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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

TEST NUMBER: 231P103
CATALOG NUMBER: GC8-232A

Luminous Intensity Polar Plot





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 CATALOG NUMBER: GC8-232A

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	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72
1	79	76	73	70	77	74	71	69	71	69	67	68	66	65	66	64	63	62
2	72	67	62	59	70	66	62	58	63	60	57	61	58	55	59	56	54	53
3	67	60	54	50	65	59	54	50	56	52	49	55	51	48	53	50	47	46
4	61	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41	40
5	57	48	42	38	55	48	42	38	46	41	37	45	40	37	43	40	37	35
6	53	44	38	34	51	43	38	33	42	37	33	41	36	33	40	36	33	31
7	49	40	34	30	48	39	34	30	38	33	30	37	33	29	36	32	29	28
8	46	37	31	27	45	36	31	27	35	30	27	34	30	27	34	30	26	25
9	43	34	28	24	42	33	28	24	33	28	24	32	27	24	31	27	24	23
10	40	31	26	22	39	31	26	22	30	26	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6373	6373	6373
5°	6347	6383	6386
10°	6337	6388	6402
15°	6320	6383	6398
20°	6283	6348	6325
25°	6211	6242	6152
30°	6074	6041	5860
35°	5863	5728	5492
40°	5537	5289	5135
45°	5068	4769	4709
50°	4523	4228	4167
55°	3947	3610	3423
60°	3397	2868	2868
65°	2945	2209	2581
70°	2645	1830	2562
75°	2584	1921	2833
80°	2883	2410	3213
85°	3077	2667	3447



TEST NUMBER: 231P103
 CATALOG NUMBER: GC8-232A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	168.9	4.2	3.0	0°	1782	1782	1782	1782	1782	
10°-20°	485.5	12.1	8.7	5°	1768	1772	1778	1781	1779	168
20°-30°	723.4	18.0	12.9	15°	1707	1714	1724	1731	1728	482
30°-40°	814.7	20.3	14.5	25°	1574	1582	1582	1571	1559	724
40°-50°	736.1	18.4	13.1	35°	1343	1339	1312	1275	1258	837
50°-60°	519.1	12.9	9.3	45°	1002	990	943	928	931	771
60°-70°	300.3	7.5	5.4	55°	633	587	579	550	549	569
70°-80°	184.1	4.6	3.3	65°	348	298	261	297	305	350
80°-90°	76.8	1.9	1.4	75°	187	169	139	189	205	202
90°-100°	0.0	0.0	0.0	85°	75	70	65	82	84	74
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°	1377.8	34.4	24.6	165°	0	0	0	0	0	0
0°-40°	2192.5	54.7	39.2	175°	0	0	0	0	0	0
0°-60°	3447.7	86.0	61.6	180°	0	0	0	0	0	0
0°-90°	4009.0	100.0	71.6							
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°	4009.0	100.0	71.6							



TEST NUMBER: 231P103
 CATALOG NUMBER: GC8-232A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782	1782	1782	1782	1782
2.5°	1773	1778	1783	1785	1783
5°	1768	1772	1778	1781	1779
7.5°	1759	1764	1770	1774	1772
10°	1745	1751	1759	1763	1763
12.5°	1728	1734	1744	1750	1748
15°	1707	1714	1724	1731	1728
17.5°	1682	1690	1699	1704	1701
20°	1651	1660	1668	1668	1662
22.5°	1616	1625	1629	1624	1615
25°	1574	1582	1582	1571	1559
27.5°	1526	1532	1526	1507	1493
30°	1471	1474	1463	1435	1419
32.5°	1410	1410	1391	1357	1339
35°	1343	1339	1312	1275	1258
37.5°	1268	1262	1226	1191	1178
40°	1186	1177	1133	1105	1100
42.5°	1096	1086	1038	1017	1017
45°	1002	990	943	928	931
47.5°	907	888	849	837	844
50°	813	786	760	744	749
52.5°	721	685	671	646	647
55°	633	587	579	550	549
57.5°	550	498	488	464	466
60°	475	419	401	394	401
62.5°	407	352	324	339	347
65°	348	298	261	297	305
67.5°	297	256	211	266	271
70°	253	222	175	240	245
72.5°	216	194	152	214	224
75°	187	169	139	189	205
77.5°	165	145	130	163	183
80°	140	121	117	138	156
82.5°	108	95	95	113	124
85°	75	70	65	82	84
87.5°	39	38	33	41	39
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



TEST NUMBER: 231P103
CATALOG NUMBER: GC8-232A

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)