

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: 104P237

Luminaire Tested: **2P2GX-332S38I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P237
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S38I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 24 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic L.O.B.F. = 89.5%

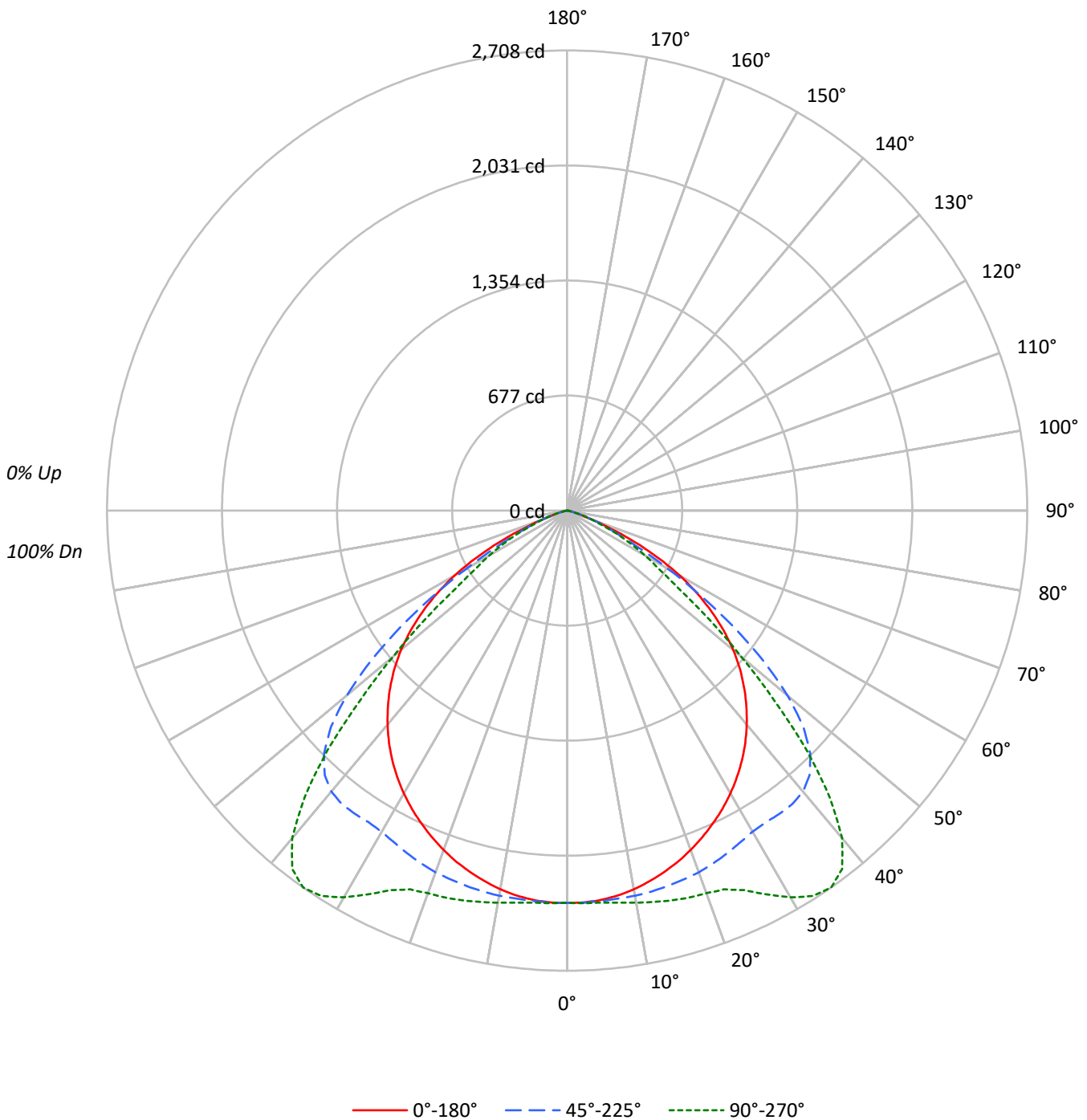
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6107.7 lumens
Efficiency: 72.7%
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.66 / 1.54
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 87
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: 104P237
CATALOG NUMBER: 2P2GX-332S38I

Luminous Intensity Polar Plot





TEST NUMBER: 104P237

CATALOG NUMBER: 2P2GX-332S38I

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	77	77	77	74	74	74	74	74	74	74	74	73														
1	81	78	75	73	79	76	74	72	73	71	70	70	69	68	68	67	66	66	66	66	66	66	64														
2	74	69	65	62	73	68	64	61	66	62	60	63	61	58	61	59	57	57	57	57	57	56															
3	69	62	57	53	67	61	56	52	59	55	51	57	53	50	55	52	50	50	50	50	50	48															
4	63	55	50	45	62	54	49	45	53	48	44	51	47	44	49	46	43	43	43	43	43	42															
5	58	50	44	39	57	49	43	39	47	43	39	46	42	38	45	41	38	38	38	38	37																
6	54	45	39	35	53	44	39	34	43	38	34	42	37	34	41	37	34	34	34	34	32																
7	50	41	35	31	49	40	34	30	39	34	30	38	33	30	37	33	30	30	30	30	28																
8	46	37	31	27	45	37	31	27	36	31	27	35	30	27	34	30	27	27	27	27	25																
9	43	34	28	25	42	34	28	24	33	28	24	32	27	24	31	27	24	24	24	24	23																
10	41	31	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	22	22	22	21																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3799	3799	3799
5°	3799	3809	3825
10°	3781	3845	3915
15°	3753	3896	4046
20°	3721	3966	4196
25°	3687	4041	4474
30°	3652	4146	4993
35°	3604	4375	5440
40°	3531	4638	5406
45°	3428	4708	4642
50°	3266	4339	3430
55°	2981	3437	2295
60°	2518	2258	1747
65°	1725	1281	1246
70°	731	765	731
75°	362	261	159
80°	208	133	104
85°	132	94	76



TEST NUMBER: 104P237

CATALOG NUMBER: 2P2GX-332S38I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	220.0	3.6	2.6	0°	2309	2309	2309	2309	2309	
10°-20°	647.1	10.6	7.7	5°	2300	2297	2306	2312	2316	218
20°-30°	1036.1	17.0	12.3	15°	2203	2219	2287	2352	2375	622
30°-40°	1383.8	22.7	16.5	25°	2031	2086	2226	2373	2464	936
40°-50°	1414.3	23.2	16.8	35°	1794	1902	2178	2557	2708	1121
50°-60°	946.4	15.5	11.3	45°	1473	1634	2023	2050	1995	1133
60°-70°	390.1	6.4	4.6	55°	1039	1219	1198	876	800	922
70°-80°	63.3	1.0	0.8	65°	443	494	329	316	320	441
80°-90°	6.6	0.1	0.1	75°	57	49	41	32	25	70
90°-100°	0.0	0.0	0.0	85°	7	6	5	4	4	9
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1903.2	31.2	22.7	165°	0	0	0	0	0	0
0°-40°	3287.0	53.8	39.1	175°	0	0	0	0	0	0
0°-60°	5647.7	92.5	67.2	180°	0	0	0	0	0	0
0°-90°	6107.7	100.0	72.7							
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°	6107.7	100.0	72.7							



TEST NUMBER: 104P237

CATALOG NUMBER: 2P2GX-332S38I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2309	2309	2309	2309	2309
2.5°	2308	2304	2309	2311	2312
5°	2300	2297	2306	2312	2316
7.5°	2285	2285	2303	2321	2327
10°	2263	2267	2301	2332	2343
12.5°	2235	2244	2296	2342	2359
15°	2203	2219	2287	2352	2375
17.5°	2167	2192	2277	2357	2388
20°	2125	2160	2265	2360	2396
22.5°	2080	2124	2247	2359	2413
25°	2031	2086	2226	2373	2464
27.5°	1979	2045	2203	2418	2546
30°	1922	2001	2182	2479	2628
32.5°	1860	1954	2175	2531	2689
35°	1794	1902	2178	2557	2708
37.5°	1722	1845	2177	2538	2658
40°	1644	1783	2159	2452	2517
42.5°	1562	1712	2112	2290	2287
45°	1473	1634	2023	2050	1995
47.5°	1379	1548	1885	1755	1649
50°	1276	1455	1695	1430	1340
52.5°	1161	1348	1459	1139	1056
55°	1039	1219	1198	876	800
57.5°	908	1067	927	651	637
60°	765	892	686	517	531
62.5°	608	696	482	414	422
65°	443	494	329	316	320
67.5°	283	314	240	227	214
70°	152	170	159	146	152
72.5°	88	82	88	96	102
75°	57	49	41	32	25
77.5°	36	31	22	18	17
80°	22	19	14	12	11
82.5°	13	11	9	8	7
85°	7	6	5	4	4
87.5°	3	2	2	2	2
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: 104P237

CATALOG NUMBER: 2P2GX-332S38I

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)