

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: 104P243

Luminaire Tested: **2P2GAX-232-W511PO/40**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P243
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GAX-232-W511PO/40
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 55 cell painted white parabolic louver and white splay.
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

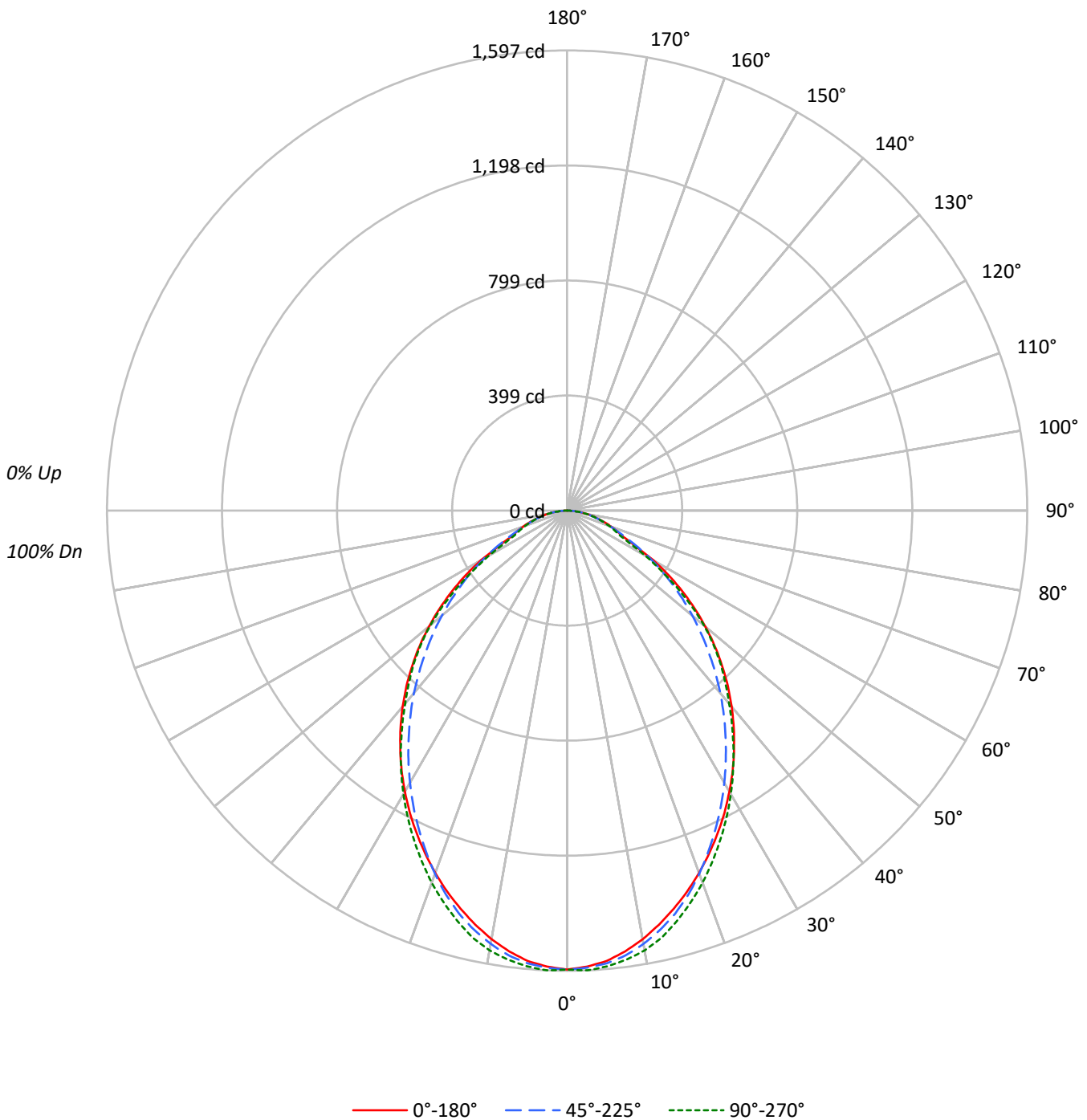
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3079.1 lumens
Efficiency: 55.0%
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.09 / 1.15
Luminous Opening: Rectangular (W 1.74' x L: 3.75' 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									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	50	30	10	0														
RCR																																						
0	65	65	65	65	64	64	64	64	61	61	61	58	58	58	56	56	56	55						55														
1	61	58	56	55	59	57	55	54	55	53	52	53	52	50	51	50	49	48						48														
2	56	52	49	46	55	51	48	45	49	47	44	47	45	43	46	44	42	41						41														
3	52	46	42	39	50	46	42	39	44	41	38	43	40	38	41	39	37	36						36														
4	48	42	37	34	46	41	37	34	40	36	33	38	35	33	37	35	33	31						31														
5	44	38	33	30	43	37	33	30	36	32	29	35	32	29	34	31	29	28						28														
6	41	34	30	27	40	34	30	26	33	29	26	32	29	26	31	28	26	25						25														
7	38	31	27	24	37	31	27	24	30	26	24	29	26	23	29	26	23	22						22														
8	36	29	25	22	35	28	24	21	28	24	21	27	24	21	27	23	21	20						20														
9	34	27	22	20	33	26	22	20	26	22	19	25	22	19	25	22	19	18						18														
10	32	25	21	18	31	24	21	18	24	20	18	23	20	18	23	20	18	17						17														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2628	2628	2628
5°	2598	2611	2630
10°	2529	2558	2596
15°	2442	2473	2517
20°	2349	2354	2412
25°	2250	2219	2292
30°	2145	2078	2164
35°	2034	1931	2026
40°	1912	1781	1884
45°	1773	1619	1757
50°	1607	1455	1591
55°	1401	1286	1334
60°	1138	1099	1033
65°	839	898	781
70°	781	757	743
75°	727	707	701
80°	665	655	655
85°	568	568	549



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	149.0	4.8	2.7	0°	1593	1593	1593	1593	1593	
10°-20°	407.1	13.2	7.3	5°	1569	1570	1577	1583	1588	148
20°-30°	567.0	18.4	10.1	15°	1430	1434	1448	1464	1474	402
30°-40°	613.4	19.9	11.0	25°	1236	1232	1219	1235	1259	569
40°-50°	556.2	18.1	9.9	35°	1010	989	959	971	1006	631
50°-60°	409.7	13.3	7.3	45°	760	727	694	709	753	585
60°-70°	224.2	7.3	4.0	55°	487	462	447	450	464	434
70°-80°	118.3	3.8	2.1	65°	215	220	230	205	200	228
80°-90°	34.4	1.1	0.6	75°	114	113	111	110	110	121
90°-100°	0.0	0.0	0.0	85°	30	30	30	30	29	33
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1123.0	36.5	20.1	165°	0	0	0	0	0	0
0°-40°	1736.4	56.4	31.0	175°	0	0	0	0	0	0
0°-60°	2702.3	87.8	48.3	180°	0	0	0	0	0	0
0°-90°	3079.1	100.0	55.0							
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°	3079.1	100.0	55.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593	1593	1593	1593	1593
2.5°	1584	1585	1588	1592	1597
5°	1569	1570	1577	1583	1588
7.5°	1543	1546	1557	1565	1572
10°	1510	1514	1527	1541	1550
12.5°	1472	1476	1491	1508	1518
15°	1430	1434	1448	1464	1474
17.5°	1386	1389	1398	1412	1426
20°	1338	1339	1341	1356	1374
22.5°	1288	1287	1281	1296	1318
25°	1236	1232	1219	1235	1259
27.5°	1182	1175	1156	1171	1199
30°	1126	1115	1091	1105	1136
32.5°	1069	1053	1025	1039	1072
35°	1010	989	959	971	1006
37.5°	950	924	893	904	940
40°	888	859	827	837	875
42.5°	825	794	760	771	813
45°	760	727	694	709	753
47.5°	694	661	630	648	689
50°	626	594	567	584	620
52.5°	557	528	506	518	544
55°	487	462	447	450	464
57.5°	417	398	389	381	385
60°	345	335	333	316	313
62.5°	267	274	279	258	242
65°	215	220	230	205	200
67.5°	187	185	189	177	176
70°	162	160	157	154	154
72.5°	137	136	133	132	132
75°	114	113	111	110	110
77.5°	92	91	89	89	89
80°	70	69	69	69	69
82.5°	50	49	49	49	49
85°	30	30	30	30	29
87.5°	13	13	13	12	13
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)