

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: 104P242

Luminaire Tested: **2P2GAX-232-W511P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P242
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GAX-232-W511P
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 55 cell painted white parabolic louver.
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

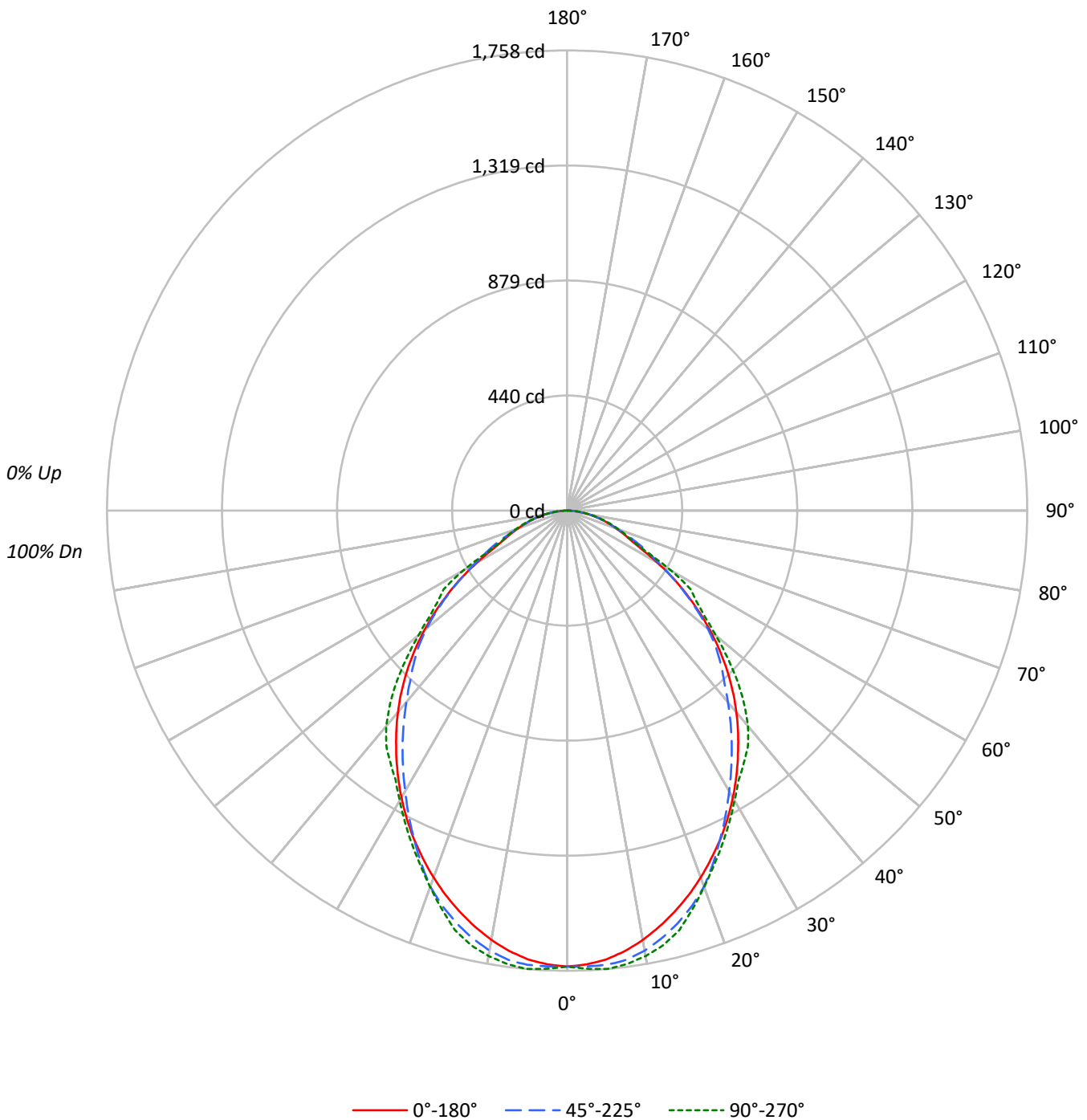
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3614.5 lumens
Efficiency: 64.5%
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.11 / 1.18
Luminous Opening: Rectangular (W 1.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	0
RCR																				
0	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	71	68	66	64	69	67	65	63	64	62	61		62	60	59		59	58	57	56
2	65	61	57	53	64	59	56	53	57	54	52		55	53	50		53	51	49	48
3	60	54	49	45	59	53	49	45	51	47	44		49	46	44		48	45	43	41
4	56	48	43	39	54	48	43	39	46	42	39		45	41	38		43	40	38	36
5	51	44	38	34	50	43	38	34	42	37	34		40	37	34		39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	30		36	32	30	28
7	44	36	31	27	43	36	31	27	35	30	27		34	30	27		33	29	27	25
8	42	33	28	25	41	33	28	24	32	28	24		31	27	24		31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22		29	25	22		28	25	22	21
10	37	28	24	20	36	28	23	20	28	23	20		27	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2874	2874	2874
5°	2850	2885	2911
10°	2791	2859	2895
15°	2709	2787	2832
20°	2619	2684	2686
25°	2521	2519	2556
30°	2412	2358	2436
35°	2292	2207	2370
40°	2166	2057	2315
45°	2016	1936	2146
50°	1830	1799	1902
55°	1602	1585	1731
60°	1310	1349	1518
65°	1046	1171	1077
70°	965	979	1008
75°	886	899	943
80°	807	826	864
85°	700	700	738



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	164.8	4.6	2.9	0°	1742	1742	1742	1742	1742	
10°-20°	456.9	12.6	8.2	5°	1721	1725	1742	1750	1758	163
20°-30°	640.3	17.7	11.4	15°	1586	1609	1632	1651	1658	446
30°-40°	706.8	19.6	12.6	25°	1385	1402	1384	1386	1404	637
40°-50°	660.7	18.3	11.8	35°	1138	1140	1096	1123	1177	711
50°-60°	500.4	13.8	8.9	45°	864	836	830	879	920	665
60°-70°	290.7	8.0	5.2	55°	557	541	551	557	602	497
70°-80°	151.0	4.2	2.7	65°	268	275	300	279	276	276
80°-90°	42.9	1.2	0.8	75°	139	139	141	145	148	148
90°-100°	0.0	0.0	0.0	85°	37	36	37	38	39	40
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°	1262.0	34.9	22.5	165°	0	0	0	0	0	0
0°-40°	1968.8	54.5	35.2	175°	0	0	0	0	0	0
0°-60°	3129.8	86.6	55.9	180°	0	0	0	0	0	0
0°-90°	3614.5	100.0	64.5							
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°	3614.5	100.0	64.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742	1742	1742	1742	1742
2.5°	1735	1735	1743	1745	1752
5°	1721	1725	1742	1750	1758
7.5°	1697	1707	1731	1740	1747
10°	1666	1682	1707	1719	1728
12.5°	1628	1649	1673	1690	1700
15°	1586	1609	1632	1651	1658
17.5°	1541	1564	1584	1592	1595
20°	1492	1514	1529	1522	1530
22.5°	1439	1460	1458	1453	1466
25°	1385	1402	1384	1386	1404
27.5°	1327	1342	1311	1318	1342
30°	1266	1280	1238	1252	1279
32.5°	1203	1212	1167	1184	1220
35°	1138	1140	1096	1123	1177
37.5°	1073	1064	1026	1073	1135
40°	1006	987	955	1023	1075
42.5°	937	911	889	955	1001
45°	864	836	830	879	920
47.5°	790	761	770	797	830
50°	713	687	701	711	741
52.5°	635	613	627	628	660
55°	557	541	551	557	602
57.5°	479	469	477	501	559
60°	397	399	409	450	460
62.5°	320	334	351	363	340
65°	268	275	300	279	276
67.5°	232	232	248	238	242
70°	200	199	203	206	209
72.5°	169	168	170	175	178
75°	139	139	141	145	148
77.5°	111	111	113	116	119
80°	85	85	87	89	91
82.5°	60	60	61	63	64
85°	37	36	37	38	39
87.5°	15	15	15	16	17
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)