

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: 220P148

Luminaire Tested: **2EP3GAX-232S36I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P148
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GAX-232S36I
Description: 2 X 4 Recessed Convertible Body Luminaire with an 18 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1%

Summary

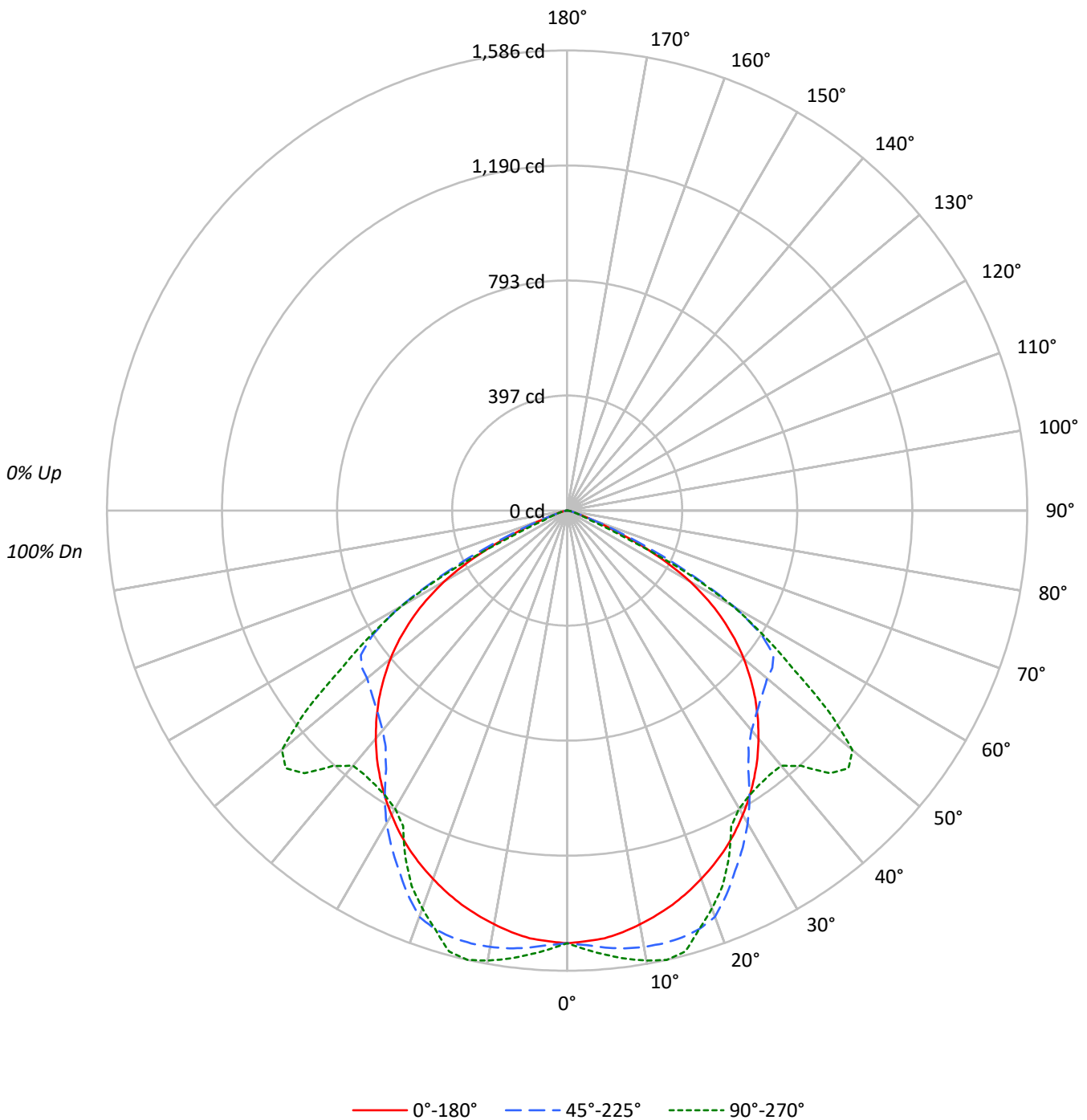
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3754.4 lumens
Efficiency: 67.0%
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.33
Luminous Opening: Rectangular (W 1.73' x L: 3.74' x H: 0')
CIE Type: Direct

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



TEST NUMBER: 220P148
CATALOG NUMBER: 2EP3GAX-232S36I

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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67	67	67	67	67	67	67														
1	74	72	69	67	72	70	68	66	67	66	64	65	63	62	62	61	60	59	59	59	59	59	59	59														
2	68	64	60	56	67	62	59	56	60	57	54	58	55	53	56	54	52	51	51	51	51	51	51	51														
3	63	56	52	48	61	55	51	47	53	50	46	52	48	46	50	47	45	44	44	44	44	44	44	44														
4	58	50	45	41	56	49	44	41	48	43	40	46	43	39	45	42	39	38	38	38	38	38	38	38														
5	53	45	39	35	52	44	39	35	43	38	35	42	38	34	41	37	34	33	33	33	33	33	33	33														
6	49	41	35	31	48	40	35	31	39	34	31	38	34	30	37	33	30	29	29	29	29	29	29	29														
7	46	37	31	27	44	36	31	27	35	31	27	34	30	27	34	30	27	25	25	25	25	25	25	25														
8	42	34	28	24	41	33	28	24	32	28	24	32	27	24	31	27	24	23	23	23	23	23	23	23														
9	40	31	26	22	39	31	25	22	30	25	22	29	25	22	28	25	22	20	20	20	20	20	20	20														
10	37	29	23	20	36	28	23	20	28	23	20	27	23	20	26	22	20	19	19	19	19	19	19	19														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2480	2480	2480
5°	2472	2525	2567
10°	2446	2580	2661
15°	2422	2625	2709
20°	2392	2638	2583
25°	2364	2515	2421
30°	2326	2392	2278
35°	2283	2210	2344
40°	2228	2148	2493
45°	2157	2207	3011
50°	2058	2329	3321
55°	1903	2518	2755
60°	1627	2223	2203
65°	1079	1295	850
70°	404	462	268
75°	186	174	174
80°	115	115	125
85°	76	95	95



TEST NUMBER: 220P148

CATALOG NUMBER: 2EP3GAX-232S36I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	144.4	3.8	2.6	0°	1491	1491	1491	1491	1491	
10°-20°	423.5	11.3	7.6	5°	1480	1491	1512	1527	1537	140
20°-30°	618.1	16.5	11.0	15°	1406	1460	1524	1565	1573	396
30°-40°	713.2	19.0	12.7	25°	1288	1376	1370	1334	1319	593
40°-50°	787.1	21.0	14.1	35°	1124	1209	1088	1108	1154	703
50°-60°	719.5	19.2	12.8	45°	917	925	938	1116	1280	706
60°-70°	306.7	8.2	5.5	55°	656	656	868	940	950	581
70°-80°	36.3	1.0	0.6	65°	274	327	329	283	216	272
80°-90°	5.6	0.1	0.1	75°	29	31	27	27	27	37
90°-100°	0.0	0.0	0.0	85°	4	4	5	4	5	5
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°	1186.0	31.6	21.2	165°	0	0	0	0	0	0
0°-40°	1899.2	50.6	33.9	175°	0	0	0	0	0	0
0°-60°	3405.8	90.7	60.8	180°	0	0	0	0	0	0
0°-90°	3754.4	100.0	67.0							
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°	3754.4	100.0	67.0							



TEST NUMBER: 220P148

CATALOG NUMBER: 2EP3GAX-232S36I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491	1491	1491	1491	1491
2.5°	1486	1490	1499	1506	1515
5°	1480	1491	1512	1527	1537
7.5°	1466	1489	1522	1544	1558
10°	1448	1483	1527	1559	1575
12.5°	1428	1474	1528	1569	1586
15°	1406	1460	1524	1565	1573
17.5°	1380	1443	1513	1520	1513
20°	1351	1425	1490	1459	1459
22.5°	1321	1403	1434	1402	1400
25°	1288	1376	1370	1334	1319
27.5°	1251	1345	1310	1245	1225
30°	1211	1309	1245	1166	1186
32.5°	1169	1265	1170	1131	1166
35°	1124	1209	1088	1108	1154
37.5°	1077	1140	1027	1092	1147
40°	1026	1066	989	1081	1148
42.5°	973	996	961	1080	1193
45°	917	925	938	1116	1280
47.5°	857	853	918	1168	1315
50°	795	782	900	1166	1283
52.5°	728	714	891	1099	1136
55°	656	656	868	940	950
57.5°	577	598	792	766	806
60°	489	528	668	619	662
62.5°	386	438	497	468	471
65°	274	327	329	283	216
67.5°	160	207	187	109	85
70°	83	104	95	58	55
72.5°	46	52	42	39	39
75°	29	31	27	27	27
77.5°	19	20	18	19	19
80°	12	13	12	13	13
82.5°	8	8	8	8	8
85°	4	4	5	4	5
87.5°	2	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: 220P148

CATALOG NUMBER: 2EP3GAX-232S36I

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)