

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: 220P226

Luminaire Tested: **2P2GAX-228S26I-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220P226
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GAX-228S26I-EBT1
Description: 2X4 EP2GX RECESSED LUMINAIRE WITH 12 CELL SILVER PARABOLIC
LOUVER, 86% PRE-PAINT HOUSING
Light Source: TWO LINEAR FLUORESCENT LAMPS, F28T5 28W - 2600 LUMENS EA
Ballast/Driver: -

Summary

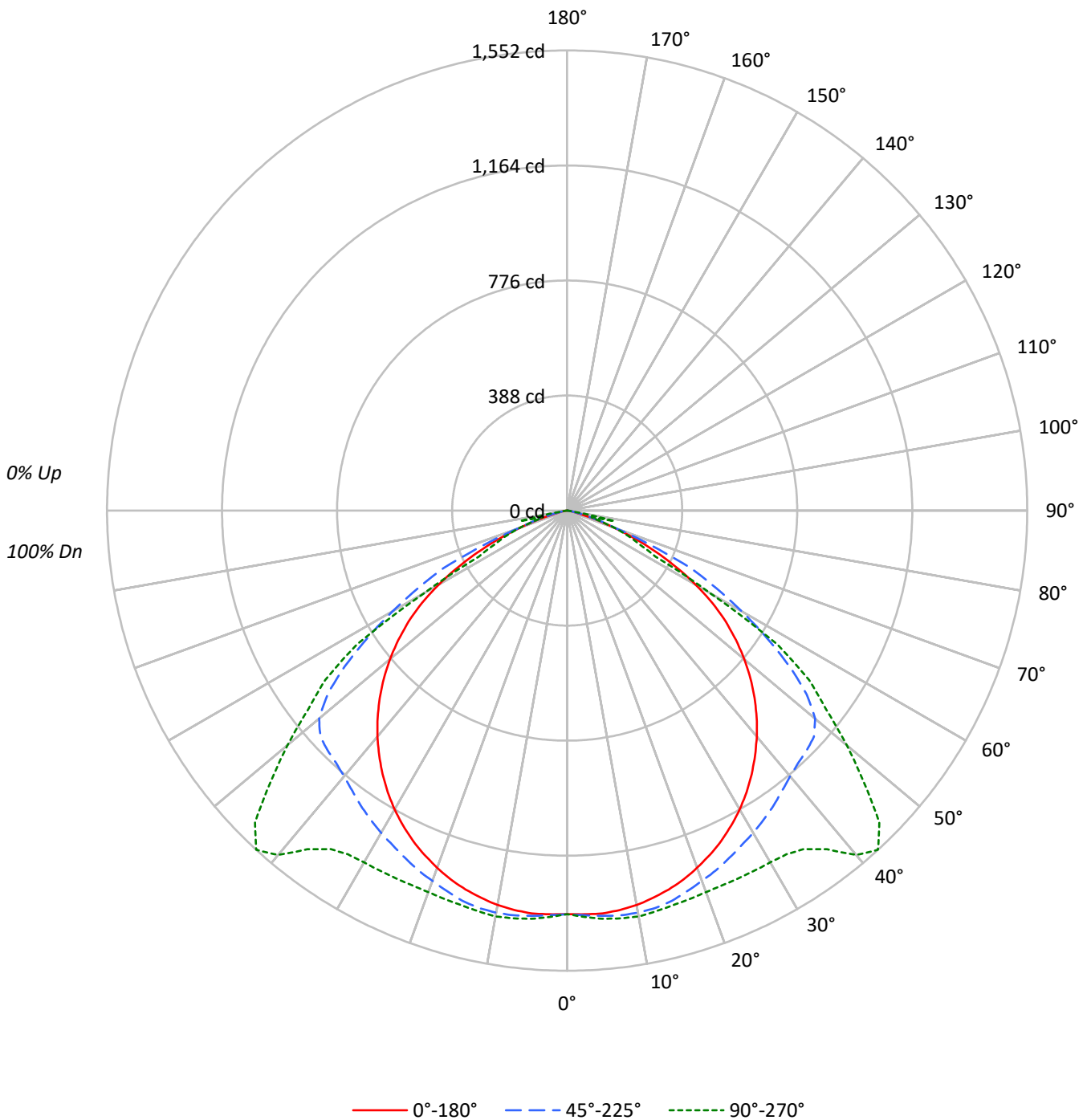
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4006.0 lumens
Efficiency: 77.0%
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.68 / 1.57
Luminous Opening: Rectangular (W 1.71' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77	77	77	77														
1	85	82	79	76	83	80	77	75	77	75	73	74	72	71	71	70	69	67	67	67	67	67	67	67														
2	78	72	67	63	76	71	66	63	68	64	61	66	63	60	63	61	59	57	57	57	57	57	57	57														
3	71	64	58	53	69	63	57	53	60	56	52	58	54	51	56	53	50	48	48	48	48	48	48	48														
4	65	57	50	45	64	56	50	45	54	48	44	52	47	44	50	46	43	42	42	42	42	42	42	42														
5	60	50	44	39	58	50	43	39	48	43	38	47	42	38	45	41	37	36	36	36	36	36	36	36														
6	55	45	39	34	54	45	38	34	43	38	33	42	37	33	41	36	33	31	31	31	31	31	31	31														
7	51	41	34	30	50	40	34	30	39	34	29	38	33	29	37	33	29	28	28	28	28	28	28	28														
8	48	37	31	26	46	37	31	26	36	30	26	35	30	26	34	29	26	24	24	24	24	24	24	24														
9	44	34	28	24	43	34	28	24	33	27	23	32	27	23	31	27	23	22	22	22	22	22	22	22														
10	41	31	25	21	40	31	25	21	30	25	21	30	25	21	29	24	21	20	20	20	20	20	20	20														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2287	2287	2287
5°	2301	2314	2331
10°	2305	2349	2372
15°	2301	2371	2397
20°	2292	2376	2448
25°	2280	2397	2536
30°	2258	2435	2658
35°	2226	2490	2857
40°	2182	2566	3325
45°	2124	2716	3538
50°	2039	2854	3218
55°	1913	2680	2918
60°	1687	2285	1878
65°	1320	1829	1073
70°	820	850	825
75°	305	435	552
80°	145	184	145
85°	77	116	96



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.0	3.3	2.5	0°	1361	1361	1361	1361	1361	
10°-20°	383.4	9.6	7.4	5°	1364	1366	1372	1376	1382	130
20°-30°	600.1	15.0	11.5	15°	1323	1341	1363	1372	1378	373
30°-40°	772.5	19.3	14.9	25°	1230	1261	1293	1345	1368	566
40°-50°	893.0	22.3	17.2	35°	1085	1127	1214	1328	1393	678
50°-60°	759.1	19.0	14.6	45°	894	954	1143	1412	1489	688
60°-70°	367.1	9.2	7.1	55°	653	745	915	953	996	579
70°-80°	92.0	2.3	1.8	65°	332	409	460	262	270	328
80°-90°	7.7	0.2	0.1	75°	47	71	67	78	85	69
90°-100°	0.0	0.0	0.0	85°	4	5	6	6	5	6
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°	1114.5	27.8	21.4	165°	0	0	0	0	0	0
0°-40°	1887.0	47.1	36.3	175°	0	0	0	0	0	0
0°-60°	3539.2	88.3	68.1	180°	0	0	0	0	0	0
0°-90°	4006.0	100.0	77.0							
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°	4006.0	100.0	77.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361	1361	1361	1361	1361
2.5°	1363	1364	1366	1366	1372
5°	1364	1366	1372	1376	1382
7.5°	1359	1366	1377	1382	1387
10°	1351	1362	1377	1385	1390
12.5°	1338	1353	1373	1381	1384
15°	1323	1341	1363	1372	1378
17.5°	1305	1325	1346	1366	1374
20°	1282	1306	1329	1357	1369
22.5°	1257	1285	1313	1351	1368
25°	1230	1261	1293	1345	1368
27.5°	1198	1232	1273	1341	1369
30°	1164	1198	1255	1335	1370
32.5°	1126	1163	1235	1329	1375
35°	1085	1127	1214	1328	1393
37.5°	1041	1087	1191	1340	1440
40°	995	1044	1170	1375	1516
42.5°	946	999	1154	1420	1552
45°	894	954	1143	1412	1489
47.5°	839	907	1129	1327	1358
50°	780	860	1092	1204	1231
52.5°	718	807	1019	1078	1100
55°	653	745	915	953	996
57.5°	581	673	797	849	841
60°	502	591	680	678	559
62.5°	417	501	567	419	336
65°	332	409	460	262	270
67.5°	247	312	304	213	222
70°	167	217	173	166	168
72.5°	102	135	116	122	111
75°	47	71	67	78	85
77.5°	24	27	36	76	163
80°	15	17	19	38	15
82.5°	9	10	10	10	10
85°	4	5	6	6	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



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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)