

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: 220P183

Luminaire Tested: **2EP3GX-232S38I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P183
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S38I-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a PAF Finish
and 24 Cell Semi-Specular Parabolic Louver.
Light Source: TWO - FO32./35K - 2800 LUMENS EA. - 32 WATTS EA.
Ballast/Driver: SYLVANIA QT2X32T8/120 ISN-SC

Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3741.9 lumens
Efficiency: 66.8%
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

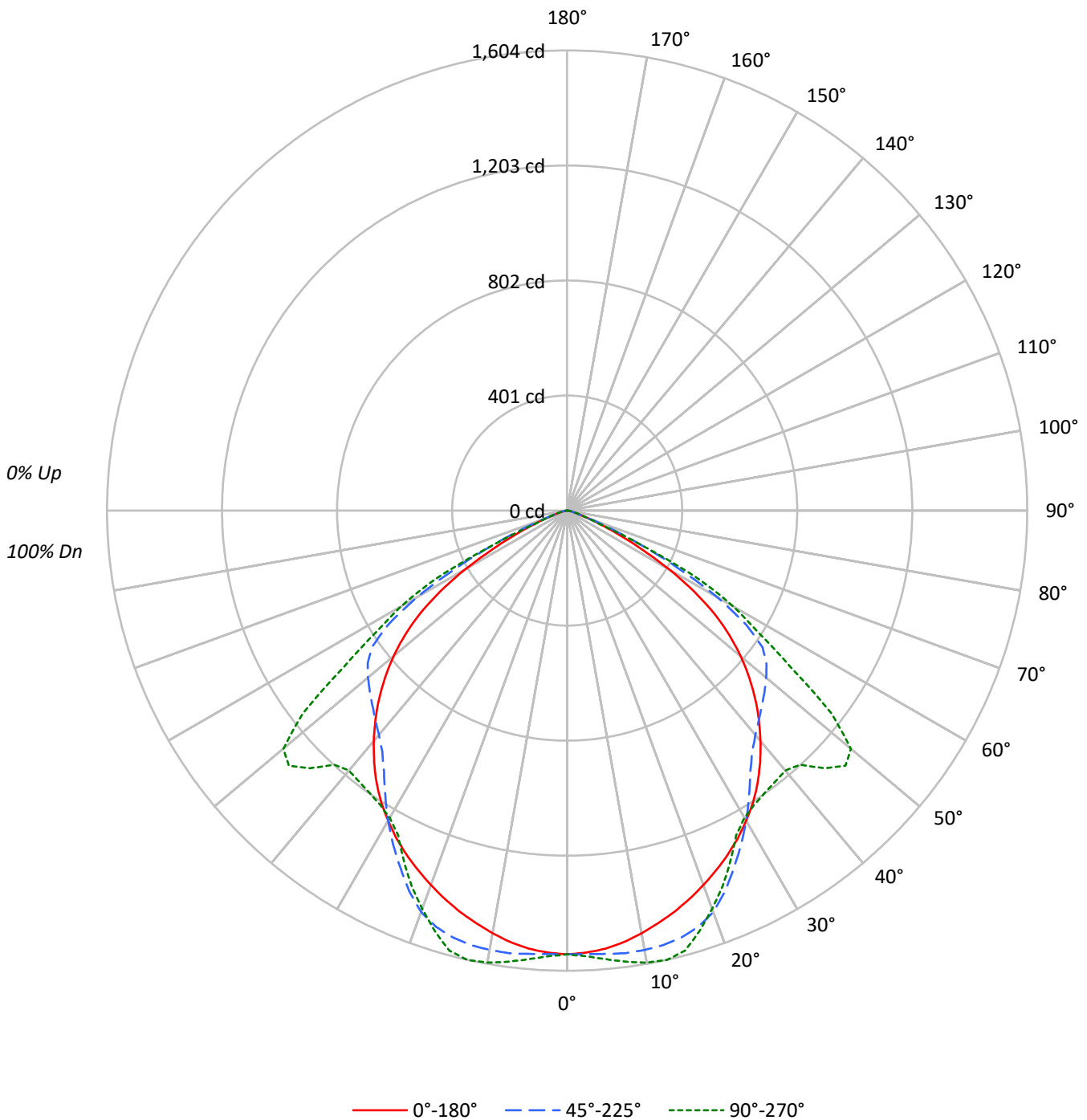
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	74	71	69	67	72	70	68	66	67	65	64	65	63	62	62	61	60	59
2	68	64	60	56	67	62	59	56	60	57	54	58	55	53	56	54	52	51
3	63	56	52	48	61	55	51	47	54	50	47	52	49	46	50	47	45	44
4	58	50	45	41	56	50	45	41	48	44	40	46	43	40	45	42	39	38
5	53	45	40	36	52	45	39	35	43	39	35	42	38	35	41	37	34	33
6	49	41	35	31	48	40	35	31	39	34	31	38	34	31	37	33	30	29
7	46	37	32	28	45	37	31	28	36	31	27	35	30	27	34	30	27	26
8	43	34	28	25	41	33	28	25	33	28	25	32	28	24	31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	21
10	37	29	24	20	36	28	23	20	28	23	20	27	23	20	27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2568	2568	2568
5°	2554	2584	2616
10°	2522	2621	2697
15°	2487	2647	2729
20°	2454	2630	2609
25°	2425	2518	2467
30°	2392	2392	2369
35°	2347	2255	2434
40°	2273	2212	2563
45°	2176	2254	2981
50°	2040	2340	3334
55°	1815	2405	2749
60°	1368	2005	2224
65°	789	1123	1163
70°	335	393	359
75°	173	186	212
80°	105	124	134
85°	76	76	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	148.1	4.0	2.6	0°	1547	1547	1547	1547	1547	
10°-20°	429.4	11.5	7.7	5°	1533	1538	1551	1562	1570	145
20°-30°	625.8	16.7	11.2	15°	1447	1483	1540	1576	1588	408
30°-40°	727.9	19.5	13.0	25°	1324	1383	1375	1348	1347	610
40°-50°	790.1	21.1	14.1	35°	1158	1202	1113	1148	1201	723
50°-60°	697.0	18.6	12.4	45°	927	914	960	1109	1270	713
60°-70°	281.3	7.5	5.0	55°	627	625	831	937	950	550
70°-80°	36.8	1.0	0.7	65°	201	240	286	312	296	211
80°-90°	5.4	0.1	0.1	75°	27	28	29	32	33	33
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	5
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1203.3	32.2	21.5							
0°-40°	1931.2	51.6	34.5							
0°-60°	3418.3	91.4	61.0							
0°-90°	3741.9	100.0	66.8							
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°	3741.9	100.0	66.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1547	1547	1547	1547	1547
2.5°	1542	1543	1547	1549	1555
5°	1533	1538	1551	1562	1570
7.5°	1517	1529	1556	1575	1586
10°	1496	1517	1555	1586	1600
12.5°	1472	1501	1551	1588	1604
15°	1447	1483	1540	1576	1588
17.5°	1419	1462	1521	1536	1536
20°	1389	1439	1489	1475	1477
22.5°	1357	1414	1437	1414	1416
25°	1324	1383	1375	1348	1347
27.5°	1288	1348	1313	1275	1276
30°	1248	1308	1248	1209	1236
32.5°	1206	1261	1180	1172	1215
35°	1158	1202	1113	1148	1201
37.5°	1105	1135	1059	1127	1191
40°	1049	1062	1021	1111	1183
42.5°	989	988	989	1099	1201
45°	927	914	960	1109	1270
47.5°	861	840	933	1146	1316
50°	790	768	906	1147	1291
52.5°	713	696	876	1083	1161
55°	627	625	831	937	950
57.5°	525	547	740	749	789
60°	412	453	604	599	670
62.5°	295	346	440	466	521
65°	201	240	286	312	296
67.5°	123	153	165	147	118
70°	69	86	81	72	74
72.5°	42	46	44	47	49
75°	27	28	29	32	33
77.5°	18	18	19	21	22
80°	11	11	13	14	14
82.5°	7	7	8	8	8
85°	4	4	4	4	4
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)