

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: ITL48361

Luminaire Tested: **EP3GAX2024-2U3S23I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48361
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX2024-2U3S23I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE
METAL PARABOLIC 6-CELL LOUVER.
Light Source: TWO 40-WATT T-12 U-LAMP FLUORESCENTS, G.E. F40CW/U/3, HORIZONTAL
POSITION.
Ballast/Driver: ADVANCE RIC-2S40-TP

Summary

Lumens per Lamp: 2725 (2 lamps)
Luminaire Lumens: 3443.6 lumens
Efficiency: 63.2%
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.38
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

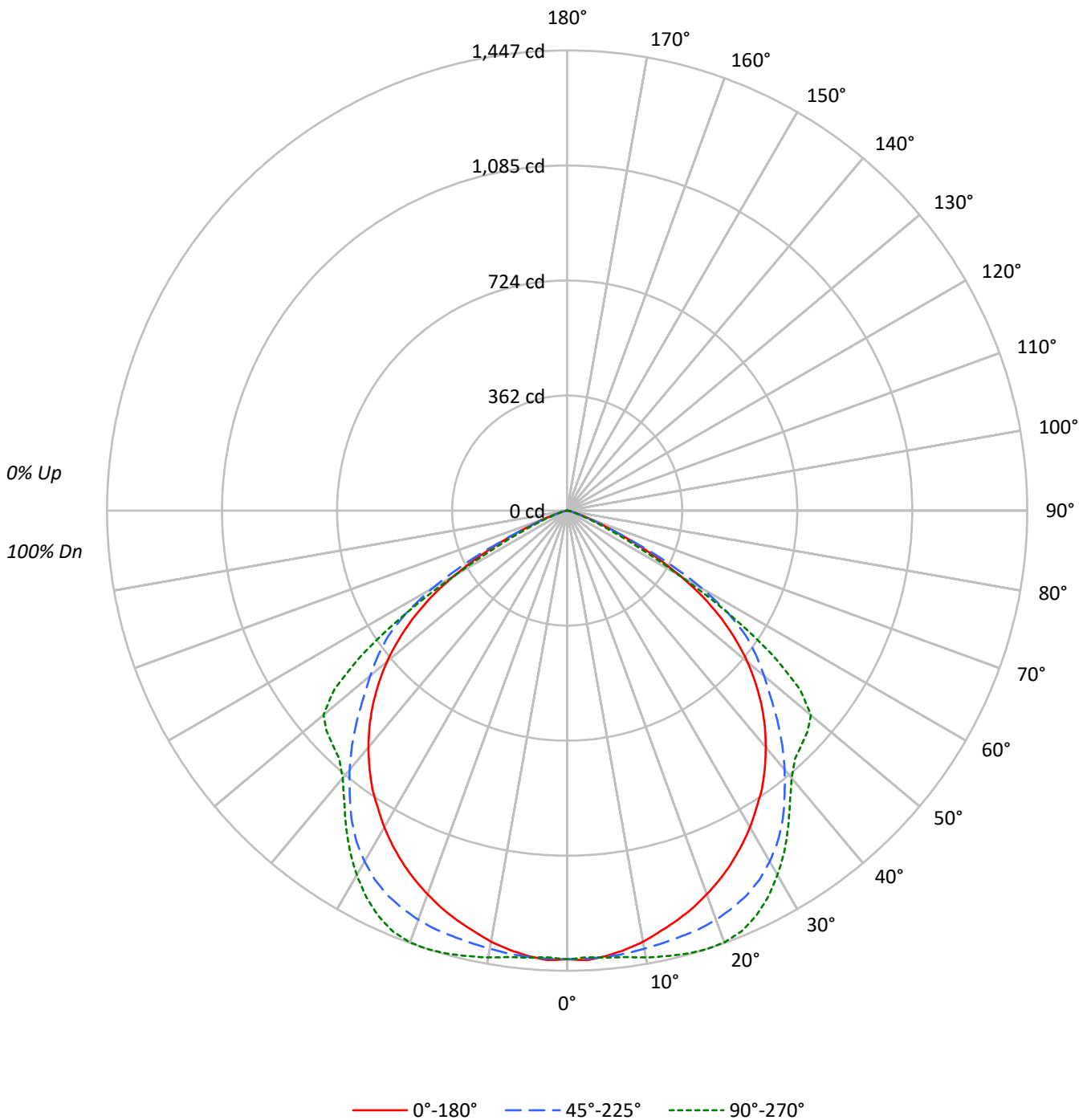
Input Watts (W): 68.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	70	68	66	64	69	66	64	63	64	62	61	61	60	59	59	58	57	56
2	65	60	57	54	63	59	56	53	57	54	52	55	53	51	53	51	50	48
3	60	54	49	46	58	53	49	45	51	48	45	49	46	44	48	45	43	42
4	55	48	43	39	54	47	43	39	46	42	39	44	41	38	43	40	38	36
5	51	43	38	34	49	43	38	34	41	37	34	40	36	33	39	36	33	32
6	47	39	34	30	46	39	34	30	37	33	30	36	33	30	35	32	29	28
7	44	36	30	27	43	35	30	27	34	30	26	33	29	26	32	29	26	25
8	41	33	27	24	40	32	27	24	31	27	24	31	27	24	30	26	23	22
9	38	30	25	22	37	29	25	22	29	24	21	28	24	21	27	24	21	20
10	36	28	23	20	35	27	23	20	27	22	19	26	22	19	25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6218	6218	6218
5°	6219	6233	6242
10°	6162	6260	6385
15°	6086	6323	6583
20°	6021	6420	6776
25°	5946	6491	6836
30°	5852	6483	6732
35°	5745	6364	6520
40°	5591	6121	6316
45°	5384	5827	6494
50°	5073	5539	6856
55°	4556	5270	6008
60°	3631	4327	3587
65°	2179	2336	1679
70°	979	812	657
75°	341	341	358
80°	178	203	228
85°	101	101	101



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	134.2	3.9	2.5	0°	1411	1411	1411	1411	1411	
10°-20°	392.3	11.4	7.2	5°	1406	1406	1409	1411	1411	133
20°-30°	608.5	17.7	11.2	15°	1334	1348	1386	1427	1443	376
30°-40°	724.1	21.0	13.3	25°	1223	1261	1335	1382	1406	563
40°-50°	731.8	21.2	13.4	35°	1068	1127	1183	1191	1212	667
50°-60°	602.1	17.5	11.0	45°	864	926	935	975	1042	664
60°-70°	219.1	6.4	4.0	55°	593	638	686	761	782	523
70°-80°	28.0	0.8	0.5	65°	209	233	224	169	161	219
80°-90°	3.5	0.1	0.1	75°	20	22	20	23	21	30
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	3
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°	1135.0	33.0	20.8							
0°-40°	1859.1	54.0	34.1							
0°-60°	3193.0	92.7	58.6							
0°-90°	3443.6	100.0	63.2							
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°	3443.6	100.0	63.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411	1411	1411	1411	1411
2.5°	1415	1412	1410	1408	1406
5°	1406	1406	1409	1411	1411
7.5°	1393	1394	1405	1415	1416
10°	1377	1382	1399	1420	1427
12.5°	1355	1365	1393	1422	1435
15°	1334	1348	1386	1427	1443
17.5°	1311	1329	1380	1426	1447
20°	1284	1308	1369	1420	1445
22.5°	1255	1286	1354	1407	1432
25°	1223	1261	1335	1382	1406
27.5°	1188	1232	1309	1347	1369
30°	1150	1202	1274	1302	1323
32.5°	1108	1167	1233	1249	1271
35°	1068	1127	1183	1191	1212
37.5°	1021	1083	1123	1128	1151
40°	972	1035	1064	1067	1098
42.5°	920	984	1001	1013	1060
45°	864	926	935	975	1042
47.5°	804	862	867	947	1026
50°	740	794	808	915	1000
52.5°	669	718	750	863	922
55°	593	638	686	761	782
57.5°	507	547	600	613	601
60°	412	445	491	440	407
62.5°	310	339	361	282	256
65°	209	233	224	169	161
67.5°	128	142	121	99	92
70°	76	81	63	54	51
72.5°	39	41	34	33	32
75°	20	22	20	23	21
77.5°	12	12	12	14	14
80°	7	8	8	9	9
82.5°	4	4	5	5	5
85°	2	2	2	2	2
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)