

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: ITL48363

Luminaire Tested: **EP3GAX2024-2U3S34I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48363
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX2024-2U3S34I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE
METAL PARABOLIC 12-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: 2930.2 lumens
Efficiency: 53.8%
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.38 / 1.38
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

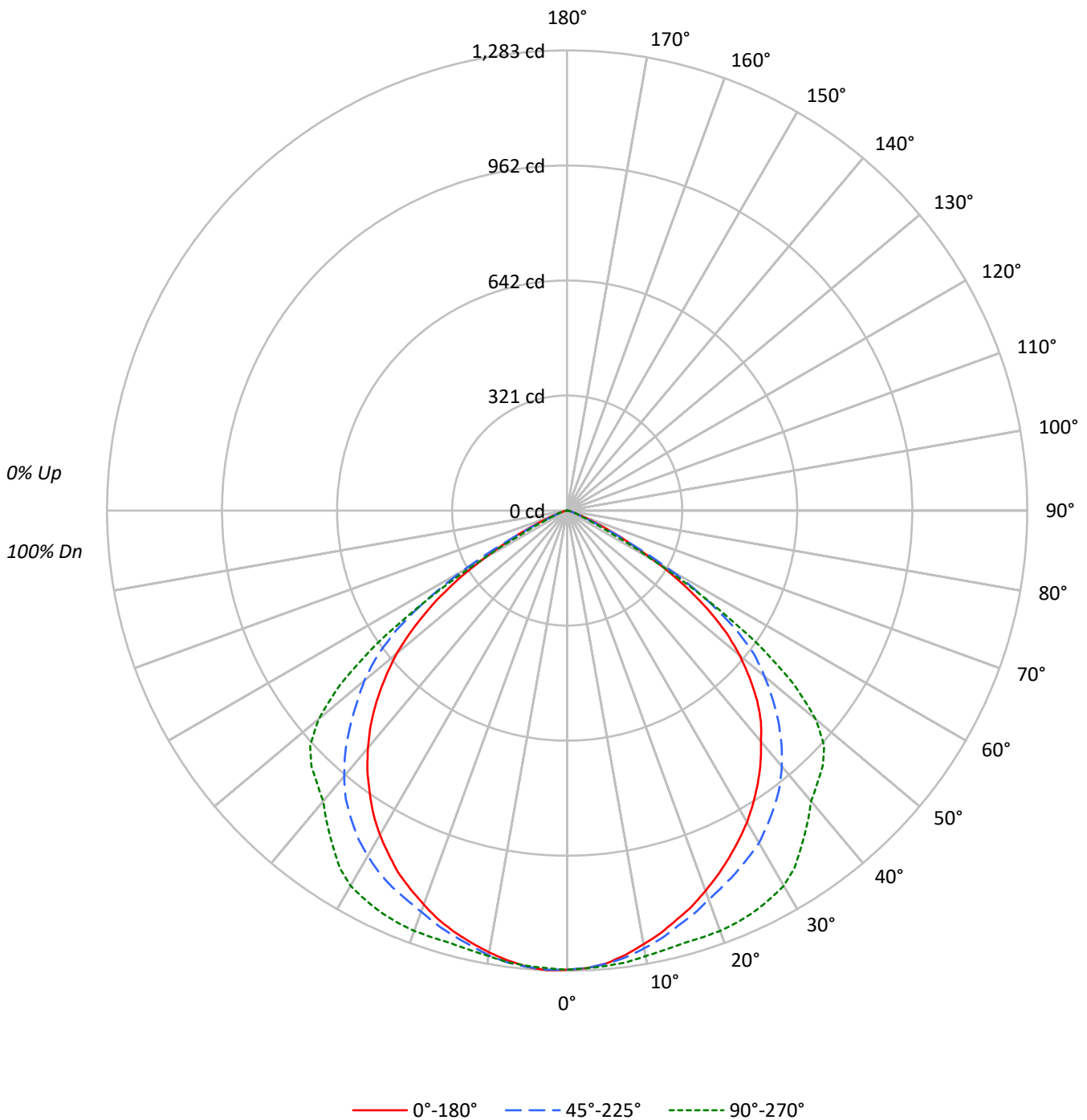
Input Watts (W): 67.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	64	64	64	64	63	63	63	63	60	60	60	57	57	57	55	55	55	54						54														
1	60	58	56	54	58	57	55	54	54	53	52	52	51	50	50	50	49						48															
2	55	52	49	46	54	51	48	46	49	47	45	47	45	44	46	44	43						42															
3	51	46	43	40	50	46	42	39	44	41	39	43	40	38	41	39	37						36															
4	47	42	37	34	46	41	37	34	40	36	34	38	36	33	37	35	33						32															
5	44	37	33	30	43	37	33	30	36	32	29	35	32	29	34	31	29						28															
6	40	34	30	26	39	33	29	26	32	29	26	32	28	26	31	28	26						25															
7	38	31	27	23	37	30	26	23	30	26	23	29	26	23	28	25	23						22															
8	35	28	24	21	34	28	24	21	27	23	21	27	23	21	26	23	21						20															
9	33	26	22	19	32	26	22	19	25	21	19	24	21	19	24	21	19						18															
10	31	24	20	17	30	24	20	17	23	20	17	23	19	17	22	19	17						16															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5641	5641	5641
5°	5605	5636	5649
10°	5495	5643	5598
15°	5388	5698	5548
20°	5290	5848	5482
25°	5193	6000	5416
30°	5104	6147	5312
35°	4987	6133	5164
40°	4838	6086	4970
45°	4668	6282	4680
50°	4305	6197	4250
55°	3665	4986	3526
60°	2547	2441	2362
65°	1324	813	1262
70°	451	387	477
75°	204	204	238
80°	152	152	152
85°	101	101	101



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	120.8	4.1	2.2	0°	1280	1280	1280	1280	1280	
10°-20°	344.5	11.8	6.3	5°	1267	1268	1274	1277	1277	120
20°-30°	528.9	18.0	9.7	15°	1181	1198	1249	1227	1216	333
30°-40°	643.6	22.0	11.8	25°	1068	1114	1234	1157	1114	492
40°-50°	658.2	22.5	12.1	35°	927	1007	1140	1050	960	579
50°-60°	487.8	16.6	9.0	45°	749	833	1008	858	751	573
60°-70°	126.9	4.3	2.3	55°	477	569	649	581	459	419
70°-80°	17.2	0.6	0.3	65°	127	100	78	106	121	136
80°-90°	2.5	0.1	0.0	75°	12	12	12	12	14	17
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°	994.1	33.9	18.2							
0°-40°	1637.7	55.9	30.0							
0°-60°	2783.6	95.0	51.1							
0°-90°	2930.2	100.0	53.8							
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°	2930.2	100.0	53.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1280	1280	1280	1280	1280	1280	1280	1280	1280
2.5°	1277	1276	1276	1277	1277	1279	1281	1282	1283
5°	1267	1264	1268	1273	1274	1277	1277	1277	1277
7.5°	1249	1249	1256	1264	1270	1274	1271	1267	1265
10°	1228	1229	1239	1254	1261	1263	1259	1254	1251
12.5°	1206	1208	1221	1239	1255	1254	1242	1236	1234
15°	1181	1187	1198	1226	1249	1246	1227	1220	1216
17.5°	1157	1164	1178	1215	1248	1236	1210	1198	1195
20°	1128	1134	1154	1206	1247	1229	1190	1172	1169
22.5°	1099	1105	1134	1195	1242	1222	1173	1145	1142
25°	1068	1076	1114	1181	1234	1210	1157	1117	1114
27.5°	1036	1044	1092	1164	1222	1193	1137	1084	1079
30°	1003	1010	1070	1141	1208	1171	1112	1051	1044
32.5°	966	973	1039	1116	1180	1147	1084	1016	1005
35°	927	939	1007	1080	1140	1109	1050	974	960
37.5°	886	903	973	1035	1100	1065	1014	933	915
40°	841	861	931	985	1058	1016	967	886	864
42.5°	800	819	885	946	1032	974	916	838	811
45°	749	773	833	909	1008	937	858	787	751
47.5°	690	723	777	869	972	900	796	728	686
50°	628	660	718	813	904	843	738	661	620
52.5°	559	591	656	727	799	751	669	587	542
55°	477	507	569	605	649	626	581	503	459
57.5°	385	413	457	454	460	465	466	406	368
60°	289	313	334	296	277	301	336	301	268
62.5°	197	215	199	158	146	156	205	205	188
65°	127	134	100	83	78	85	106	129	121
67.5°	70	79	52	49	47	51	52	76	72
70°	35	39	31	30	30	31	31	39	37
72.5°	23	25	21	23	23	23	21	25	25
75°	12	14	12	12	12	12	12	14	14
77.5°	10	10	10	10	10	10	10	10	10
80°	6	6	6	6	6	6	6	6	6
82.5°	4	4	4	4	4	4	4	4	4
85°	2	2	2	2	2	2	2	2	2
87.5°	2	0	0	0	0	0	0	0	2
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)