

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: ITL48362

Luminaire Tested: **EP3GAX2024-2U3S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48362
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX2024-2U3S33I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE
METAL PARABOLIC 9-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: 3045.4 lumens
Efficiency: 55.9%
Efficacy: 44.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.4
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

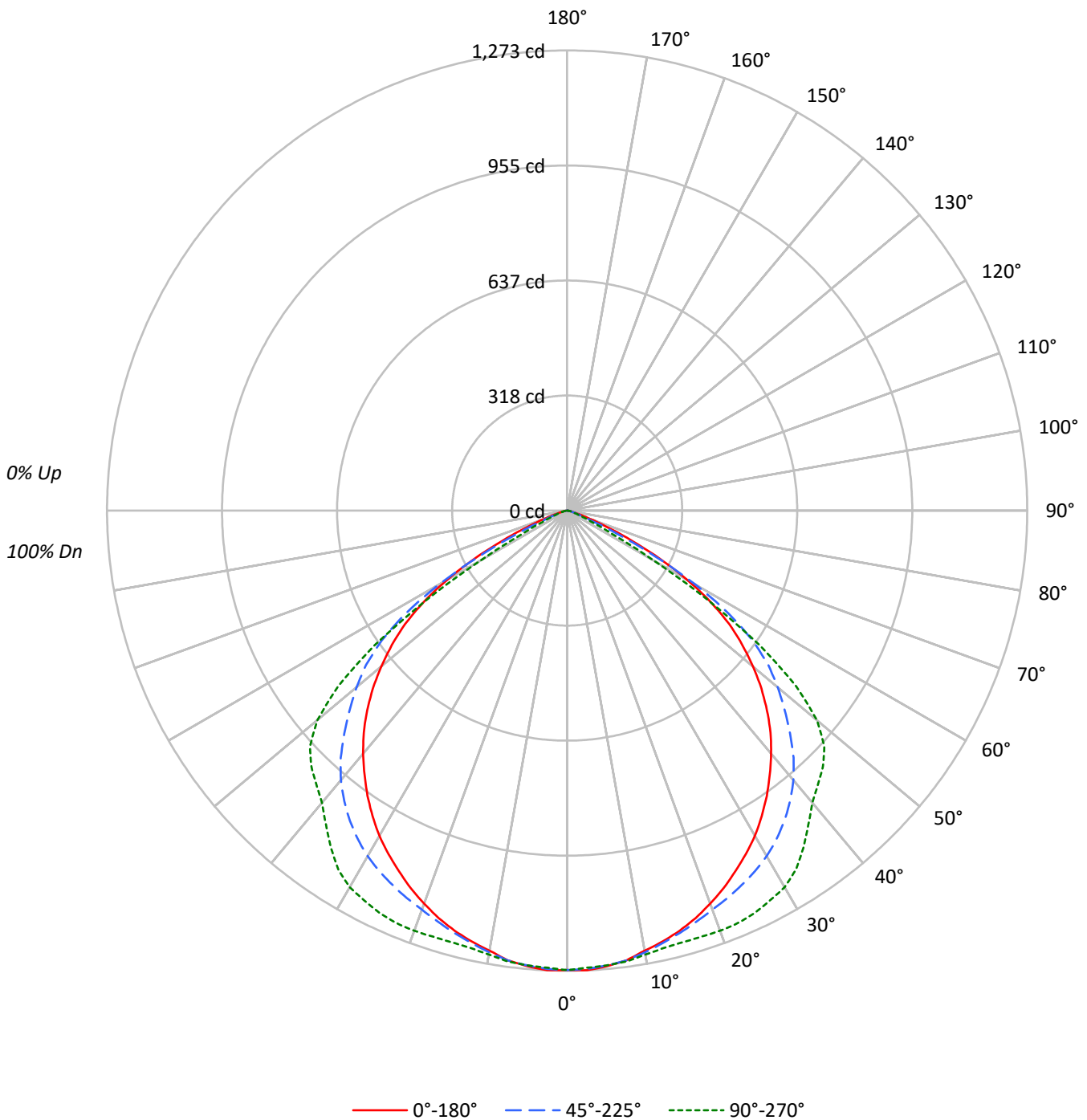
Input Watts (W): 68.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	67	67	67	65	65	65	65	62	62	62		59	59	59		57	57	57	56
1	62	60	58	56	61	59	57	55	56	55	54		54	53	52		52	51	51	50
2	57	54	50	48	56	52	50	47	51	48	46		49	47	45		47	46	44	43
3	53	48	44	41	52	47	43	40	45	42	40		44	41	39		42	40	38	37
4	49	43	38	35	47	42	38	35	41	37	34		39	36	34		38	36	34	32
5	45	38	34	31	44	38	34	30	37	33	30		36	32	30		35	32	29	28
6	42	35	30	27	41	34	30	27	33	29	27		32	29	26		32	28	26	25
7	39	32	27	24	38	31	27	24	30	26	24		30	26	23		29	26	23	22
8	36	29	24	21	35	28	24	21	28	24	21		27	24	21		26	23	21	20
9	34	26	22	19	33	26	22	19	26	22	19		25	21	19		24	21	19	18
10	31	24	20	17	31	24	20	17	24	20	17		23	20	17		23	19	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5601	5601	5601
5°	5596	5587	5587
10°	5531	5553	5580
15°	5488	5516	5639
20°	5426	5510	5801
25°	5353	5558	5971
30°	5287	5618	6121
35°	5180	5638	6127
40°	5051	5603	6069
45°	4873	5434	6238
50°	4600	5210	6184
55°	4202	4809	5001
60°	3384	3613	2432
65°	2065	1616	792
70°	876	477	399
75°	323	272	238
80°	203	203	152
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°	120.0	3.9	2.2	0°	1271	1271	1271	1271	1271	
10°-20°	343.4	11.3	6.3	5°	1265	1264	1263	1264	1263	120
20°-30°	531.6	17.5	9.8	15°	1203	1202	1209	1227	1236	339
30°-40°	652.6	21.4	12.0	25°	1101	1105	1143	1198	1228	508
40°-50°	675.5	22.2	12.4	35°	963	974	1048	1108	1139	602
50°-60°	530.9	17.4	9.7	45°	782	811	872	937	1001	602
60°-70°	166.5	5.5	3.1	55°	547	576	626	646	651	481
70°-80°	21.8	0.7	0.4	65°	198	205	155	92	76	205
80°-90°	3.1	0.1	0.1	75°	19	19	16	15	14	28
90°-100°	0.0	0.0	0.0	85°	2	3	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°	995.0	32.7	18.3							
0°-40°	1647.6	54.1	30.2							
0°-60°	2854.0	93.7	52.4							
0°-90°	3045.4	100.0	55.9							
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°	3045.4	100.0	55.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271	1271	1271	1271	1271
2.5°	1273	1270	1269	1268	1266
5°	1265	1264	1263	1264	1263
7.5°	1255	1253	1255	1258	1258
10°	1236	1237	1241	1246	1247
12.5°	1221	1221	1225	1235	1239
15°	1203	1202	1209	1227	1236
17.5°	1182	1183	1192	1219	1236
20°	1157	1159	1175	1215	1237
22.5°	1131	1133	1160	1209	1235
25°	1101	1105	1143	1198	1228
27.5°	1071	1076	1125	1183	1216
30°	1039	1044	1104	1165	1203
32.5°	1002	1011	1078	1142	1178
35°	963	974	1048	1108	1139
37.5°	921	937	1013	1063	1096
40°	878	898	974	1016	1055
42.5°	833	857	927	974	1027
45°	782	811	872	937	1001
47.5°	729	759	816	899	965
50°	671	706	760	847	902
52.5°	611	644	701	765	799
55°	547	576	626	646	651
57.5°	471	495	530	492	465
60°	384	405	410	323	276
62.5°	290	305	278	175	143
65°	198	205	155	92	76
67.5°	119	122	70	52	45
70°	68	67	37	33	31
72.5°	36	34	24	21	20
75°	19	19	16	15	14
77.5°	13	13	12	12	12
80°	8	8	8	8	6
82.5°	4	5	4	4	4
85°	2	3	2	2	2
87.5°	2	2	0	0	2
90°	0	0	0	0	0

(END OF REPORT)