

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: ITL48346

Luminaire Tested: **2EP3GX-2U1-5/8S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48346
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-2U1-5/8S33I
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 31-WATT T-8 U-LAMP FLUORESCENTS, SYLVANIA FBO31/41K/1.75,
HORIZONTAL POSITION.
Ballast/Driver: MAGNETEK B332I120RH

Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3396.9 lumens
Efficiency: 60.7%
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.4
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

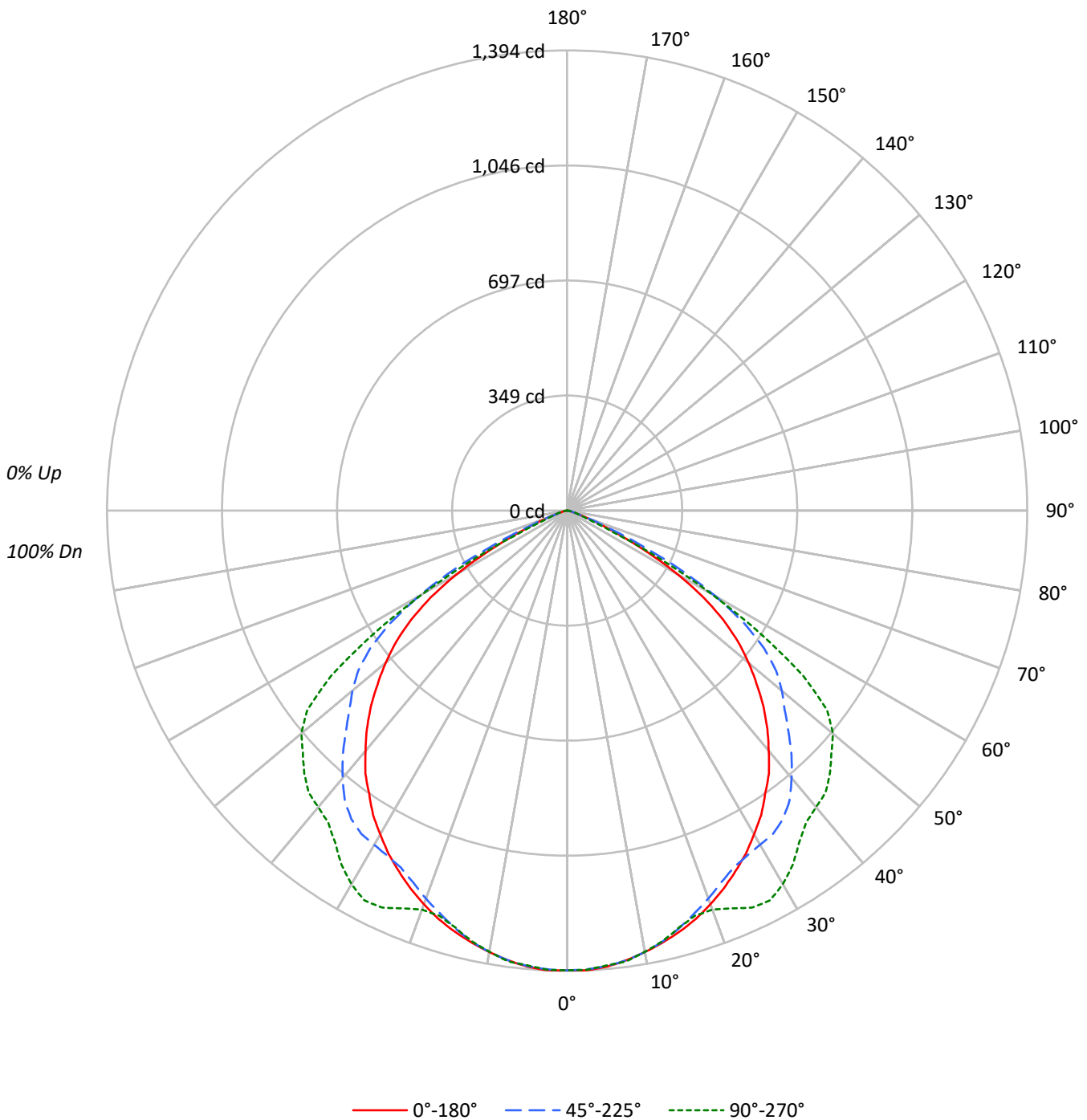
Input Watts (W): 59.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	72	72	72	71	71	71	71	67	67	67		65	65	65		62	62	62	61
1	67	65	63	61	66	64	62	60	61	60	58		59	58	56		57	56	55	54
2	62	58	54	51	61	57	53	51	55	52	50		53	50	48		51	49	47	46
3	57	51	47	44	56	51	47	43	49	45	43		47	44	42		46	43	41	40
4	52	46	41	37	51	45	41	37	44	40	37		42	39	36		41	38	36	35
5	48	41	36	33	47	41	36	32	39	35	32		38	35	32		37	34	31	30
6	45	37	32	29	44	37	32	28	36	31	28		35	31	28		34	30	28	27
7	42	34	29	25	40	33	29	25	32	28	25		32	28	25		31	27	25	23
8	39	31	26	23	38	30	26	22	30	25	22		29	25	22		28	25	22	21
9	36	28	23	20	35	28	23	20	27	23	20		27	23	20		26	22	20	19
10	34	26	21	18	33	26	21	18	25	21	18		25	21	18		24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4940	4940	4940
5°	4938	4930	4923
10°	4890	4890	4887
15°	4846	4810	4802
20°	4789	4721	4853
25°	4719	4668	5193
30°	4636	4787	5352
35°	4528	4935	5308
40°	4398	4898	5430
45°	4218	4755	5647
50°	3961	4684	5799
55°	3568	4501	5404
60°	2759	3681	3589
65°	1485	1997	1225
70°	601	601	477
75°	274	274	315
80°	163	163	225
85°	81	81	163



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.4	3.9	2.3	0°	1393	1393	1393	1393	1393	
10°-20°	370.5	10.9	6.6	5°	1387	1385	1385	1387	1383	131
20°-30°	569.6	16.8	10.2	15°	1320	1318	1310	1309	1308	372
30°-40°	704.7	20.7	12.6	25°	1206	1198	1193	1278	1327	556
40°-50°	740.4	21.8	13.2	35°	1046	1033	1140	1199	1226	655
50°-60°	628.0	18.5	11.2	45°	841	858	948	1057	1126	647
60°-70°	222.4	6.5	4.0	55°	577	625	728	823	874	507
70°-80°	26.4	0.8	0.5	65°	177	220	238	181	146	191
80°-90°	3.5	0.1	0.1	75°	20	22	20	22	23	25
90°-100°	0.0	0.0	0.0	85°	2	2	2	4	4	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°	1071.5	31.5	19.1							
0°-40°	1776.2	52.3	31.7							
0°-60°	3144.6	92.6	56.2							
0°-90°	3396.9	100.0	60.7							
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°	3396.9	100.0	60.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393	1393	1393	1393	1393
2.5°	1394	1391	1391	1392	1392
5°	1387	1385	1385	1387	1383
7.5°	1374	1373	1374	1376	1377
10°	1358	1359	1358	1358	1357
12.5°	1340	1340	1337	1335	1336
15°	1320	1318	1310	1309	1308
17.5°	1297	1293	1280	1280	1287
20°	1269	1265	1251	1262	1286
22.5°	1239	1233	1219	1265	1304
25°	1206	1198	1193	1278	1327
27.5°	1172	1160	1179	1288	1331
30°	1132	1117	1169	1274	1307
32.5°	1094	1080	1161	1244	1272
35°	1046	1033	1140	1199	1226
37.5°	1004	990	1107	1151	1190
40°	950	944	1058	1108	1173
42.5°	898	904	1006	1086	1159
45°	841	858	948	1057	1126
47.5°	779	809	894	1016	1086
50°	718	758	849	966	1051
52.5°	653	697	798	909	992
55°	577	625	728	823	874
57.5°	490	539	635	680	695
60°	389	439	519	507	506
62.5°	277	331	383	335	316
65°	177	220	238	181	146
67.5°	101	128	122	80	68
70°	58	68	58	47	46
72.5°	30	36	30	31	32
75°	20	22	20	22	23
77.5°	12	14	14	15	17
80°	8	8	8	10	11
82.5°	4	6	6	6	6
85°	2	2	2	4	4
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)