

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: 14320

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14320
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U1-5/8S33I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR AND 4" DEEP 9 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER

Light Source: TWO SYLVANIA 31 WATT 1-5/8 U-LAMPS

FB031/835. LUMEN RATING = 2725 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2725 (2 lamps)
Luminaire Lumens: 3140.5 lumens
Efficiency: 57.6%
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

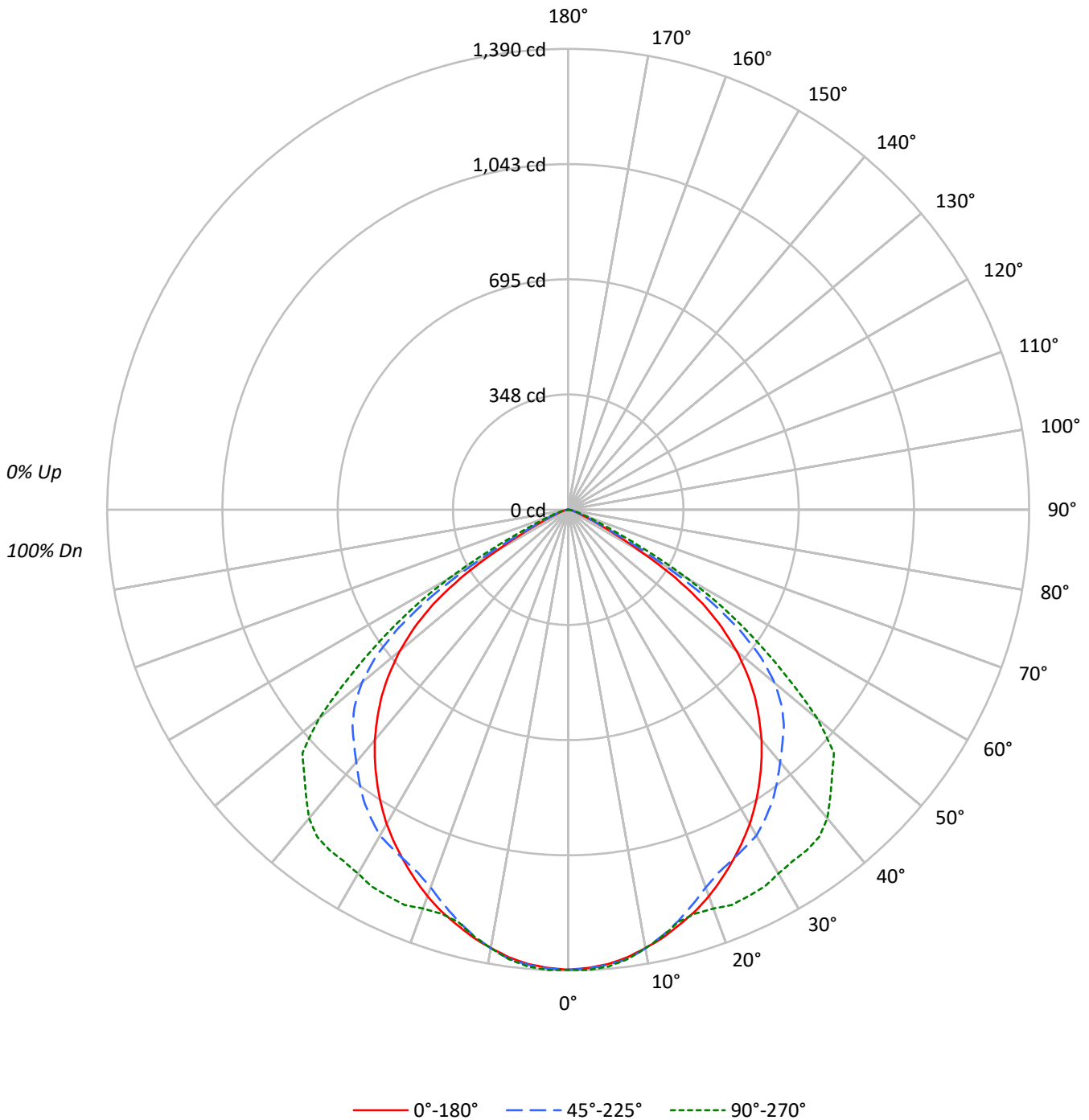
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69	69	69	69	67	67	67	67	64	64	64	61	61	61	59	59	59	58
1	64	62	60	58	63	61	59	57	58	57	56	56	55	54	54	53	52	51
2	59	55	52	49	58	54	51	49	52	50	48	51	48	47	49	47	46	45
3	55	49	45	42	53	49	45	42	47	44	41	45	43	41	44	42	40	39
4	50	44	40	37	49	44	40	36	42	39	36	41	38	35	40	37	35	34
5	47	40	35	32	45	39	35	32	38	34	31	37	34	31	36	33	31	30
6	43	36	31	28	42	36	31	28	35	31	28	34	30	28	33	30	27	26
7	40	33	28	25	39	32	28	25	32	28	25	31	27	25	30	27	24	23
8	37	30	25	22	36	30	25	22	29	25	22	28	25	22	28	24	22	21
9	35	28	23	20	34	27	23	20	27	23	20	26	22	20	25	22	20	19
10	33	25	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4877	4877	4877
5°	4854	4863	4881
10°	4791	4795	4794
15°	4716	4671	4680
20°	4641	4535	4788
25°	4540	4524	4988
30°	4442	4606	5143
35°	4311	4607	5381
40°	4161	4560	5576
45°	3951	4571	5595
50°	3619	4442	5364
55°	3039	3849	4275
60°	1795	2351	2918
65°	734	829	1257
70°	370	426	641
75°	257	281	398
80°	190	219	239
85°	93	149	109



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	130.4	4.2	2.4	0°	1388	1388	1388	1388	1388	
10°-20°	363.9	11.6	6.7	5°	1376	1374	1378	1382	1383	130
20°-30°	552.6	17.6	10.1	15°	1296	1291	1284	1284	1286	366
30°-40°	682.7	21.7	12.5	25°	1171	1152	1167	1244	1286	539
40°-50°	715.7	22.8	13.1	35°	1005	983	1074	1175	1254	628
50°-60°	523.6	16.7	9.6	45°	795	807	920	1043	1126	610
60°-70°	141.8	4.5	2.6	55°	496	531	628	635	698	428
70°-80°	25.4	0.8	0.5	65°	88	102	100	141	151	108
80°-90°	4.4	0.1	0.1	75°	19	18	21	24	29	21
90°-100°	0.0	0.0	0.0	85°	2	3	4	2	3	4
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°	1046.9	33.3	19.2							
0°-40°	1729.7	55.1	31.7							
0°-60°	2969.0	94.5	54.5							
0°-90°	3140.5	100.0	57.6							
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°	3140.5	100.0	57.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.6	1387.6	1387.6	1387.6	1387.6
2.5°	1383.3	1381.0	1384.9	1388.1	1389.5
5°	1375.9	1373.9	1378.3	1381.9	1383.3
7.5°	1361.8	1360.4	1367.0	1367.0	1367.4
10°	1342.3	1340.5	1343.4	1343.8	1343.2
12.5°	1322.1	1318.7	1315.9	1316.8	1317.3
15°	1296.0	1291.4	1283.8	1284.2	1286.1
17.5°	1270.6	1262.1	1248.3	1259.2	1277.2
20°	1240.9	1228.1	1212.5	1249.8	1280.1
22.5°	1206.7	1192.2	1184.6	1248.9	1290.0
25°	1170.8	1152.4	1166.6	1244.1	1286.2
27.5°	1133.6	1111.8	1150.6	1231.8	1281.5
30°	1094.5	1070.3	1135.0	1215.8	1267.3
32.5°	1051.3	1026.8	1105.2	1192.6	1257.9
35°	1004.8	983.3	1073.6	1175.2	1254.0
37.5°	956.9	941.4	1034.8	1162.5	1243.2
40°	906.9	899.4	993.8	1140.2	1215.3
42.5°	851.6	854.9	955.9	1097.2	1169.6
45°	794.8	806.7	919.6	1042.9	1125.6
47.5°	731.3	750.6	872.5	988.1	1086.8
50°	661.8	684.8	812.4	913.5	981.0
52.5°	584.3	614.0	733.6	787.3	836.0
55°	495.9	530.9	628.2	635.3	697.6
57.5°	384.9	424.6	494.0	499.8	561.2
60°	255.4	299.9	334.5	364.7	415.1
62.5°	153.4	181.3	190.3	240.0	262.7
65°	88.3	101.5	99.7	140.8	151.1
67.5°	53.4	59.0	61.5	82.1	92.4
70°	36.0	37.4	41.5	53.4	62.4
72.5°	26.0	27.5	29.3	36.3	42.5
75°	18.9	18.4	20.7	24.1	29.3
77.5°	13.7	13.7	15.1	15.5	19.3
80°	9.4	8.5	10.8	9.4	11.8
82.5°	6.0	6.2	6.0	6.2	6.2
85°	2.3	2.8	3.7	2.3	2.7
87.5°	2.3	2.8	2.3	0.9	1.4
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)