

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: 117P107

Luminaire Tested: **2GCAML-SS-2U6T8S66MI**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 117P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAML-SS-2U6T8S66MI
Description: 2 X 2 Recessed Air Supply Luminaire with a silver steel body and a 1.25" deep 36 cell specular low iridescent parabolic louver.
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

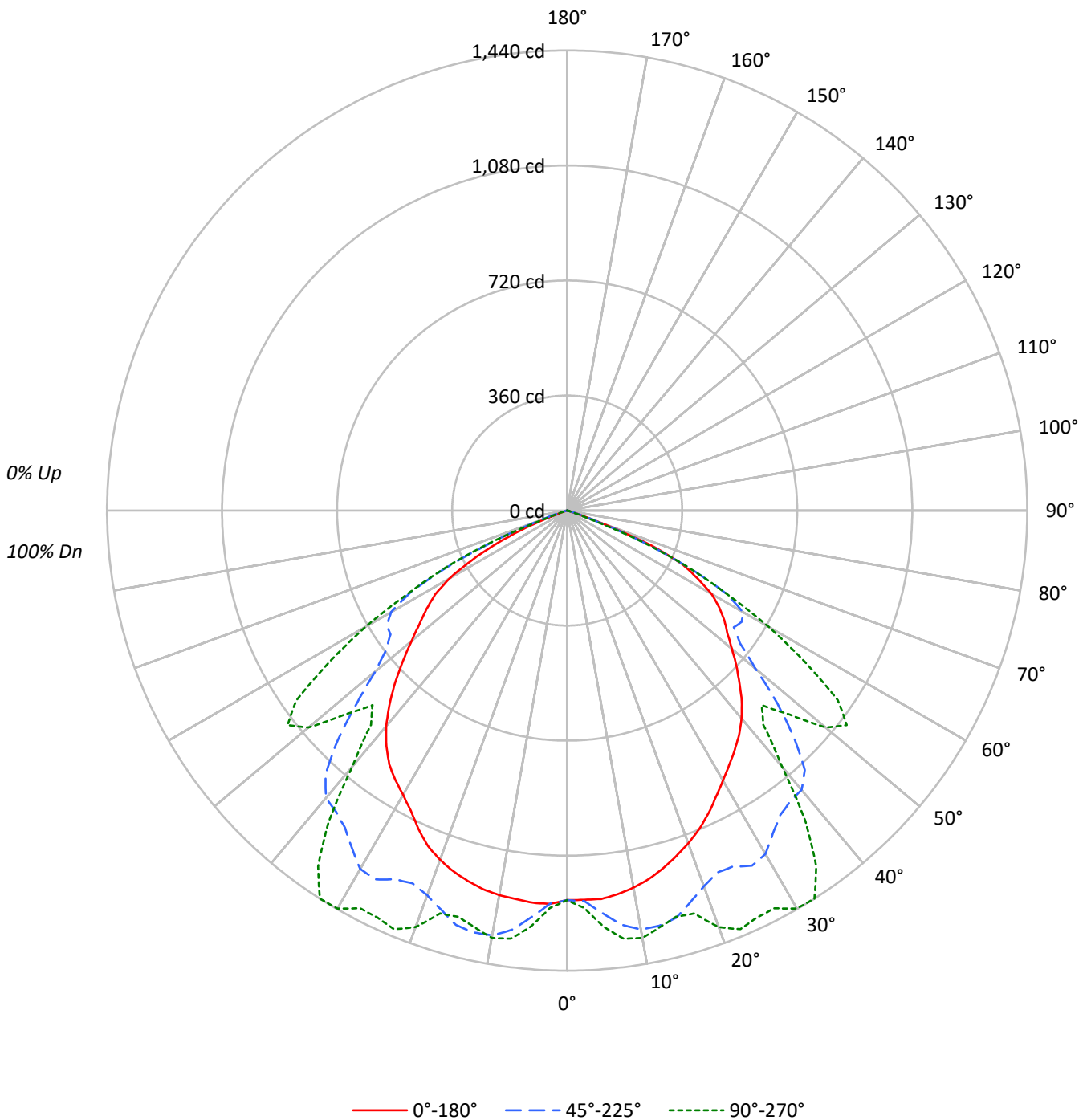
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3563.2 lumens
Efficiency: 68.5%
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.54 / 1.49
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 54.2
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	82	82	82	82	80	80	80	80	76	76	76		73	73	73		70	70	70	69
1	76	73	71	69	74	72	69	67	69	67	65		66	65	63		64	63	61	60
2	70	65	61	57	68	64	60	57	61	58	55		59	56	54		57	55	53	51
3	64	57	52	48	62	56	52	48	54	50	47		52	49	46		51	48	45	44
4	59	51	45	41	57	50	45	41	48	44	40		47	43	40		45	42	39	38
5	54	46	40	36	53	45	39	35	44	39	35		42	38	35		41	37	34	33
6	50	41	35	31	49	40	35	31	39	34	31		38	34	30		37	33	30	29
7	46	37	31	27	45	37	31	27	36	31	27		35	30	27		34	30	27	25
8	43	34	28	24	42	33	28	24	33	28	24		32	27	24		31	27	24	23
9	40	31	26	22	39	31	25	22	30	25	22		29	25	22		29	25	22	20
10	38	29	23	20	37	28	23	20	28	23	20		27	23	20		26	22	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4285	4285	4285
5°	4305	4611	4347
10°	4276	4847	4361
15°	4217	4789	4367
20°	4144	5188	4350
25°	4057	5449	4266
30°	3957	5836	4168
35°	3922	5831	4162
40°	3896	4799	4042
45°	3788	4280	3783
50°	3680	5774	3472
55°	3683	6336	3291
60°	3670	5132	2988
65°	3310	3435	1996
70°	1048	555	288
75°	95	95	68
80°	61	61	40
85°	40	40	40



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	122.5	3.4	2.4	0°	1219	1219	1219	1219	1219	
10°-20°	367.1	10.3	7.1	5°	1220	1264	1307	1277	1232	116
20°-30°	586.0	16.4	11.3	15°	1159	1319	1316	1343	1200	327
30°-40°	731.9	20.5	14.1	25°	1046	1229	1405	1273	1100	481
40°-50°	702.7	19.7	13.5	35°	914	1163	1359	1212	970	572
50°-60°	672.8	18.9	12.9	45°	762	1003	861	1015	761	589
60°-70°	359.4	10.1	6.9	55°	601	637	1034	675	537	536
70°-80°	19.0	0.5	0.4	65°	398	414	413	398	240	359
80°-90°	1.7	0.0	0.0	75°	7	7	7	7	5	21
90°-100°	0.0	0.0	0.0	85°	1	2	1	2	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1075.7	30.2	20.7	165°	0	0	0	0	0	0
0°-40°	1807.5	50.7	34.8	175°	0	0	0	0	0	0
0°-60°	3183.1	89.3	61.2	180°	0	0	0	0	0	0
0°-90°	3563.2	100.0	68.5							
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°	3563.2	100.0	68.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1219	1219	1219	1219	1219	1219	1219	1219	1219
2.5°	1219	1218	1223	1237	1245	1242	1231	1231	1232
5°	1220	1225	1264	1297	1307	1304	1277	1242	1232
7.5°	1211	1236	1307	1345	1351	1353	1323	1261	1226
10°	1198	1251	1331	1361	1358	1367	1350	1283	1222
12.5°	1181	1261	1331	1352	1336	1358	1352	1300	1214
15°	1159	1261	1319	1324	1316	1328	1343	1308	1200
17.5°	1134	1253	1284	1310	1322	1315	1310	1307	1184
20°	1108	1233	1251	1336	1387	1346	1281	1293	1163
22.5°	1079	1206	1226	1387	1418	1401	1263	1267	1137
25°	1046	1172	1229	1381	1405	1401	1273	1230	1100
27.5°	1009	1125	1253	1360	1403	1384	1301	1177	1059
30°	975	1076	1241	1354	1438	1380	1295	1121	1027
32.5°	944	1035	1198	1374	1440	1401	1253	1084	1000
35°	914	1005	1163	1354	1359	1370	1212	1056	970
37.5°	884	980	1147	1257	1225	1273	1188	1028	929
40°	849	958	1141	1117	1046	1138	1174	1002	881
42.5°	809	935	1101	938	909	976	1119	972	823
45°	762	894	1003	814	861	861	1015	921	761
47.5°	718	834	891	780	945	831	893	854	697
50°	673	771	769	866	1056	902	783	781	635
52.5°	632	717	682	952	1103	971	712	708	582
55°	601	667	637	959	1034	982	675	647	537
57.5°	565	621	648	861	882	873	669	582	490
60°	522	556	635	713	730	718	636	505	425
62.5°	460	466	560	557	558	554	551	415	337
65°	398	361	414	384	413	386	398	304	240
67.5°	286	232	250	249	242	236	234	186	137
70°	102	93	100	91	54	92	97	80	28
72.5°	15	18	27	15	13	16	26	15	8
75°	7	7	7	7	7	7	7	6	5
77.5°	5	5	5	5	5	5	4	4	3
80°	3	3	3	3	3	4	3	3	2
82.5°	2	2	3	2	2	2	3	2	1
85°	1	1	2	1	1	1	2	2	1
87.5°	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)