

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: 138P100

Luminaire Tested: **SSL-240**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 138P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSL-240
Description: Staggered Striplite
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

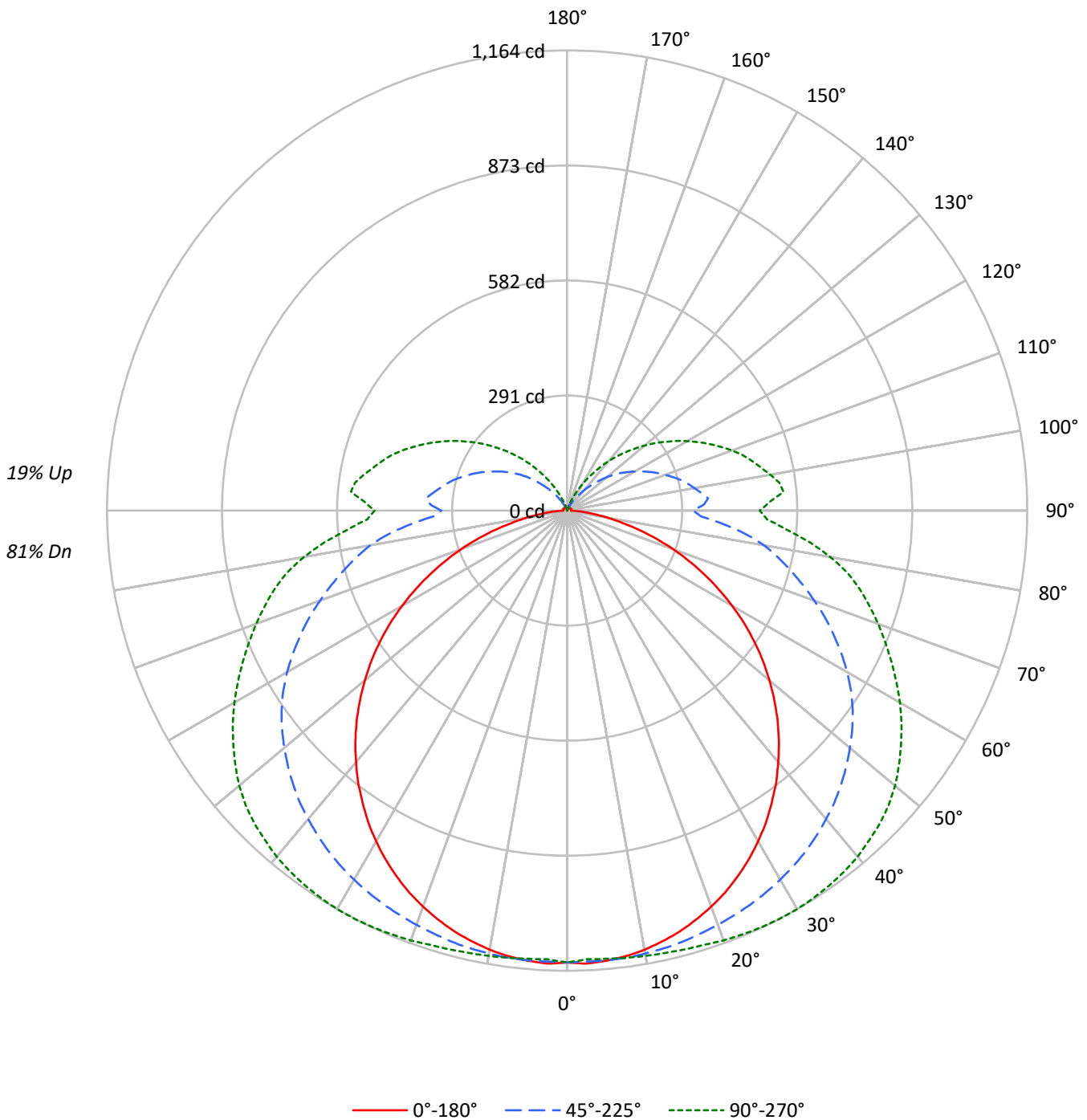
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 5853.7 lumens
Efficiency: 92.9%
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4.25' x H: 0.15')
CIE Type: Semi-Direct

Input Watts (W): 90.5
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	106	106	106	106	102	102	102	102	94	94	94	86	86	86	79	79	79	75
1	94	89	84	79	90	85	80	76	78	74	71	71	68	66	65	63	61	57
2	85	76	68	62	80	72	66	60	66	61	56	60	56	52	55	52	48	45
3	76	66	57	50	72	63	55	49	57	51	46	52	47	43	48	43	40	37
4	69	57	49	42	66	55	47	41	50	44	38	46	40	36	42	37	33	31
5	64	51	42	35	60	49	40	34	45	38	32	41	35	30	38	33	28	26
6	58	45	37	30	55	44	35	30	40	33	28	37	31	26	34	29	25	22
7	54	41	32	26	51	39	31	26	36	29	24	33	27	23	31	26	22	19
8	50	37	29	23	48	36	28	23	33	26	22	30	25	20	28	23	19	17
9	47	34	26	21	44	33	25	20	30	24	19	28	22	18	26	21	17	15
10	44	31	24	19	42	30	23	18	28	22	17	26	20	16	24	19	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7720	7720	7720
5°	7726	7545	7461
10°	7689	7413	7342
15°	7635	7308	7276
20°	7567	7227	7285
25°	7489	7187	7337
30°	7387	7169	7413
35°	7262	7171	7498
40°	7122	7181	7598
45°	6954	7205	7696
50°	6743	7234	7776
55°	6488	7276	7806
60°	6146	7278	7846
65°	5716	7243	7887
70°	5143	7207	7991
75°	4349	7212	8155
80°	3354	7298	8204
85°	2282	6961	7943



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	108.9	1.9	1.7	0°	1143	1143	1143	1143	1143	
10°-20°	319.3	5.5	5.1	5°	1143	1142	1142	1145	1138	109
20°-30°	506.7	8.7	8.0	15°	1102	1111	1129	1149	1149	311
30°-40°	653.0	11.2	10.4	25°	1021	1046	1099	1151	1163	470
40°-50°	741.4	12.7	11.8	35°	902	952	1052	1134	1157	564
50°-60°	757.1	12.9	12.0	45°	753	837	980	1087	1119	580
60°-70°	694.9	11.9	11.0	55°	578	703	882	996	1031	516
70°-80°	572.7	9.8	9.1	65°	384	552	744	865	905	380
80°-90°	395.8	6.8	6.3	75°	188	388	585	721	766	201
90°-100°	337.7	5.8	5.4	85°	41	225	397	515	558	47
100°-110°	288.1	4.9	4.6	90°	10	144	318	443	487	7
110°-120°	214.3	3.7	3.4	95°	11	152	358	501	549	9
120°-130°	141.5	2.4	2.2	105°	11	110	298	436	484	11
130°-140°	78.4	1.3	1.2	115°	10	74	231	353	398	10
140°-150°	33.9	0.6	0.5	125°	9	40	165	267	303	8
150°-160°	9.4	0.2	0.1	135°	9	14	97	180	208	7
160°-170°	0.6	0.0	0.0	145°	9	9	41	97	118	6
170°-180°	0.0	0.0	0.0	155°	11	10	9	26	40	5
0°-30°	934.9	16.0	14.8	165°	0	0	0	0	0	1
0°-40°	1587.9	27.1	25.2	175°	0	0	0	0	0	0
0°-60°	3086.4	52.7	49.0	180°	0	0	0	0	0	
0°-90°	4749.8	81.1	75.4							
90°-120°	840.1	14.4	13.3							
90°-150°	1093.9	18.7	17.4							
90°-180°	1104.0	18.9	17.5							
0°-180°	5853.7	100.0	92.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143	1143	1143	1143	1143
2.5°	1147	1145	1142	1144	1136
5°	1143	1142	1142	1145	1138
7.5°	1137	1138	1141	1146	1141
10°	1128	1131	1138	1148	1144
12.5°	1116	1122	1134	1149	1146
15°	1102	1111	1129	1149	1149
17.5°	1085	1098	1122	1149	1152
20°	1066	1082	1115	1151	1157
22.5°	1045	1066	1107	1152	1160
25°	1021	1046	1099	1151	1163
27.5°	995	1025	1089	1149	1164
30°	966	1003	1078	1146	1164
32.5°	936	978	1066	1141	1161
35°	902	952	1052	1134	1157
37.5°	868	925	1036	1126	1151
40°	831	897	1019	1115	1143
42.5°	793	868	1001	1102	1131
45°	753	837	980	1087	1119
47.5°	711	806	958	1070	1103
50°	668	773	934	1050	1083
52.5°	624	738	909	1025	1058
55°	578	703	882	996	1031
57.5°	531	667	852	966	1003
60°	482	630	818	935	972
62.5°	433	592	782	901	939
65°	384	552	744	865	905
67.5°	334	512	706	829	871
70°	285	472	665	793	837
72.5°	236	430	625	757	802
75°	188	388	585	721	766
77.5°	143	346	546	681	726
80°	103	303	506	633	676
82.5°	69	263	456	577	620
85°	41	225	397	515	558
87.5°	20	173	339	463	506
90°	10	144	318	443	487
92.5°	11	162	346	469	513
95°	11	152	358	501	549
97.5°	11	141	342	490	541
100°	11	130	327	470	522
102.5°	11	119	313	453	502
105°	11	110	298	436	484
107.5°	10	100	281	417	466
110°	10	91	264	396	444



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10	82	248	375	421
115°	10	74	231	353	398
117.5°	10	65	214	332	375
120°	10	57	198	310	351
122.5°	9	49	181	289	328
125°	9	40	165	267	303
127.5°	9	32	149	245	280
130°	9	25	132	223	256
132.5°	9	19	114	201	232
135°	9	14	97	180	208
137.5°	9	10	82	159	186
140°	9	9	67	138	163
142.5°	9	9	54	118	140
145°	9	9	41	97	118
147.5°	9	9	30	76	97
150°	10	9	20	58	77
152.5°	10	10	12	41	58
155°	11	10	9	26	40
157.5°	12	12	10	15	25
160°	15	14	13	12	14
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)