

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: 148P100

Luminaire Tested: **STM-332**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 148P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: STM-332
Description: STM Series Commercial Heavy Duty Striplight
Light Source: Three - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B3321120RH Electronic - L.O.B.F. = 88.9

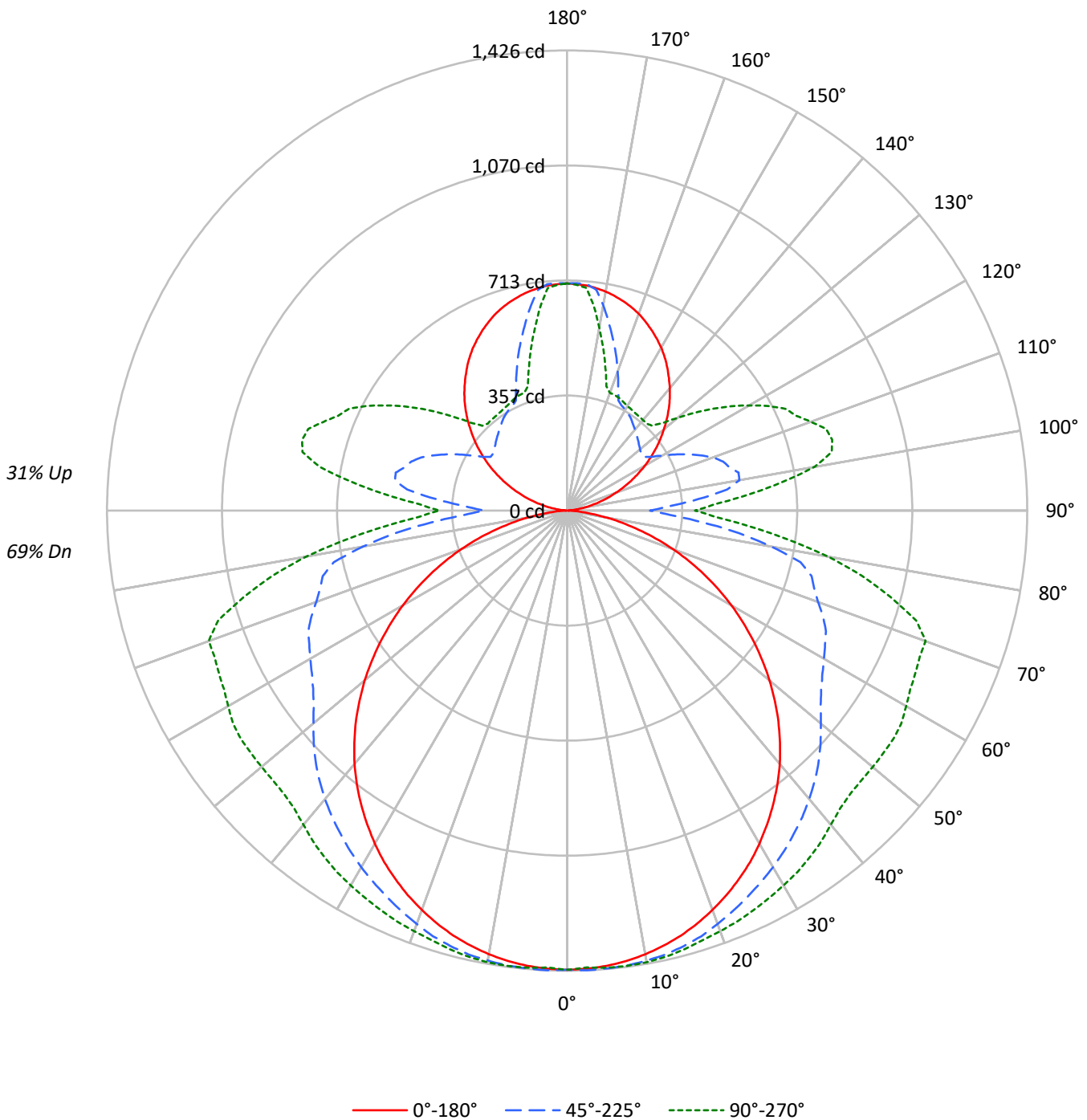
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 8199.3 lumens
Efficiency: 95.9%
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.42 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 3.96' x H: 0.16')
CIE Type: Semi-Direct

Input Watts (W): 87.4
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

TEST NUMBER: 148P100
CATALOG NUMBER: STM-332

Luminous Intensity Polar Plot





TEST NUMBER: 148P100

CATALOG NUMBER: STM-332

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	107	107	107	107	101	101	101	101	90	90	90	80	80	80	70	70	70	66
1	95	90	85	81	89	85	80	77	75	72	69	66	64	61	58	56	54	50
2	86	77	70	64	80	72	66	60	64	59	55	56	52	49	49	46	43	40
3	77	67	58	52	72	63	55	49	56	49	45	49	44	40	43	39	36	32
4	70	58	50	43	66	55	47	41	49	42	37	43	38	33	38	33	30	27
5	64	52	43	36	60	49	41	35	43	37	32	38	33	29	34	29	26	23
6	59	46	37	31	55	44	36	30	39	32	27	34	29	25	30	26	22	20
7	55	42	33	27	51	39	32	26	35	29	24	31	26	22	27	23	19	17
8	51	38	30	24	47	36	28	23	32	26	21	28	23	19	25	21	17	15
9	47	34	27	21	44	33	25	20	29	23	19	26	21	17	23	19	15	13
10	44	32	24	19	41	30	23	18	27	21	17	24	19	15	21	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6638	6638	6638
5°	6608	6544	6506
10°	6567	6460	6428
15°	6514	6376	6340
20°	6445	6271	6274
25°	6368	6174	6251
30°	6278	6108	6257
35°	6168	6050	6288
40°	6042	6011	6320
45°	5877	5973	6459
50°	5677	5915	6801
55°	5428	5966	7261
60°	5135	6231	7733
65°	4763	6665	8353
70°	4283	7065	9291
75°	3614	7806	9360
80°	2701	7730	8760
85°	1439	6488	7504



TEST NUMBER: 148P100
 CATALOG NUMBER: STM-332

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	135.5	1.7	1.6	0°	1423	1423	1423	1423	1423	
10°-20°	393.3	4.8	4.6	5°	1416	1419	1424	1428	1422	135
20°-30°	609.3	7.4	7.1	15°	1363	1377	1397	1410	1407	385
30°-40°	764.4	9.3	8.9	25°	1260	1288	1321	1358	1366	581
40°-50°	845.0	10.3	9.9	35°	1113	1153	1224	1293	1311	696
50°-60°	870.9	10.6	10.2	45°	926	984	1102	1199	1241	714
60°-70°	844.6	10.3	9.9	55°	705	795	961	1162	1234	630
70°-80°	737.8	9.0	8.6	65°	468	586	885	1106	1191	463
80°-90°	418.6	5.1	4.9	75°	230	431	784	992	1038	244
90°-100°	387.5	4.7	4.5	85°	39	248	422	534	569	50
100°-110°	509.5	6.2	6.0	90°	2	113	257	361	396	3
110°-120°	424.8	5.2	5.0	95°	15	214	408	524	561	21
120°-130°	324.6	4.0	3.8	105°	104	183	520	773	850	111
130°-140°	264.1	3.2	3.1	115°	219	168	412	659	746	216
140°-150°	240.8	2.9	2.8	125°	336	228	290	472	549	300
150°-160°	206.2	2.5	2.4	135°	445	282	310	350	372	343
160°-170°	157.6	1.9	1.8	145°	541	374	346	361	368	338
170°-180°	64.8	0.8	0.8	155°	618	517	376	383	384	285
0°-30°	1138.1	13.9	13.3	165°	672	658	549	484	458	190
0°-40°	1902.5	23.2	22.3	175°	700	702	704	700	692	66
0°-60°	3618.4	44.1	42.3	180°	704	704	704	704	704	
0°-90°	5619.4	68.5	65.7							
90°-120°	1321.8	16.1	15.5							
90°-150°	2151.2	26.2	25.2							
90°-180°	2580.0	31.5	30.2							
0°-180°	8199.3	100.0	95.9							



TEST NUMBER: 148P100

CATALOG NUMBER: STM-332

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423	1423	1423	1423	1423
2.5°	1421	1422	1426	1426	1417
5°	1416	1419	1424	1428	1422
7.5°	1408	1412	1422	1428	1423
10°	1396	1403	1416	1426	1421
12.5°	1381	1391	1409	1420	1416
15°	1363	1377	1397	1410	1407
17.5°	1342	1359	1383	1397	1396
20°	1317	1338	1363	1385	1387
22.5°	1290	1315	1343	1372	1378
25°	1260	1288	1321	1358	1366
27.5°	1228	1259	1299	1343	1354
30°	1192	1226	1276	1328	1341
32.5°	1153	1191	1251	1312	1328
35°	1113	1153	1224	1293	1311
37.5°	1070	1113	1197	1272	1293
40°	1025	1072	1167	1247	1271
42.5°	976	1029	1136	1221	1252
45°	926	984	1102	1199	1241
47.5°	873	939	1065	1183	1237
50°	819	891	1026	1174	1236
52.5°	762	843	990	1168	1235
55°	705	795	961	1162	1234
57.5°	647	745	938	1155	1228
60°	588	694	919	1141	1213
62.5°	528	642	901	1122	1199
65°	468	586	885	1106	1191
67.5°	408	533	858	1095	1183
70°	348	491	827	1082	1182
72.5°	288	458	803	1071	1134
75°	230	431	784	992	1038
77.5°	174	396	741	888	936
80°	123	355	642	781	821
82.5°	77	325	538	655	691
85°	39	248	422	534	569
87.5°	13	164	319	426	461
90°	2	113	257	361	396
92.5°	5	159	317	424	459
95°	15	214	408	524	561
97.5°	33	221	500	632	670
100°	54	216	542	729	778
102.5°	78	202	544	770	840
105°	104	183	520	773	850
107.5°	132	164	506	754	841
110°	160	152	481	713	804



TEST NUMBER: 148P100

CATALOG NUMBER: STM-332

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189	155	447	694	768
115°	219	168	412	659	746
117.5°	248	182	376	614	702
120°	278	196	341	567	652
122.5°	307	212	310	520	601
125°	336	228	290	472	549
127.5°	364	243	289	426	497
130°	391	258	295	385	447
132.5°	419	270	302	357	402
135°	445	282	310	350	372
137.5°	471	293	318	352	365
140°	495	310	327	354	366
142.5°	518	341	336	357	367
145°	541	374	346	361	368
147.5°	563	412	354	366	371
150°	583	447	361	372	374
152.5°	601	482	366	378	379
155°	618	517	376	383	384
157.5°	634	553	413	385	387
160°	649	589	458	390	388
162.5°	661	625	504	430	404
165°	672	658	549	484	458
167.5°	681	682	596	538	516
170°	689	694	646	594	574
172.5°	695	699	690	654	637
175°	700	702	704	700	692
177.5°	702	704	705	704	700
180°	704	704	704	704	704

(END OF REPORT)