

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: 101P101

Luminaire Tested: **STN-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 101P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: STN-232
Description: STN Series Commercial Heavy Duty Striplite
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

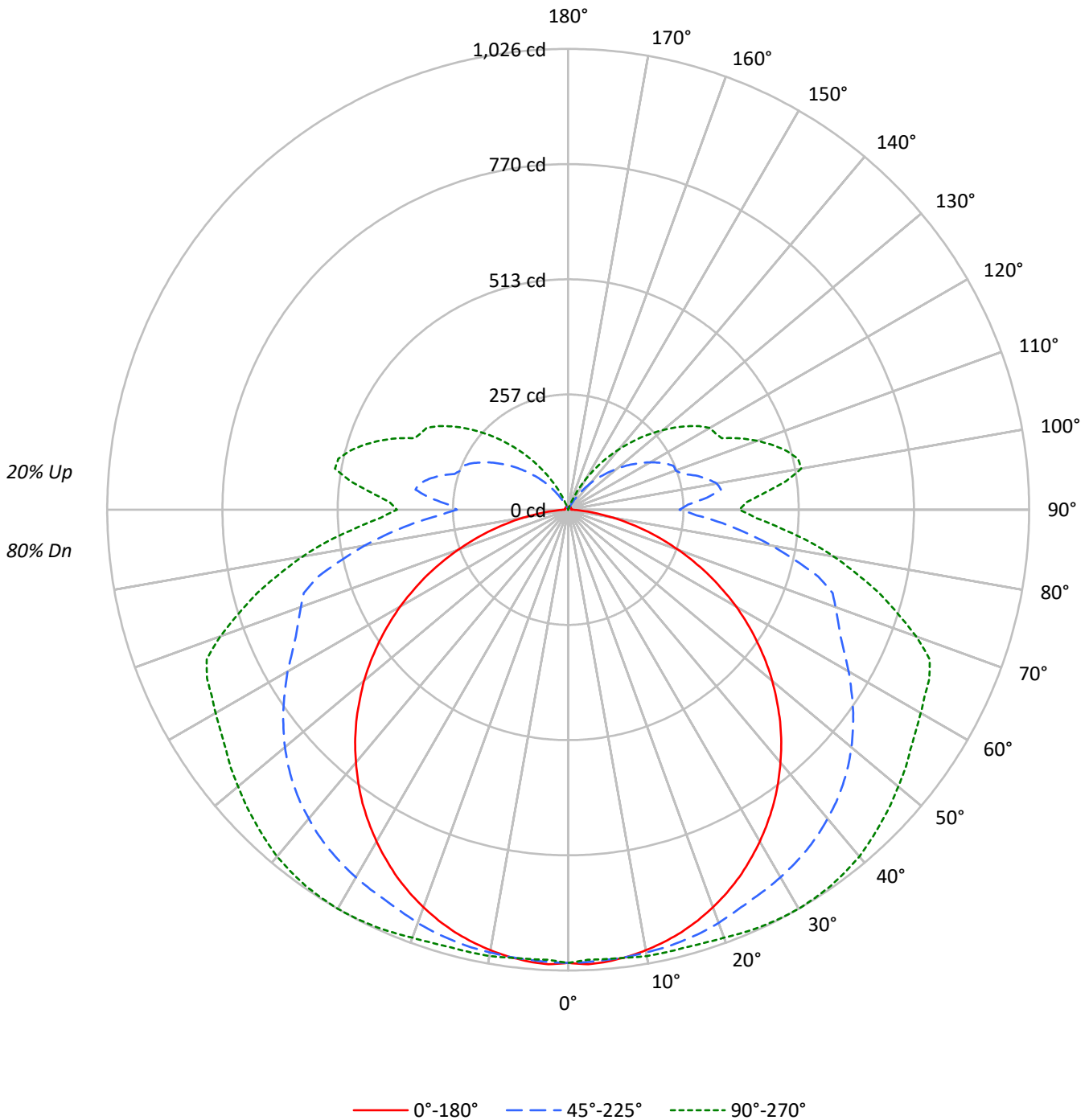
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 5327.2 lumens
Efficiency: 93.5%
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.37' x L: 4.15' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 62.4
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: 101P101
CATALOG NUMBER: STN-232

Luminous Intensity Polar Plot





TEST NUMBER: 101P101
 CATALOG NUMBER: STN-232

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	102	102	102	102	93	93	93	85	85	85	78	78	78	75
1	95	89	84	80	90	85	81	77	78	74	71	71	68	65	64	62	60	57
2	85	76	69	62	80	72	66	60	66	61	56	60	56	52	54	51	48	45
3	76	66	57	50	72	63	55	49	57	51	45	52	47	42	47	43	39	36
4	70	57	48	42	66	55	47	40	50	43	38	46	40	35	41	37	33	30
5	64	51	42	35	60	49	40	34	44	37	32	41	35	30	37	32	28	25
6	58	45	37	30	55	43	35	29	40	33	28	36	30	26	33	28	24	22
7	54	41	32	26	51	39	31	26	36	29	24	33	27	23	30	25	21	19
8	50	37	29	23	47	36	28	22	33	26	21	30	24	20	28	23	19	17
9	47	34	26	21	44	32	25	20	30	23	19	28	22	18	25	20	17	15
10	44	31	23	18	41	30	23	18	28	21	17	25	20	16	24	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7080	7080	7080
5°	7095	6928	6869
10°	7059	6819	6785
15°	7019	6743	6721
20°	6958	6678	6743
25°	6887	6628	6842
30°	6793	6657	6956
35°	6694	6702	7073
40°	6566	6751	7194
45°	6425	6811	7306
50°	6249	6858	7464
55°	6028	6903	7674
60°	5762	6975	8021
65°	5411	7129	8540
70°	4926	7573	8767
75°	4313	7922	8586
80°	3451	7508	8315
85°	2275	6989	7866



TEST NUMBER: 101P101
 CATALOG NUMBER: STN-232

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	96.0	1.8	1.7	0°	1009	1009	1009	1009	1009	
10°-20°	280.8	5.3	4.9	5°	1010	1007	1006	1008	1004	96
20°-30°	444.8	8.4	7.8	15°	974	977	993	1008	1009	275
30°-40°	574.4	10.8	10.1	25°	902	920	960	1008	1023	415
40°-50°	652.9	12.3	11.5	35°	798	834	925	999	1021	499
50°-60°	673.4	12.6	11.8	45°	667	734	865	956	985	514
60°-70°	645.2	12.1	11.3	55°	514	623	774	889	930	459
70°-80°	537.6	10.1	9.4	65°	347	491	669	829	887	343
80°-90°	343.8	6.5	6.0	75°	177	339	576	679	716	188
90°-100°	292.9	5.5	5.1	85°	38	203	345	441	475	44
100°-110°	292.3	5.5	5.1	90°	9	116	248	346	381	6
110°-120°	214.9	4.0	3.8	95°	7	151	310	406	440	6
120°-130°	150.2	2.8	2.6	105°	7	116	294	450	504	7
130°-140°	84.0	1.6	1.5	115°	7	78	242	340	377	7
140°-150°	35.4	0.7	0.6	125°	7	41	177	285	324	6
150°-160°	7.7	0.1	0.1	135°	7	10	108	193	226	5
160°-170°	1.0	0.0	0.0	145°	7	6	44	103	126	4
170°-180°	0.0	0.0	0.0	155°	7	6	5	24	36	3
0°-30°	821.6	15.4	14.4	165°	7	6	5	4	3	1
0°-40°	1396.0	26.2	24.5	175°	0	0	0	0	0	0
0°-60°	2722.3	51.1	47.8	180°	0	0	0	0	0	0
0°-90°	4248.8	79.8	74.5							
90°-120°	800.1	15.0	14.0							
90°-150°	1069.7	20.1	18.8							
90°-180°	1078.0	20.2	18.9							
0°-180°	5327.2	100.0	93.5							



TEST NUMBER: 101P101
 CATALOG NUMBER: STN-232

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009	1009	1009	1009	1009
2.5°	1013	1010	1008	1008	1003
5°	1010	1007	1006	1008	1004
7.5°	1004	1002	1004	1008	1006
10°	996	996	1001	1009	1009
12.5°	986	987	998	1010	1009
15°	974	977	993	1008	1009
17.5°	959	965	987	1006	1011
20°	942	952	979	1006	1014
22.5°	923	937	969	1007	1019
25°	902	920	960	1008	1023
27.5°	878	901	953	1009	1025
30°	853	881	945	1008	1026
32.5°	826	858	936	1004	1024
35°	798	834	925	999	1021
37.5°	767	809	913	991	1015
40°	735	784	898	982	1008
42.5°	702	759	883	970	997
45°	667	734	865	956	985
47.5°	630	708	845	940	973
50°	593	681	823	923	959
52.5°	554	653	799	906	946
55°	514	623	774	889	930
57.5°	473	593	747	870	917
60°	432	561	721	855	906
62.5°	389	527	693	842	895
65°	347	491	669	829	887
67.5°	303	453	650	819	871
70°	260	414	633	788	824
72.5°	218	375	617	734	769
75°	177	339	576	679	716
77.5°	137	318	516	623	657
80°	100	303	460	563	600
82.5°	66	257	401	506	540
85°	38	203	345	441	475
87.5°	18	154	286	384	418
90°	9	116	248	346	381
92.5°	7	133	267	364	398
95°	7	151	310	406	440
97.5°	7	138	343	455	489
100°	7	122	336	481	527
102.5°	7	122	317	471	524
105°	7	116	294	450	504
107.5°	7	107	265	423	478
110°	7	97	255	393	448



TEST NUMBER: 101P101
CATALOG NUMBER: STN-232

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7	87	254	356	415
115°	7	78	242	340	377
117.5°	7	69	227	338	369
120°	7	60	211	325	364
122.5°	7	50	194	306	346
125°	7	41	177	285	324
127.5°	7	33	160	263	301
130°	7	24	142	240	276
132.5°	7	17	125	217	251
135°	7	10	108	193	226
137.5°	7	7	92	171	200
140°	7	7	76	148	175
142.5°	7	6	60	125	150
145°	7	6	44	103	126
147.5°	7	6	30	82	102
150°	7	6	18	61	79
152.5°	7	6	8	42	57
155°	7	6	5	24	36
157.5°	7	6	5	10	18
160°	7	6	5	4	5
162.5°	7	6	5	4	3
165°	7	6	5	4	3
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)