

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: ITL44631

Luminaire Tested: **STN-196PG**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL44631
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: STN-196PG
Description: WHITE PAINTED FABRICATED METAL STRIP BALLAST HOUSING.
Light Source: ONE 215-WATT F96PG17/CW FLUORESCENT.
Ballast/Driver: MAGNETEK 951-S-TC-P (BALLAST FACTOR 79.9%)

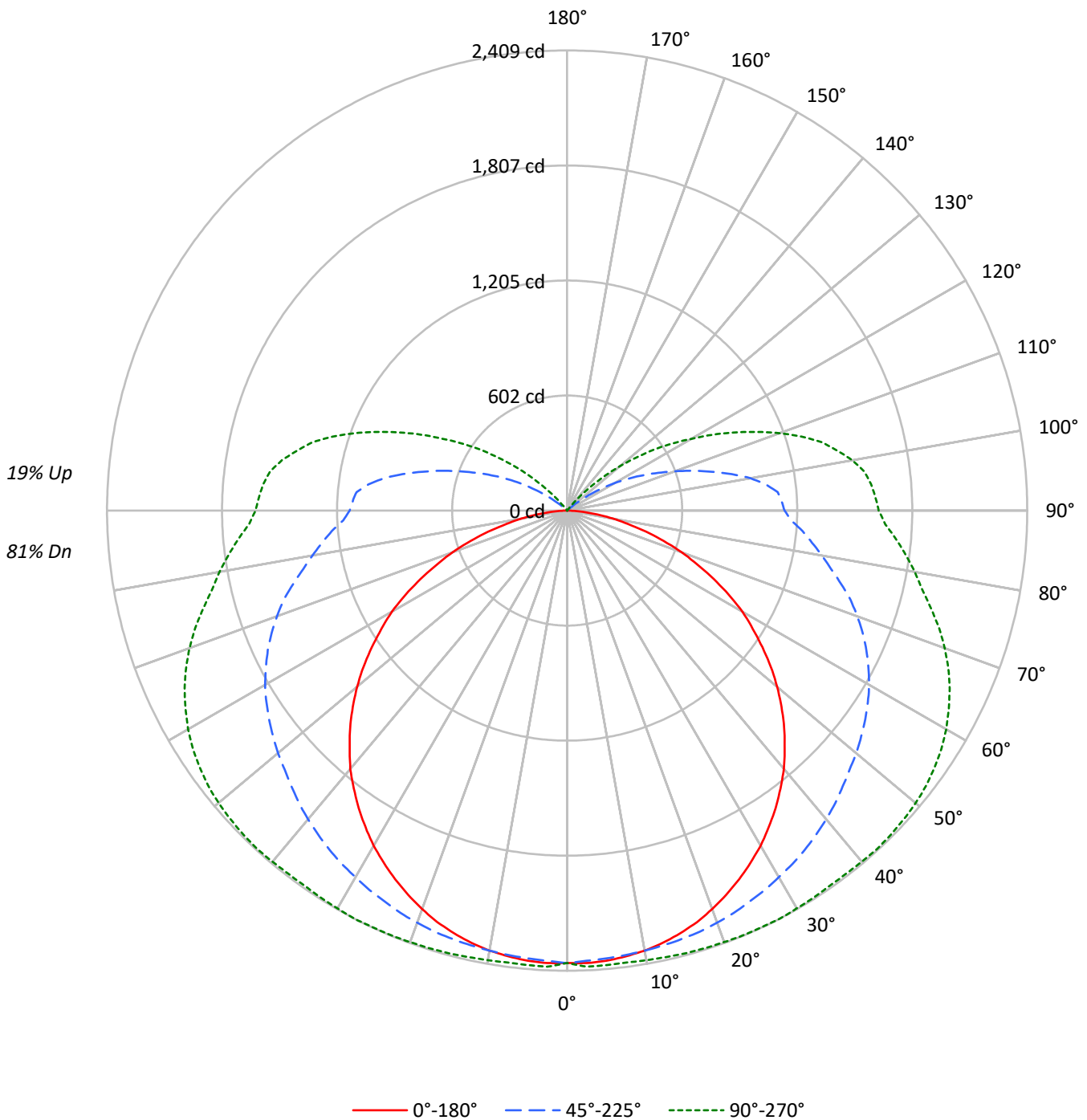
Summary

Lumens per Lamp: 15300 (1 lamp)
Luminaire Lumens: 13268.0 lumens
Efficiency: 86.7%
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.55 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.36' x L: 8' x H: 0.18')
CIE Type: Semi-Direct

Input Watts (W): 193.5
Input Voltage (V): NR
Input Current (A_{in}): 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	99	99	99	99	95	95	95	95	87	87	87	80	80	80	74	74	74	71
1	87	82	77	72	83	78	73	69	71	67	64	65	62	59	59	57	55	52
2	78	69	62	56	74	66	59	54	60	55	50	55	50	47	50	46	43	40
3	70	60	51	45	66	57	49	43	52	46	41	47	42	38	43	39	35	32
4	64	52	43	37	60	50	42	36	45	39	34	41	36	31	38	33	29	27
5	58	46	37	31	55	44	36	30	40	34	28	37	31	27	34	29	25	22
6	53	41	33	27	51	39	32	26	36	29	24	33	27	23	30	25	21	19
7	49	37	29	23	47	35	28	23	33	26	21	30	24	20	27	23	19	17
8	46	33	26	20	44	32	25	20	30	23	19	27	22	18	25	20	17	15
9	43	31	23	18	41	29	22	18	27	21	17	25	20	16	23	18	15	13
10	40	28	21	16	38	27	20	16	25	19	15	23	18	14	21	17	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8742	8742	8742
5°	8748	8455	8486
10°	8731	8243	8249
15°	8701	8092	8110
20°	8649	7974	8023
25°	8584	7879	7991
30°	8524	7821	8004
35°	8438	7808	8058
40°	8352	7811	8214
45°	8205	7837	8423
50°	8027	7944	8661
55°	7783	8101	8916
60°	7535	8309	9183
65°	7052	8529	9452
70°	6489	8777	9724
75°	5637	9048	9991
80°	4607	9476	10460
85°	2872	10260	11173



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	225.0	1.7	1.5	0°	2369	2369	2369	2369	2369	
10°-20°	659.2	5.0	4.3	5°	2366	2348	2354	2366	2388	225
20°-30°	1045.0	7.9	6.8	15°	2291	2288	2322	2364	2399	647
30°-40°	1352.5	10.2	8.8	25°	2130	2162	2259	2353	2407	982
40°-50°	1563.8	11.8	10.2	35°	1902	1988	2169	2321	2397	1190
50°-60°	1663.7	12.5	10.9	45°	1607	1761	2041	2287	2398	1238
60°-70°	1627.5	12.3	10.6	55°	1248	1505	1905	2226	2347	1117
70°-80°	1459.8	11.0	9.5	65°	846	1228	1729	2088	2210	837
80°-90°	1214.9	9.2	7.9	75°	428	982	1485	1863	1971	455
90°-100°	1032.2	7.8	6.7	85°	85	677	1237	1613	1729	103
100°-110°	755.4	5.7	4.9	90°	1	569	1138	1499	1631	4
110°-120°	434.0	3.3	2.8	95°	0	455	1107	1467	1597	0
120°-130°	192.5	1.5	1.3	105°	0	178	785	1212	1381	0
130°-140°	41.8	0.3	0.3	115°	0	11	437	794	968	0
140°-150°	1.0	0.0	0.0	125°	0	0	151	416	557	0
150°-160°	0.0	0.0	0.0	135°	0	0	1	94	186	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	1	1	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1929.1	14.5	12.6	165°	0	0	0	0	0	0
0°-40°	3281.7	24.7	21.4	175°	0	0	0	0	0	0
0°-60°	6509.1	49.1	42.5	180°	0	0	0	0	0	0
0°-90°	10811.3	81.5	70.7							
90°-120°	2221.5	16.7	14.5							
90°-150°	2456.7	18.5	16.1							
90°-180°	2457.0	18.5	16.1							
0°-180°	13268.0	100.0	86.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2369	2369	2369	2369	2369
2.5°	2371	2353	2359	2368	2390
5°	2366	2348	2354	2366	2388
7.5°	2354	2339	2347	2362	2386
10°	2339	2328	2339	2362	2390
12.5°	2318	2310	2331	2363	2394
15°	2291	2288	2322	2364	2399
17.5°	2259	2262	2311	2364	2402
20°	2220	2235	2296	2362	2404
22.5°	2177	2200	2280	2359	2407
25°	2130	2162	2259	2353	2407
27.5°	2079	2125	2240	2350	2409
30°	2026	2081	2216	2342	2405
32.5°	1965	2037	2194	2333	2402
35°	1902	1988	2169	2321	2397
37.5°	1834	1934	2140	2309	2397
40°	1766	1880	2110	2299	2400
42.5°	1685	1819	2078	2295	2402
45°	1607	1761	2041	2287	2398
47.5°	1522	1696	2006	2277	2391
50°	1435	1634	1976	2264	2382
52.5°	1344	1572	1941	2247	2368
55°	1248	1505	1905	2226	2347
57.5°	1153	1436	1867	2198	2323
60°	1060	1366	1826	2170	2291
62.5°	953	1293	1778	2131	2252
65°	846	1228	1729	2088	2210
67.5°	736	1164	1675	2039	2160
70°	638	1103	1616	1983	2104
72.5°	530	1047	1556	1926	2041
75°	428	982	1485	1863	1971
77.5°	326	908	1416	1792	1903
80°	244	834	1354	1732	1848
82.5°	159	755	1294	1676	1789
85°	85	677	1237	1613	1729
87.5°	25	625	1173	1549	1668
90°	1	569	1138	1499	1631
92.5°	0	543	1124	1482	1615
95°	0	455	1107	1467	1597
97.5°	0	372	1049	1431	1569
100°	0	300	975	1370	1516
102.5°	0	233	882	1293	1449
105°	0	178	785	1212	1381
107.5°	0	128	693	1107	1287
110°	0	78	601	1003	1185



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	38	516	899	1076
115°	0	11	437	794	968
117.5°	0	0	361	693	860
120°	0	0	287	600	751
122.5°	0	0	216	506	653
125°	0	0	151	416	557
127.5°	0	0	90	326	455
130°	0	0	38	246	364
132.5°	0	0	8	165	274
135°	0	0	1	94	186
137.5°	0	0	0	36	115
140°	0	0	0	8	46
142.5°	0	0	0	1	8
145°	0	0	0	1	1
147.5°	0	0	0	0	1
150°	0	0	0	0	1
152.5°	0	0	0	0	1
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
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)