

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: ITL44659

Luminaire Tested: **EIVM-248**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL44659
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EIVM-248
Description: FABRICATED METAL STRIP BALLAST HOUSING WITH WHITE PAINTED SOCKET HOUSINGS, WHITE PAINTED FABRICATED METAL REFLECTOR WITH UP-LIGHT APERTURES AND TRIANGULAR RAISED CENTER SECTION, OPEN ENDS AND BOTTOM.
Light Source: TWO 40-WATT F48T12 STD/CW FLUORESCENTS.
Ballast/Driver: MAGNETEK TRIAD B260I120HP

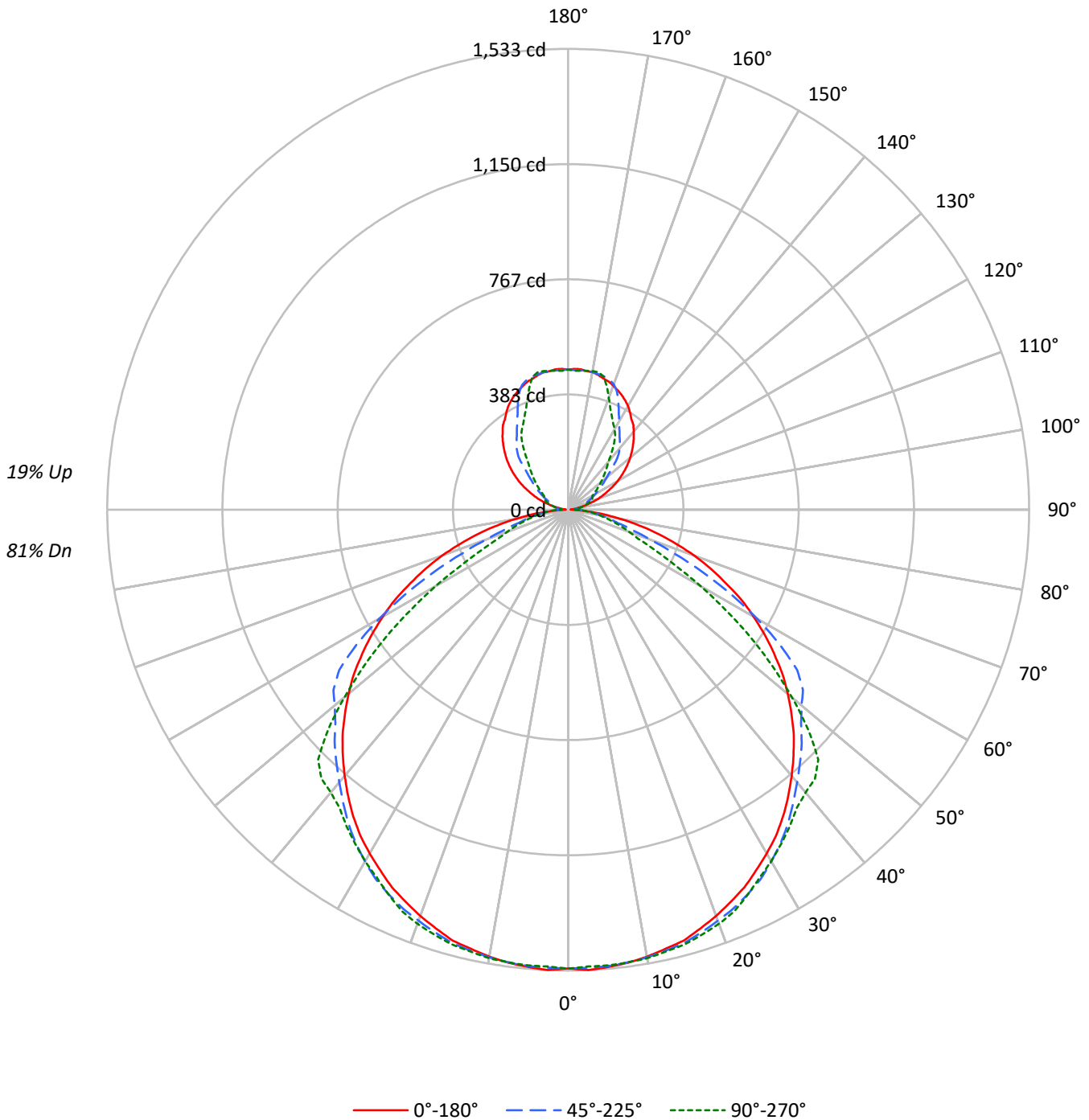
Summary

Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5496.8 lumens
Efficiency: 91.6%
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.09' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.6
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

TEST NUMBER: ITL44659
CATALOG NUMBER: EIVM-248

Luminous Intensity Polar Plot





TEST NUMBER: ITL44659
 CATALOG NUMBER: EIVM-248

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	105	105	105	105	100	100	100	100	92	92	92	84	84	84	77	77	77	74
1	96	92	88	85	92	88	85	82	81	78	76	74	72	71	69	67	66	62
2	87	80	74	69	83	77	72	67	71	67	63	65	62	59	60	58	55	52
3	80	71	63	58	76	68	61	56	63	57	53	58	53	50	53	50	47	44
4	73	62	55	49	70	60	53	48	56	50	45	51	47	43	48	44	40	38
5	67	56	48	42	64	54	46	41	50	44	39	46	41	37	43	38	35	33
6	62	50	42	36	59	48	41	36	45	39	34	42	36	32	39	34	31	29
7	57	45	37	32	55	44	36	31	41	34	30	38	33	29	35	31	27	25
8	53	41	34	28	51	40	33	28	37	31	27	35	29	25	32	28	24	22
9	50	38	30	25	47	36	30	25	34	28	24	32	27	23	30	25	22	20
10	46	35	28	23	44	34	27	22	31	26	22	29	24	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3754	3754	3754
5°	3771	3764	3759
10°	3772	3777	3785
15°	3780	3800	3813
20°	3765	3809	3838
25°	3762	3833	3836
30°	3750	3838	3835
35°	3742	3826	3859
40°	3713	3803	3944
45°	3691	3820	4092
50°	3651	3877	3720
55°	3586	3985	3178
60°	3503	3567	2504
65°	3365	2887	1851
70°	3208	2093	1547
75°	2947	1625	1473
80°	2508	1573	1488
85°	1835	1778	1863



TEST NUMBER: ITL44659
 CATALOG NUMBER: EIVM-248

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	145.1	2.6	2.4	0°	1526	1526	1526	1526	1526	
10°-20°	421.2	7.7	7.0	5°	1527	1528	1524	1519	1522	145
20°-30°	649.6	11.8	10.8	15°	1484	1492	1492	1496	1497	418
30°-40°	798.3	14.5	13.3	25°	1386	1406	1412	1421	1413	638
40°-50°	860.0	15.6	14.3	35°	1246	1276	1274	1287	1285	779
50°-60°	757.8	13.8	12.6	45°	1061	1106	1098	1167	1176	817
60°-70°	489.9	8.9	8.2	55°	836	878	929	824	741	747
70°-80°	241.4	4.4	4.0	65°	578	637	496	372	318	574
80°-90°	78.6	1.4	1.3	75°	310	329	171	165	155	326
90°-100°	29.5	0.5	0.5	85°	65	77	63	70	66	78
100°-110°	61.0	1.1	1.0	90°	8	33	26	26	22	7
110°-120°	97.0	1.8	1.6	95°	10	31	23	23	22	14
120°-130°	139.3	2.5	2.3	105°	65	49	57	60	59	70
130°-140°	177.0	3.2	2.9	115°	145	105	79	84	88	145
140°-150°	198.6	3.6	3.3	125°	230	194	133	123	115	205
150°-160°	180.1	3.3	3.0	135°	305	273	219	182	172	235
160°-170°	128.2	2.3	2.1	145°	367	378	298	284	264	231
170°-180°	44.4	0.8	0.7	155°	421	427	395	354	343	194
0°-30°	1215.9	22.1	20.3	165°	452	455	459	463	458	128
0°-40°	2014.2	36.6	33.6	175°	469	467	465	464	464	45
0°-60°	3631.9	66.1	60.5	180°	466	466	466	466	466	
0°-90°	4441.7	80.8	74.0							
90°-120°	187.5	3.4	3.1							
90°-150°	702.3	12.8	11.7							
90°-180°	1055.0	19.2	17.6							
0°-180°	5496.8	100.0	91.6							



TEST NUMBER: ITL44659
 CATALOG NUMBER: EIVM-248

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526	1526	1526	1526	1526
2.5°	1533	1530	1525	1519	1521
5°	1527	1528	1524	1519	1522
7.5°	1520	1523	1519	1517	1519
10°	1510	1516	1512	1512	1515
12.5°	1496	1504	1502	1505	1505
15°	1484	1492	1492	1496	1497
17.5°	1461	1474	1474	1480	1482
20°	1438	1454	1455	1465	1466
22.5°	1412	1433	1436	1447	1445
25°	1386	1406	1412	1421	1413
27.5°	1353	1376	1386	1390	1379
30°	1320	1345	1351	1355	1350
32.5°	1286	1311	1315	1320	1318
35°	1246	1276	1274	1287	1285
37.5°	1202	1237	1229	1252	1249
40°	1156	1195	1184	1212	1228
42.5°	1109	1151	1141	1185	1214
45°	1061	1106	1098	1167	1176
47.5°	1007	1052	1050	1132	1083
50°	954	997	1013	1045	972
52.5°	898	940	984	938	857
55°	836	878	929	824	741
57.5°	775	816	834	707	621
60°	712	756	725	593	509
62.5°	650	695	612	473	401
65°	578	637	496	372	318
67.5°	513	584	384	291	252
70°	446	522	291	232	215
72.5°	374	432	220	198	185
75°	310	329	171	165	155
77.5°	241	231	139	136	129
80°	177	151	111	112	105
82.5°	120	107	86	90	84
85°	65	77	63	70	66
87.5°	25	53	46	52	46
90°	8	33	26	26	22
92.5°	8	26	21	21	22
95°	10	31	23	23	22
97.5°	21	36	33	32	29
100°	32	39	43	43	41
102.5°	48	40	49	52	50
105°	65	49	57	60	59
107.5°	85	60	63	71	69
110°	106	74	67	78	77



TEST NUMBER: ITL44659
CATALOG NUMBER: EIVM-248

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125	88	69	82	83
115°	145	105	79	84	88
117.5°	167	129	92	88	90
120°	189	154	104	98	93
122.5°	210	175	118	110	103
125°	230	194	133	123	115
127.5°	250	213	149	135	129
130°	269	230	167	150	142
132.5°	287	251	189	166	156
135°	305	273	219	182	172
137.5°	323	303	248	203	190
140°	339	330	267	227	208
142.5°	356	358	282	261	235
145°	367	378	298	284	264
147.5°	383	397	317	300	291
150°	398	410	339	318	308
152.5°	410	421	364	338	324
155°	421	427	395	354	343
157.5°	430	437	424	384	365
160°	439	444	444	417	395
162.5°	447	450	454	448	428
165°	452	455	459	463	458
167.5°	459	460	462	465	468
170°	465	465	464	466	468
172.5°	465	465	464	464	466
175°	469	467	465	464	464
177.5°	469	468	465	464	463
180°	466	466	466	466	466

(END OF REPORT)