

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: ITL44655

Luminaire Tested: **DIVM-248**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL44655
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIVM-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

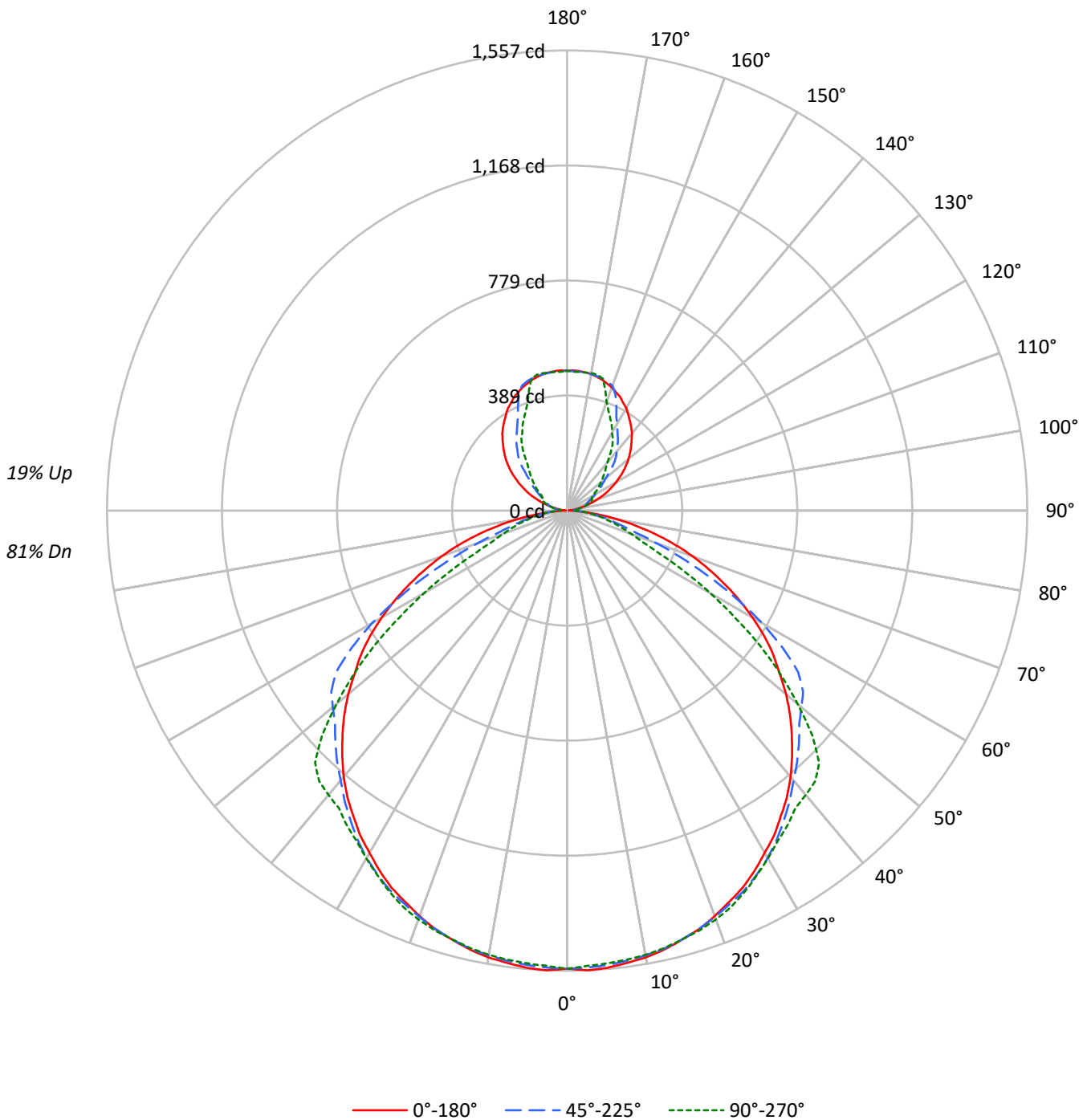
Summary

Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5602.8 lumens
Efficiency: 93.4%
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.3 / 1.43
Luminous Opening: Rectangular (W 1.08' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	107	107	107	107	102	102	102	102	94	94	94	86	86	86	79	79	79	76
1	98	94	90	86	93	90	86	83	83	80	77	76	74	72	70	68	67	64
2	89	82	76	71	85	78	73	68	72	68	64	67	63	60	61	59	56	53
3	81	72	64	59	77	69	62	57	64	58	54	59	54	51	54	51	48	45
4	74	64	56	50	71	61	54	48	57	51	46	52	47	43	48	44	41	38
5	68	57	49	43	65	55	47	41	51	44	39	47	42	37	43	39	35	33
6	63	51	43	37	60	49	42	36	46	39	34	42	37	33	39	35	31	29
7	58	46	38	32	55	44	37	32	41	35	30	38	33	29	36	31	28	25
8	54	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23
9	50	38	31	26	48	37	30	25	35	28	24	32	27	23	30	26	22	20
10	47	35	28	23	45	34	27	23	32	26	22	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3850	3850	3850
5°	3872	3850	3835
10°	3872	3854	3849
15°	3865	3863	3863
20°	3859	3867	3891
25°	3856	3887	3900
30°	3835	3892	3898
35°	3824	3879	3942
40°	3813	3865	4073
45°	3776	3896	4237
50°	3737	4000	3938
55°	3690	4136	3447
60°	3597	3786	2782
65°	3456	3121	2040
70°	3276	2324	1670
75°	2975	1756	1564
80°	2518	1645	1559
85°	1767	1739	1710



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	147.0	2.6	2.5	0°	1550	1550	1550	1550	1550	
10°-20°	424.9	7.6	7.1	5°	1553	1552	1544	1539	1538	148
20°-30°	653.9	11.7	10.9	15°	1503	1507	1502	1503	1502	425
30°-40°	804.2	14.4	13.4	25°	1407	1418	1418	1430	1423	648
40°-50°	873.1	15.6	14.6	35°	1261	1278	1279	1294	1300	790
50°-60°	782.8	14.0	13.0	45°	1075	1106	1109	1193	1206	829
60°-70°	515.8	9.2	8.6	55°	852	881	955	872	796	759
70°-80°	253.0	4.5	4.2	65°	588	649	531	414	347	582
80°-90°	76.4	1.4	1.3	75°	310	351	183	175	163	328
90°-100°	30.5	0.5	0.5	85°	62	75	61	65	60	75
100°-110°	65.3	1.2	1.1	90°	9	30	22	23	22	7
110°-120°	101.4	1.8	1.7	95°	9	33	24	26	24	13
120°-130°	142.9	2.6	2.4	105°	67	53	63	68	66	71
130°-140°	178.4	3.2	3.0	115°	149	107	86	89	93	147
140°-150°	198.6	3.5	3.3	125°	232	195	138	130	124	207
150°-160°	180.3	3.2	3.0	135°	306	271	222	186	178	236
160°-170°	129.2	2.3	2.2	145°	370	382	299	280	266	232
170°-180°	45.0	0.8	0.8	155°	424	431	394	355	345	195
0°-30°	1225.8	21.9	20.4	165°	458	461	463	465	463	129
0°-40°	2030.1	36.2	33.8	175°	474	474	472	471	471	45
0°-60°	3686.0	65.8	61.4	180°	473	473	473	473	473	
0°-90°	4531.2	80.9	75.5							
90°-120°	197.3	3.5	3.3							
90°-150°	717.1	12.8	12.0							
90°-180°	1072.0	19.1	17.9							
0°-180°	5602.8	100.0	93.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550	1550	1550	1550	1550
2.5°	1557	1555	1548	1542	1542
5°	1553	1552	1544	1539	1538
7.5°	1544	1545	1537	1534	1533
10°	1535	1536	1528	1527	1526
12.5°	1521	1523	1518	1518	1516
15°	1503	1507	1502	1503	1502
17.5°	1485	1489	1484	1488	1489
20°	1460	1468	1463	1471	1472
22.5°	1433	1443	1440	1452	1451
25°	1407	1418	1418	1430	1423
27.5°	1374	1385	1389	1398	1391
30°	1337	1353	1357	1363	1359
32.5°	1303	1318	1320	1327	1326
35°	1261	1278	1279	1294	1300
37.5°	1222	1240	1237	1266	1269
40°	1176	1199	1192	1231	1256
42.5°	1126	1153	1152	1211	1242
45°	1075	1106	1109	1193	1206
47.5°	1023	1056	1065	1160	1124
50°	967	1000	1035	1083	1019
52.5°	906	940	1006	986	910
55°	852	881	955	872	796
57.5°	791	821	865	761	673
60°	724	761	762	642	560
62.5°	657	701	647	526	448
65°	588	649	531	414	347
67.5°	518	601	419	316	274
70°	451	539	320	251	230
72.5°	381	449	235	210	196
75°	310	351	183	175	163
77.5°	240	244	145	143	132
80°	176	164	115	115	109
82.5°	113	109	86	88	82
85°	62	75	61	65	60
87.5°	25	52	39	44	39
90°	9	30	22	23	22
92.5°	6	27	21	22	22
95°	9	33	24	26	24
97.5°	19	37	36	36	31
100°	32	39	45	48	45
102.5°	49	44	54	58	55
105°	67	53	63	68	66
107.5°	86	62	68	76	73
110°	106	75	71	82	83



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129	91	76	89	91
115°	149	107	86	89	93
117.5°	169	130	97	94	94
120°	190	153	110	105	99
122.5°	211	172	123	117	111
125°	232	195	138	130	124
127.5°	252	213	153	143	136
130°	271	232	171	157	150
132.5°	288	250	194	172	163
135°	306	271	222	186	178
137.5°	323	299	244	206	193
140°	341	329	261	231	211
142.5°	356	357	281	261	237
145°	370	382	299	280	266
147.5°	385	399	317	298	288
150°	400	410	337	319	304
152.5°	411	422	360	338	326
155°	424	431	394	355	345
157.5°	433	439	425	380	365
160°	443	448	449	416	390
162.5°	450	455	457	450	428
165°	458	461	463	465	463
167.5°	464	465	466	469	471
170°	469	469	469	471	472
172.5°	472	472	470	472	471
175°	474	474	472	471	471
177.5°	475	474	472	471	470
180°	473	473	473	473	473

(END OF REPORT)