

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: ITL44654

Luminaire Tested: **DIVM-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL44654
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIVM-232
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 32-WATT F32T8-SPX35 FLUORESCENTS.
Ballast/Driver: MAGNETEK TRIAD B232I120RH (BALLAST FACTOR 88.1%). BALLAST FACTOR SUPPLIED BY CLIENT.

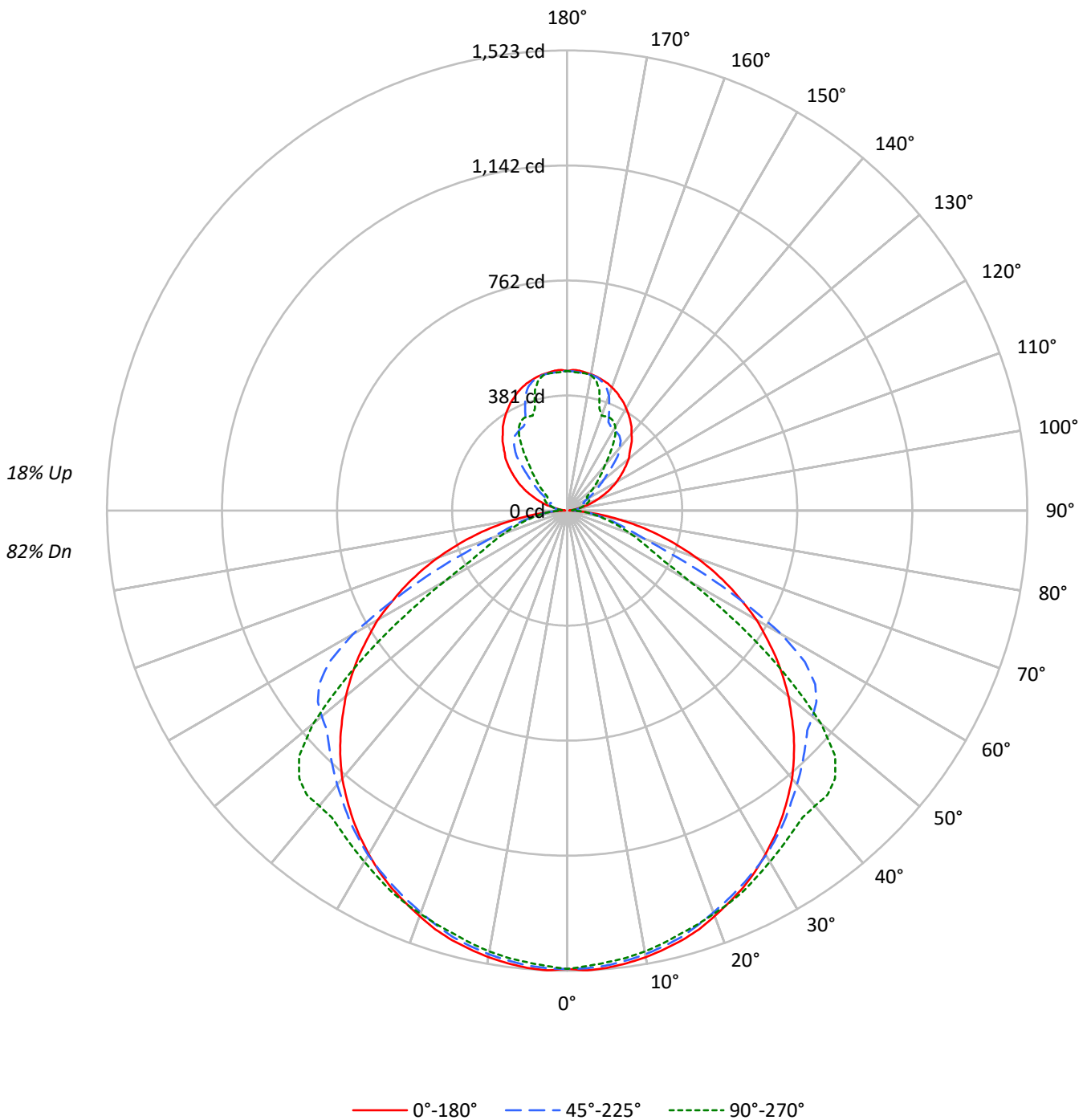
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5467.6 lumens
Efficiency: 92.7%
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.33 / 1.45
Luminous Opening: Rectangular (W 1.07' x L: 4.14' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.9
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	50	30	10	0	
RCR																						
0	106	106	106	106	102	102	102	102	94	94	94	86	86	86	79	79	79	76				76
1	97	93	89	86	93	89	86	83	82	80	77	76	74	72	70	69	67				64	
2	89	81	75	70	85	78	73	68	72	68	64	67	63	60	62	59	56				53	
3	81	71	64	58	77	69	62	57	64	58	54	59	54	51	54	51	48				45	
4	74	63	55	49	70	61	54	48	56	50	46	52	47	43	48	44	41				38	
5	68	56	48	42	65	54	47	41	50	44	39	47	42	37	44	39	35				33	
6	62	50	42	37	60	49	41	36	45	39	34	42	37	33	39	35	31				29	
7	58	46	38	32	55	44	37	31	41	35	30	38	33	29	36	31	27				25	
8	54	41	34	28	51	40	33	28	37	31	27	35	30	26	33	28	24				23	
9	50	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22				20	
10	47	35	28	23	45	34	27	22	32	26	22	30	25	21	28	23	20				18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3694	3694	3694
5°	3713	3693	3669
10°	3711	3686	3664
15°	3710	3683	3655
20°	3700	3666	3679
25°	3699	3675	3726
30°	3691	3703	3773
35°	3686	3727	3861
40°	3681	3763	4056
45°	3653	3832	4318
50°	3621	4015	4151
55°	3574	4253	3298
60°	3526	3983	2264
65°	3399	2927	1740
70°	3239	1915	1587
75°	2973	1665	1486
80°	2552	1556	1444
85°	1816	1732	1676



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	143.6	2.6	2.4	0°	1517	1517	1517	1517	1517	
10°-20°	412.9	7.6	7.0	5°	1519	1518	1511	1503	1501	144
20°-30°	635.6	11.6	10.8	15°	1472	1472	1461	1453	1450	415
30°-40°	791.3	14.5	13.4	25°	1377	1377	1368	1385	1387	635
40°-50°	878.0	16.1	14.9	35°	1240	1240	1254	1290	1299	776
50°-60°	793.9	14.5	13.5	45°	1061	1070	1113	1226	1254	818
60°-70°	497.5	9.1	8.4	55°	842	872	1002	906	777	752
70°-80°	252.7	4.6	4.3	65°	590	668	508	337	302	583
80°-90°	76.2	1.4	1.3	75°	316	372	177	168	158	334
90°-100°	27.1	0.5	0.5	85°	65	77	62	64	60	80
100°-110°	56.3	1.0	1.0	90°	8	29	20	18	18	7
110°-120°	88.6	1.6	1.5	95°	9	30	22	22	19	13
120°-130°	124.8	2.3	2.1	105°	67	37	55	57	55	71
130°-140°	163.4	3.0	2.8	115°	147	102	59	79	82	145
140°-150°	191.9	3.5	3.3	125°	226	198	116	89	79	203
150°-160°	168.1	3.1	2.8	135°	298	239	216	165	146	230
160°-170°	121.6	2.2	2.1	145°	364	341	302	289	262	227
170°-180°	43.9	0.8	0.7	155°	414	416	323	331	338	191
0°-30°	1192.1	21.8	20.2	165°	448	449	443	433	412	127
0°-40°	1983.4	36.3	33.6	175°	465	463	459	459	458	44
0°-60°	3655.3	66.9	62.0	180°	462	462	462	462	462	
0°-90°	4481.6	82.0	76.0							
90°-120°	172.1	3.1	2.9							
90°-150°	652.3	11.9	11.1							
90°-180°	986.0	18.0	16.7							
0°-180°	5467.6	100.0	92.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517	1517	1517	1517	1517
2.5°	1523	1523	1516	1508	1509
5°	1519	1518	1511	1503	1501
7.5°	1511	1511	1502	1495	1493
10°	1501	1500	1491	1485	1482
12.5°	1487	1487	1477	1470	1467
15°	1472	1472	1461	1453	1450
17.5°	1453	1453	1439	1436	1436
20°	1428	1432	1415	1420	1420
22.5°	1403	1405	1392	1404	1405
25°	1377	1377	1368	1385	1387
27.5°	1347	1345	1343	1364	1364
30°	1313	1312	1317	1338	1342
32.5°	1278	1277	1286	1312	1321
35°	1240	1240	1254	1290	1299
37.5°	1199	1198	1218	1264	1280
40°	1158	1157	1184	1240	1276
42.5°	1111	1114	1149	1230	1276
45°	1061	1070	1113	1226	1254
47.5°	1008	1022	1078	1203	1203
50°	956	977	1060	1157	1096
52.5°	900	927	1040	1052	941
55°	842	872	1002	906	777
57.5°	781	818	933	744	613
60°	724	765	818	590	465
62.5°	655	712	661	443	359
65°	590	668	508	337	302
67.5°	523	633	366	280	260
70°	455	585	269	239	223
72.5°	384	502	217	202	189
75°	316	372	177	168	158
77.5°	249	236	140	137	127
80°	182	151	111	111	103
82.5°	124	110	85	88	82
85°	65	77	62	64	60
87.5°	28	52	41	45	36
90°	8	29	20	18	18
92.5°	6	27	18	18	17
95°	9	30	22	22	19
97.5°	20	34	32	32	27
100°	32	35	39	40	37
102.5°	48	35	46	49	47
105°	67	37	55	57	55
107.5°	86	49	60	66	64
110°	105	63	61	73	71



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126	81	62	76	77
115°	147	102	59	79	82
117.5°	167	129	64	77	82
120°	188	155	78	74	81
122.5°	207	180	96	76	78
125°	226	198	116	89	79
127.5°	246	211	134	106	92
130°	266	221	157	124	110
132.5°	280	230	183	143	128
135°	298	239	216	165	146
137.5°	317	249	250	192	170
140°	331	271	270	223	192
142.5°	350	306	291	259	228
145°	364	341	302	289	262
147.5°	378	369	306	311	297
150°	391	388	311	325	319
152.5°	404	402	313	330	333
155°	414	416	323	331	338
157.5°	425	427	363	329	337
160°	434	435	405	346	334
162.5°	442	444	429	394	354
165°	448	449	443	433	412
167.5°	454	454	452	448	441
170°	458	458	456	456	455
172.5°	461	461	458	459	458
175°	465	463	459	459	458
177.5°	466	464	461	459	459
180°	462	462	462	462	462

(END OF REPORT)