

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: 215P100

Luminaire Tested: **WE-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 215P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WE-232A
Description: 4 FT. Economy Wrap Luminaire with an acrylic prismatic lens
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

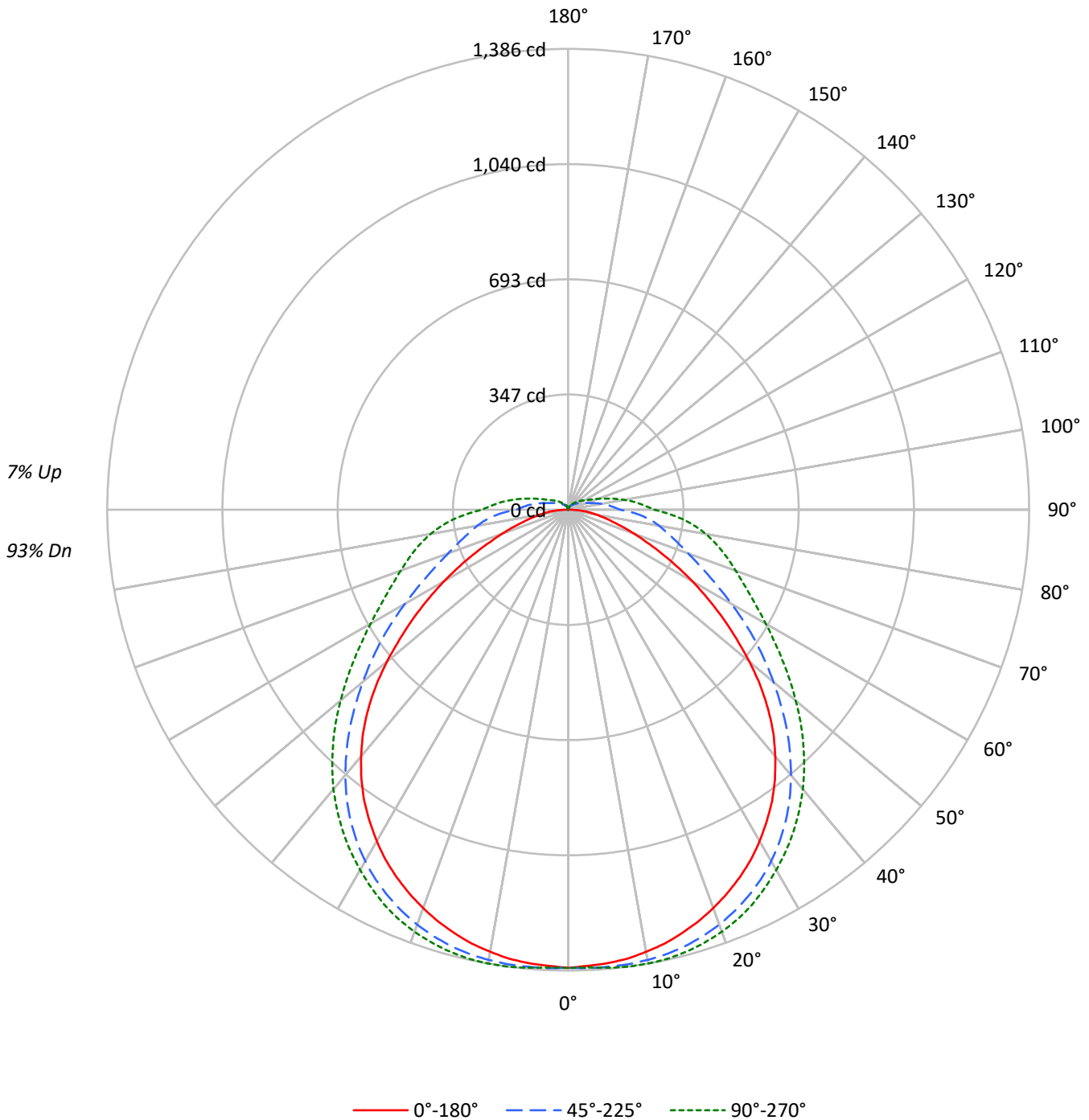
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4462.8 lumens
Efficiency: 79.7%
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.34 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.6' x L: 3.92' x H: 0.1')
CIE Type: Direct

Input Watts (W): 57.5
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

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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	94	94	94	94	91	91	91	91	86	86	86	81	81	81	76	76	76	74
1	84	80	76	73	82	78	74	71	73	71	68	69	67	65	66	64	62	60
2	77	70	64	59	74	68	62	58	64	60	56	60	57	54	57	54	52	50
3	70	61	54	49	67	59	53	48	56	51	47	53	49	45	51	47	44	42
4	64	54	47	41	62	53	46	41	50	44	40	47	43	39	45	41	38	36
5	59	48	41	36	57	47	40	35	45	39	34	43	38	34	41	36	33	31
6	54	44	36	31	52	42	36	31	40	35	30	39	33	29	37	32	29	27
7	50	39	32	28	49	39	32	27	37	31	27	35	30	26	34	29	26	24
8	47	36	29	25	45	35	29	24	34	28	24	32	27	23	31	26	23	21
9	44	33	26	22	42	32	26	22	31	25	21	30	25	21	29	24	21	19
10	41	30	24	20	40	30	24	20	29	23	19	28	23	19	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6268	6268	6268
5°	6236	6224	6221
10°	6206	6197	6213
15°	6167	6167	6193
20°	6112	6115	6153
25°	6048	6038	6085
30°	5954	5931	5975
35°	5827	5767	5851
40°	5628	5533	5695
45°	5332	5238	5486
50°	4883	4884	5242
55°	4324	4529	4995
60°	3748	4147	4805
65°	3136	3836	4730
70°	2615	3673	4837
75°	2190	3733	5122
80°	1980	4035	5562
85°	1801	4521	6130



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.4	2.9	2.3	0°	1378	1378	1378	1378	1378	
10°-20°	382.5	8.6	6.8	5°	1369	1375	1380	1385	1383	130
20°-30°	587.8	13.2	10.5	15°	1319	1337	1359	1374	1376	372
30°-40°	709.6	15.9	12.7	25°	1220	1252	1282	1306	1310	562
40°-50°	716.2	16.0	12.8	35°	1069	1108	1141	1172	1181	667
50°-60°	611.0	13.7	10.9	45°	851	884	929	983	1000	653
60°-70°	457.9	10.3	8.2	55°	566	609	686	760	785	507
70°-80°	335.2	7.5	6.0	65°	308	352	464	561	602	309
80°-90°	226.9	5.1	4.1	75°	137	188	324	441	479	149
90°-100°	127.9	2.9	2.3	85°	45	100	226	322	349	45
100°-110°	76.3	1.7	1.4	90°	1	49	156	237	259	3
110°-120°	43.0	1.0	0.8	95°	1	40	128	192	214	0
120°-130°	26.3	0.6	0.5	105°	0	29	77	114	129	0
130°-140°	15.8	0.4	0.3	115°	1	21	48	65	71	1
140°-150°	9.1	0.2	0.2	125°	1	16	33	43	47	1
150°-160°	4.5	0.1	0.1	135°	2	12	23	29	31	1
160°-170°	1.3	0.0	0.0	145°	3	9	16	20	21	2
170°-180°	0.0	0.0	0.0	155°	3	7	10	13	14	2
0°-30°	1101.8	24.7	19.7	165°	4	5	6	7	7	1
0°-40°	1811.4	40.6	32.3	175°	0	0	0	0	0	0
0°-60°	3138.6	70.3	56.0	180°	0	0	0	0	0	
0°-90°	4158.6	93.2	74.3							
90°-120°	247.2	5.5	4.4							
90°-150°	298.4	6.7	5.3							
90°-180°	304.0	6.8	5.4							
0°-180°	4462.8	100.0	79.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378	1378	1378	1378	1378
2.5°	1373	1378	1380	1382	1378
5°	1369	1375	1380	1385	1383
7.5°	1362	1370	1379	1387	1386
10°	1350	1361	1375	1386	1386
12.5°	1337	1351	1369	1382	1383
15°	1319	1337	1359	1374	1376
17.5°	1299	1320	1345	1363	1365
20°	1275	1300	1328	1348	1351
22.5°	1249	1278	1307	1329	1333
25°	1220	1252	1282	1306	1310
27.5°	1188	1222	1254	1278	1282
30°	1151	1188	1221	1245	1251
32.5°	1111	1150	1183	1210	1218
35°	1069	1108	1141	1172	1181
37.5°	1021	1060	1094	1129	1141
40°	969	1007	1042	1083	1098
42.5°	913	948	987	1035	1050
45°	851	884	929	983	1000
47.5°	784	816	867	929	948
50°	712	746	806	873	893
52.5°	637	677	745	816	839
55°	566	609	686	760	785
57.5°	497	542	626	705	734
60°	431	474	567	652	686
62.5°	367	410	513	604	642
65°	308	352	464	561	602
67.5°	256	301	421	524	567
70°	211	257	383	493	536
72.5°	171	219	352	466	507
75°	137	188	324	441	479
77.5°	109	163	299	414	450
80°	87	143	277	386	420
82.5°	67	122	254	355	387
85°	45	100	226	322	349
87.5°	21	75	193	280	305
90°	1	49	156	237	259
92.5°	1	44	141	213	235
95°	1	40	128	192	214
97.5°	0	36	115	172	193
100°	0	33	102	152	171
102.5°	0	31	89	133	149
105°	0	29	77	114	129
107.5°	0	26	67	98	110
110°	0	24	59	84	95



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	23	53	73	82
115°	1	21	48	65	71
117.5°	1	20	44	58	63
120°	1	18	40	53	57
122.5°	1	17	36	48	52
125°	1	16	33	43	47
127.5°	1	15	30	39	43
130°	1	14	27	35	39
132.5°	2	13	25	32	35
135°	2	12	23	29	31
137.5°	2	11	21	27	28
140°	2	10	20	24	25
142.5°	3	10	18	22	23
145°	3	9	16	20	21
147.5°	3	8	15	18	19
150°	3	8	13	17	17
152.5°	3	7	11	15	15
155°	3	7	10	13	14
157.5°	4	6	9	11	12
160°	4	6	8	10	10
162.5°	4	5	7	8	9
165°	4	5	6	7	7
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)