

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: 120P102

Luminaire Tested: **WB-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 120P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WB-232A
Description: Wide Surface Mount Wraparound Luminaire with an acrylic lens.
Light Source: Two - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.9

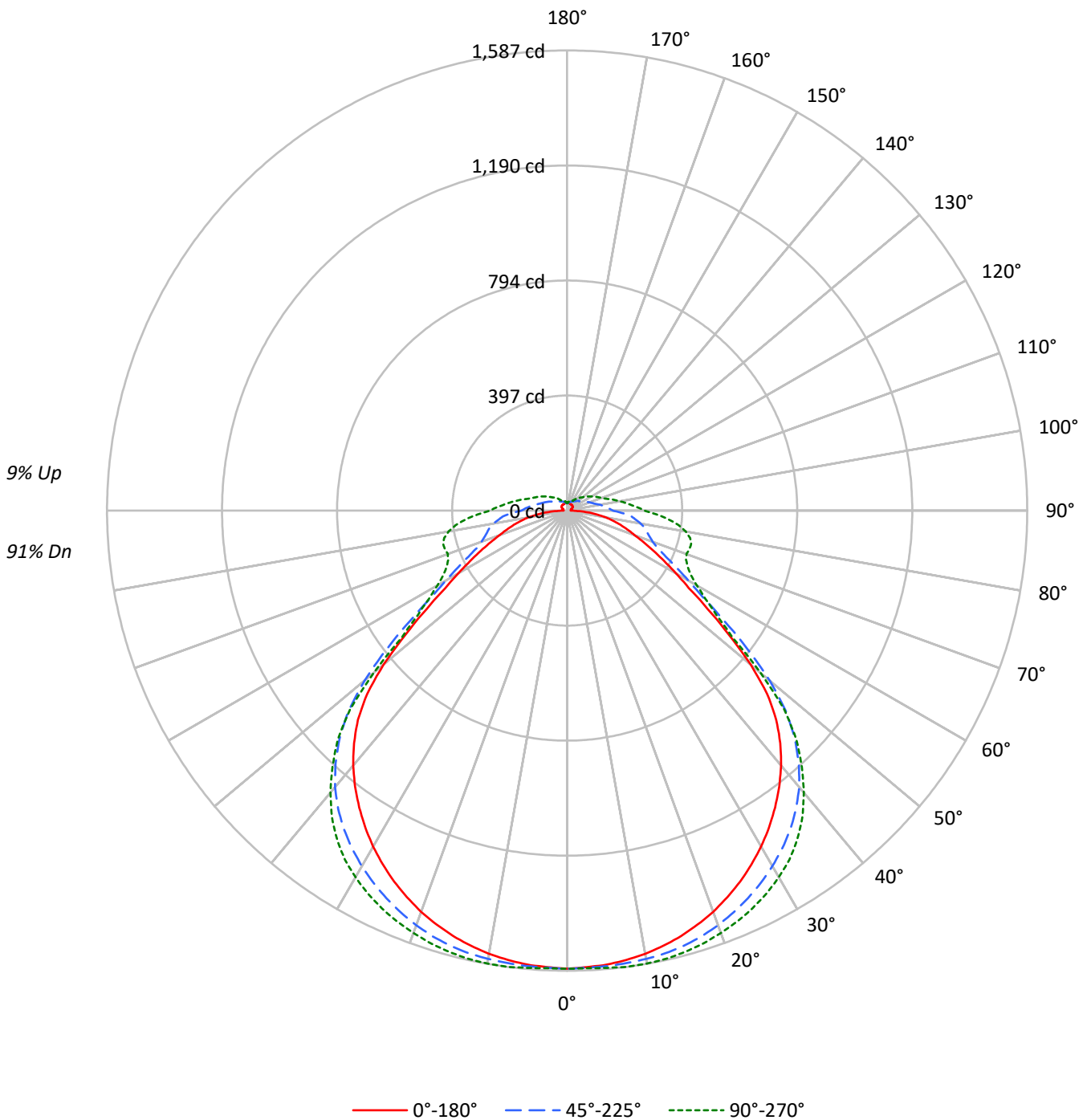
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4877.1 lumens
Efficiency: 85.6%
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.36 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.99' x L: 3.99' x H: 0.17')
CIE Type: Direct

Input Watts (W): 57.8
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	100	100	100	100	97	97	97	97	91	91	91	85	85	85	80	80	80	78
1	91	86	83	79	88	84	80	77	79	76	73	74	72	70	70	68	66	64
2	83	76	70	65	80	73	68	63	69	65	61	65	61	58	61	58	56	54
3	76	67	60	54	73	65	58	53	61	56	51	58	53	50	55	51	48	46
4	69	59	52	46	67	58	51	46	55	49	44	52	47	43	49	45	41	39
5	64	53	46	40	62	52	45	40	49	43	38	47	41	37	44	40	36	34
6	59	48	41	35	57	47	40	35	45	38	34	42	37	33	40	36	32	30
7	55	44	36	31	53	43	36	31	41	34	30	39	33	29	37	32	29	27
8	51	40	33	28	49	39	32	27	37	31	27	36	30	26	34	29	26	24
9	48	37	30	25	46	36	29	25	34	28	24	33	27	24	31	27	23	22
10	45	34	27	23	43	33	27	22	32	26	22	30	25	22	29	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4285	4285	4285
5°	4264	4238	4247
10°	4243	4214	4242
15°	4218	4197	4232
20°	4188	4168	4216
25°	4145	4129	4199
30°	4091	4085	4169
35°	4021	4026	4101
40°	3927	3921	3942
45°	3755	3708	3676
50°	3320	3271	3060
55°	2637	2564	2396
60°	2190	2081	2169
65°	1932	1827	2162
70°	1764	1770	2378
75°	1722	1924	2856
80°	1705	2190	3323
85°	1516	2555	3757



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	150.4	3.1	2.6	0°	1580	1580	1580	1580	1580	
10°-20°	438.3	9.0	7.7	5°	1572	1574	1577	1585	1583	149
20°-30°	678.2	13.9	11.9	15°	1519	1532	1554	1574	1575	429
30°-40°	831.7	17.1	14.6	25°	1412	1439	1475	1507	1513	650
40°-50°	832.2	17.1	14.6	35°	1250	1290	1342	1379	1384	781
50°-60°	589.4	12.1	10.3	45°	1020	1067	1110	1122	1119	777
60°-70°	382.6	7.8	6.7	55°	591	652	657	660	628	539
70°-80°	306.6	6.3	5.4	65°	328	323	375	423	458	329
80°-90°	228.2	4.7	4.0	75°	190	189	285	374	443	201
90°-100°	137.4	2.8	2.4	85°	72	109	221	316	352	72
100°-110°	96.3	2.0	1.7	90°	12	54	157	239	266	10
110°-120°	69.3	1.4	1.2	95°	12	49	135	199	221	10
120°-130°	49.8	1.0	0.9	105°	14	47	95	135	152	15
130°-140°	35.9	0.7	0.6	115°	19	40	72	101	112	19
140°-150°	24.4	0.5	0.4	125°	24	36	55	75	84	21
150°-160°	15.4	0.3	0.3	135°	24	35	47	59	63	19
160°-170°	8.5	0.2	0.1	145°	25	34	39	46	47	16
170°-180°	2.5	0.1	0.0	155°	25	31	34	36	36	12
0°-30°	1266.9	26.0	22.2	165°	26	29	30	31	33	7
0°-40°	2098.6	43.0	36.8	175°	27	26	26	24	27	3
0°-60°	3520.2	72.2	61.8	180°	26	26	26	26	26	
0°-90°	4437.5	91.0	77.9							
90°-120°	303.0	6.2	5.3							
90°-150°	413.1	8.5	7.2							
90°-180°	440.0	9.0	7.7							
0°-180°	4877.1	100.0	85.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580	1580	1580	1580	1580
2.5°	1576	1579	1578	1583	1580
5°	1572	1574	1577	1585	1583
7.5°	1563	1567	1574	1586	1587
10°	1552	1557	1570	1586	1586
12.5°	1537	1546	1564	1582	1583
15°	1519	1532	1554	1574	1575
17.5°	1497	1514	1540	1562	1565
20°	1473	1492	1522	1546	1550
22.5°	1443	1467	1500	1528	1534
25°	1412	1439	1475	1507	1513
27.5°	1376	1409	1447	1481	1489
30°	1338	1373	1416	1453	1460
32.5°	1296	1334	1381	1420	1427
35°	1250	1290	1342	1379	1384
37.5°	1201	1243	1297	1329	1333
40°	1148	1191	1245	1270	1270
42.5°	1088	1133	1182	1199	1198
45°	1020	1067	1110	1122	1119
47.5°	936	985	1022	1026	1016
50°	826	883	912	907	870
52.5°	702	767	784	772	719
55°	591	652	657	660	628
57.5°	498	553	553	579	565
60°	433	465	482	517	516
62.5°	377	387	424	464	481
65°	328	323	375	423	458
67.5°	285	271	337	392	444
70°	248	232	314	376	438
72.5°	218	207	298	374	442
75°	190	189	285	374	443
77.5°	163	170	274	370	434
80°	135	149	258	360	415
82.5°	106	129	238	343	388
85°	72	109	221	316	352
87.5°	35	80	188	278	309
90°	12	54	157	239	266
92.5°	12	51	146	218	244
95°	12	49	135	199	221
97.5°	13	49	125	181	203
100°	13	49	115	166	185
102.5°	13	48	104	150	168
105°	14	47	95	135	152
107.5°	15	45	88	123	137
110°	17	42	83	115	127



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18	41	77	108	119
115°	19	40	72	101	112
117.5°	20	40	67	94	104
120°	22	38	62	87	97
122.5°	23	37	58	81	90
125°	24	36	55	75	84
127.5°	24	36	53	70	78
130°	24	35	52	65	72
132.5°	24	35	50	61	67
135°	24	35	47	59	63
137.5°	25	36	44	56	60
140°	25	35	42	53	57
142.5°	25	35	40	49	52
145°	25	34	39	46	47
147.5°	25	33	37	43	43
150°	25	32	36	40	40
152.5°	25	32	35	38	37
155°	25	31	34	36	36
157.5°	26	31	33	35	35
160°	26	30	32	34	35
162.5°	26	29	31	33	34
165°	26	29	30	31	33
167.5°	27	28	30	30	32
170°	27	27	28	28	31
172.5°	27	27	27	26	29
175°	27	26	26	24	27
177.5°	27	27	25	23	28
180°	26	26	26	26	26

(END OF REPORT)