

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: P30646

Luminaire Tested: **I5-347T5-G-UNV-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30646
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I5-347T5-G-UNV-EBT1
Description: METALUX F-BAY I5 SERIES HIGH BAY 4' OPEN LINEAR FLUORESCENT LUMINAIRE WITH A WHITE REFLECTOR, GENERAL DISTRIBUTION, NO UPLIGHT
Light Source: (3) BIPIN T5 LINEAR FLUORESCENT LAMP 4100K - 4285 LUMENS EA GE F54T5-47W 841-ECO 47W
Ballast/Driver: GE ELECTRONIC BALLAST GE454MVPS90-E

Summary

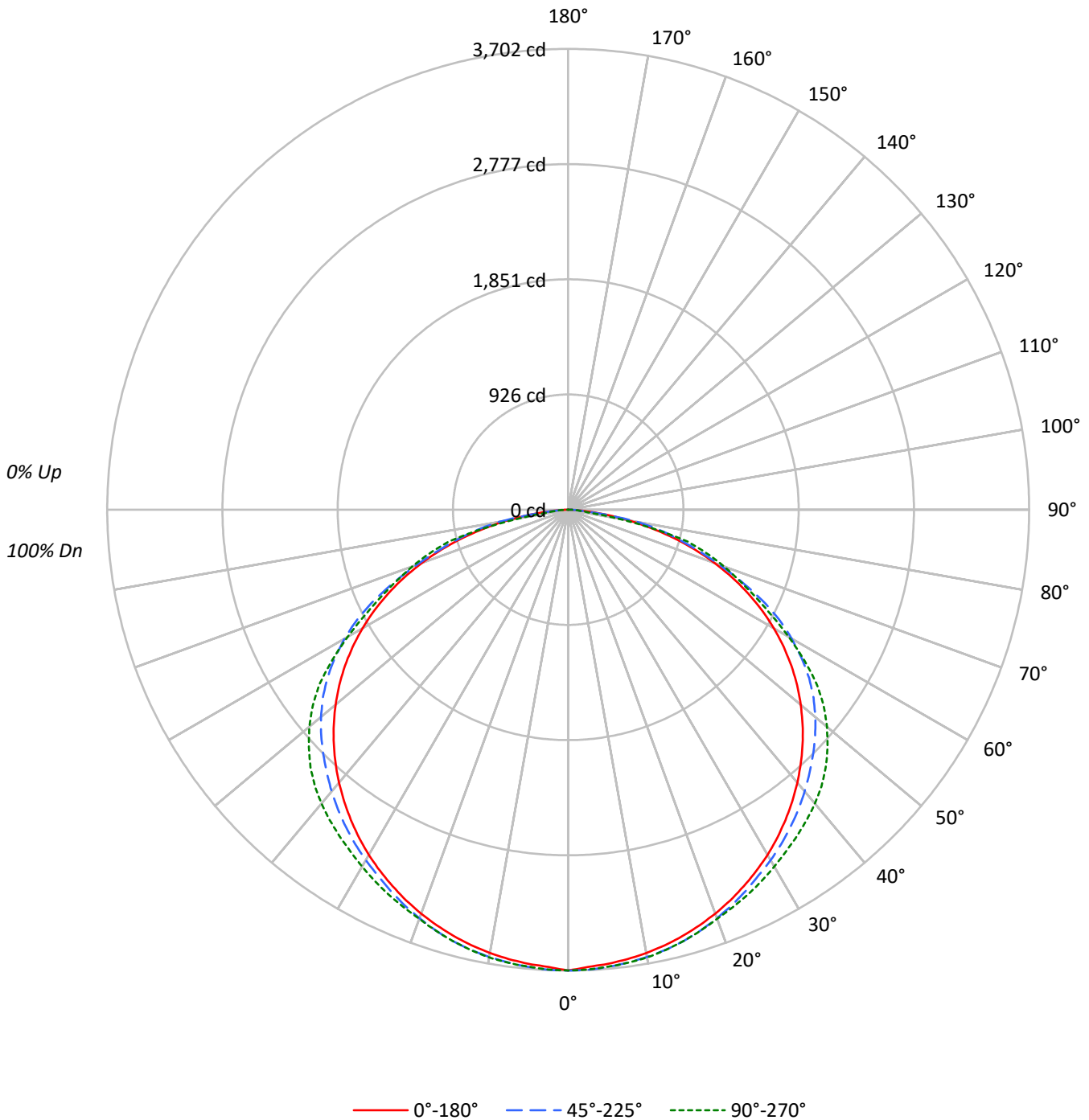
Lumens per Lamp: 4285 (3 lamps)
Luminaire Lumens: 11874.6 lumens
Efficiency: 92.4%
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.34 / 1.46
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 165.8
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	110	110	110	110	107	107	107	107	103	103	103		98	98	98		94	94	94	92
1	100	96	91	88	98	93	90	86	89	86	84		86	83	81		83	80	79	77
2	91	83	76	71	88	81	75	70	78	72	68		75	70	67		72	68	65	63
3	82	72	64	58	80	71	63	57	68	62	56		65	60	55		63	58	54	52
4	75	63	55	49	73	62	54	48	60	53	48		58	52	47		56	51	46	44
5	69	56	48	42	67	55	47	41	53	46	41		52	45	40		50	44	40	38
6	63	51	42	36	62	50	42	36	48	41	35		46	40	35		45	39	35	33
7	59	46	37	32	57	45	37	31	44	36	31		42	36	31		41	35	31	29
8	54	42	34	28	53	41	33	28	40	33	28		39	32	28		37	32	27	26
9	51	38	30	25	49	38	30	25	36	30	25		35	29	25		34	29	25	23
10	48	35	28	23	46	35	27	23	34	27	22		33	27	22		32	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11340	11340	11340
5°	11260	11337	11331
10°	11248	11347	11363
15°	11245	11375	11372
20°	11256	11383	11403
25°	11279	11414	11532
30°	11326	11499	11708
35°	11376	11637	11970
40°	11449	11816	12324
45°	11532	12048	12676
50°	11618	12348	12924
55°	11691	12615	13004
60°	11695	12706	12541
65°	11568	12438	12025
70°	11204	11554	11903
75°	10392	10853	11753
80°	8679	9914	6756
85°	4921	3550	3163



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	350.3	2.9	2.7	0°	3702	3702	3702	3702	3702	
10°-20°	1010.6	8.5	7.9	5°	3662	3674	3687	3695	3685	348
20°-30°	1560.4	13.1	12.1	15°	3546	3564	3587	3594	3586	1002
30°-40°	1953.8	16.5	15.2	25°	3337	3363	3377	3410	3412	1540
40°-50°	2148.3	18.1	16.7	35°	3042	3059	3112	3181	3201	1905
50°-60°	2068.3	17.4	16.1	45°	2662	2666	2781	2899	2926	2054
60°-70°	1633.0	13.8	12.7	55°	2189	2186	2362	2434	2435	1954
70°-80°	962.8	8.1	7.5	65°	1596	1588	1716	1673	1659	1574
80°-90°	185.4	1.6	1.4	75°	878	887	917	993	993	923
90°-100°	1.7	0.0	0.0	85°	140	194	101	95	90	193
100°-110°	0.0	0.0	0.0	90°	3	14	15	15	11	6
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	2921.2	24.6	22.7	165°	0	0	0	0	0	0
0°-40°	4875.1	41.1	37.9	175°	0	0	0	0	0	0
0°-60°	9091.7	76.6	70.7	180°	0	0	0	0	0	0
0°-90°	11872.8	100.0	92.4							
90°-120°	1.7	0.0	0.0							
90°-150°	1.7	0.0	0.0							
90°-180°	2.0	0.0	0.0							
0°-180°	11874.6	100.0	92.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3702	3702	3702	3702	3702
2.5°	3676	3687	3700	3706	3697
5°	3662	3674	3687	3695	3685
7.5°	3642	3654	3669	3681	3672
10°	3616	3629	3648	3659	3653
12.5°	3585	3599	3621	3633	3623
15°	3546	3564	3587	3594	3586
17.5°	3502	3523	3543	3553	3544
20°	3453	3476	3492	3506	3498
22.5°	3398	3422	3438	3456	3456
25°	3337	3363	3377	3410	3412
27.5°	3272	3297	3312	3358	3363
30°	3202	3224	3251	3304	3310
32.5°	3125	3144	3185	3243	3255
35°	3042	3059	3112	3181	3201
37.5°	2955	2969	3036	3120	3145
40°	2863	2873	2955	3054	3082
42.5°	2765	2771	2868	2981	3011
45°	2662	2666	2781	2899	2926
47.5°	2553	2557	2690	2805	2825
50°	2438	2444	2591	2694	2712
52.5°	2317	2318	2483	2571	2587
55°	2189	2186	2362	2434	2435
57.5°	2052	2046	2223	2272	2245
60°	1909	1898	2074	2076	2047
62.5°	1756	1746	1910	1874	1844
65°	1596	1588	1716	1673	1659
67.5°	1427	1425	1502	1489	1486
70°	1251	1251	1290	1320	1329
72.5°	1067	1071	1093	1159	1168
75°	878	887	917	993	993
77.5°	684	688	751	760	698
80°	492	498	562	441	383
82.5°	305	341	292	178	156
85°	140	194	101	95	90
87.5°	36	46	50	50	45
90°	3	14	15	15	11
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
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)