

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: p30645

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: p30645
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I5-347T5-UNV-EBT1
Description: METALUX F-BAY I5 SERIES HIGH BAY 4' OPEN LINEAR FLUORESCENT LUMINAIRE WITH A SPECULAR ALUMINUM NARROW DISTRIBUTION REFLECTOR,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

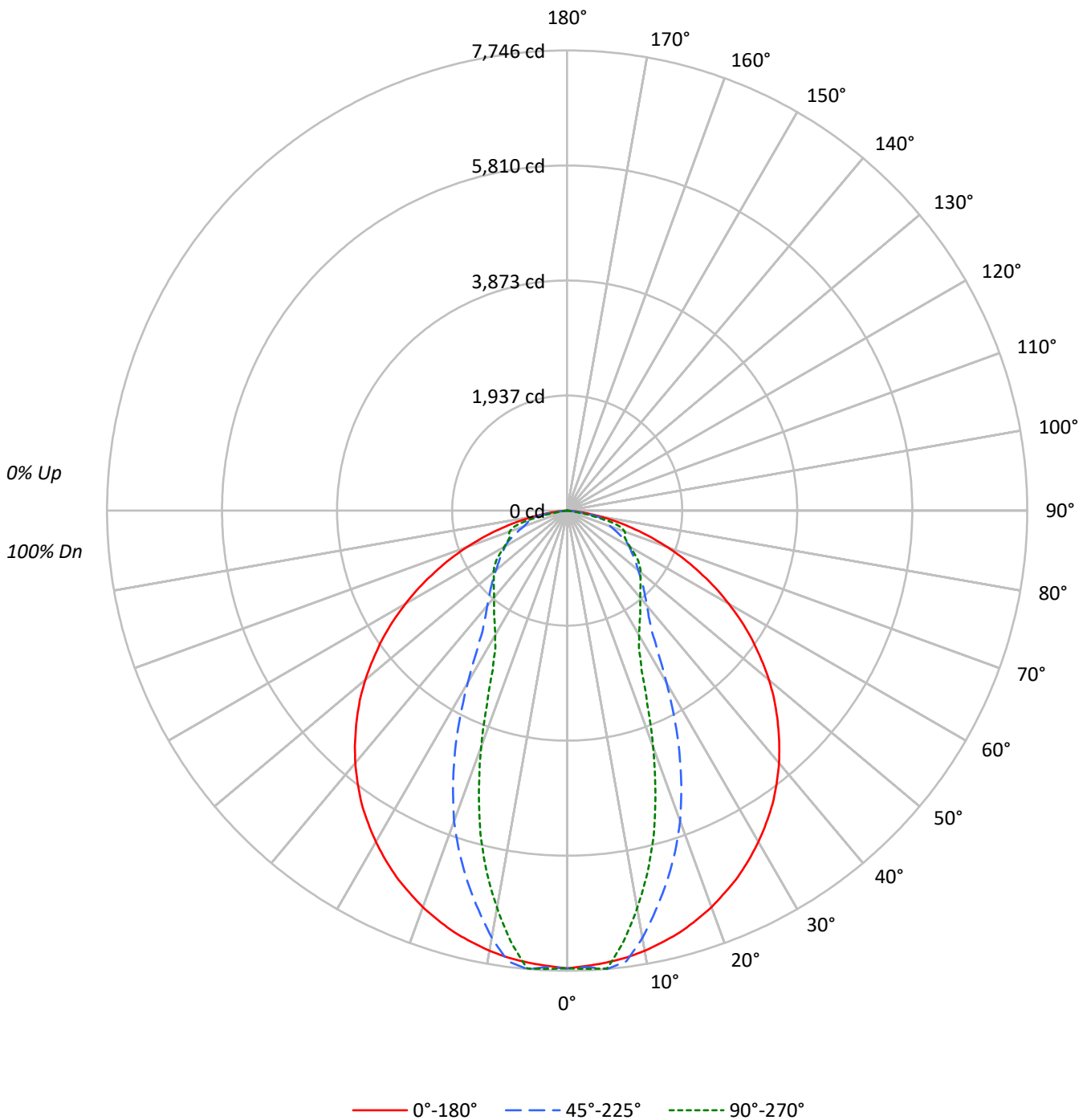
Summary

Lumens per Lamp: 4285 (3 lamps)
Luminaire Lumens: 12264.4 lumens
Efficiency: 95.4%
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.68 / 0.85
Luminous Opening: Rectangular (W 0.92' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 165.5
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	114	114	114	114	111	111	111	111	106	106	106	101	101	101	97	97	97	95
1	105	101	97	94	102	99	95	92	95	92	89	91	89	87	88	86	84	82
2	96	89	83	78	94	88	82	78	84	80	76	81	77	74	78	75	72	70
3	89	80	73	67	87	78	72	66	75	70	65	73	68	64	70	66	63	61
4	82	72	64	58	80	70	63	58	68	62	57	66	61	56	64	59	56	54
5	76	65	57	51	74	64	57	51	62	55	50	60	54	50	58	53	49	48
6	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	49	44	43
7	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39
8	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35
9	59	47	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32
10	55	43	36	32	54	43	36	32	42	36	32	41	35	31	40	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23605	23605	23605
5°	23480	23819	23788
10°	23403	22707	21130
15°	23303	20534	17877
20°	23164	18138	13805
25°	22994	15098	10021
30°	22776	11818	8563
35°	22546	9285	8018
40°	22189	8349	7646
45°	21708	7828	7555
50°	21140	7453	7711
55°	20353	7311	7771
60°	19249	7389	7480
65°	17816	7140	7734
70°	16014	6905	9216
75°	13350	7847	9480
80°	9632	7568	3546
85°	4218	211	141



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	720.4	5.9	5.6	0°	7706	7706	7706	7706	7706	
10°-20°	1819.6	14.8	14.2	5°	7636	7647	7746	7763	7736	726
20°-30°	2157.3	17.6	16.8	15°	7348	7306	6475	5901	5637	2073
30°-40°	2099.7	17.1	16.3	25°	6803	6056	4467	3300	2965	3133
40°-50°	1891.0	15.4	14.7	35°	6029	4596	2483	2211	2144	3766
50°-60°	1559.2	12.7	12.1	45°	5011	2846	1807	1760	1744	3865
60°-70°	1174.9	9.6	9.1	55°	3811	1513	1369	1458	1455	3399
70°-80°	737.2	6.0	5.7	65°	2458	889	985	1030	1067	2439
80°-90°	104.7	0.9	0.8	75°	1128	480	663	812	801	1207
90°-100°	0.4	0.0	0.0	85°	120	132	6	7	4	192
100°-110°	0.0	0.0	0.0	90°	2	4	2	4	0	3
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°	4697.3	38.3	36.5	165°	0	0	0	0	0	0
0°-40°	6797.0	55.4	52.9	175°	0	0	0	0	0	0
0°-60°	10247.2	83.6	79.7	180°	0	0	0	0	0	0
0°-90°	12264.0	100.0	95.4							
90°-120°	0.4	0.0	0.0							
90°-150°	0.4	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	12264.4	100.0	95.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7706	7706	7706	7706	7706
2.5°	7672	7666	7691	7722	7722
5°	7636	7647	7746	7763	7736
7.5°	7590	7660	7650	7423	7309
10°	7524	7630	7300	6934	6793
12.5°	7440	7522	6890	6433	6246
15°	7348	7306	6475	5901	5637
17.5°	7229	7006	6034	5264	4940
20°	7106	6707	5564	4604	4235
22.5°	6954	6376	5019	3921	3522
25°	6803	6056	4467	3300	2965
27.5°	6625	5706	3889	2802	2615
30°	6439	5367	3341	2533	2421
32.5°	6237	4993	2851	2346	2265
35°	6029	4596	2483	2211	2144
37.5°	5792	4164	2259	2071	2019
40°	5549	3727	2088	1952	1912
42.5°	5286	3279	1939	1841	1823
45°	5011	2846	1807	1760	1744
47.5°	4734	2424	1679	1673	1673
50°	4436	2041	1564	1597	1618
52.5°	4119	1724	1462	1528	1544
55°	3811	1513	1369	1458	1455
57.5°	3483	1331	1280	1349	1334
60°	3142	1174	1206	1232	1221
62.5°	2811	1036	1118	1128	1132
65°	2458	889	985	1030	1067
67.5°	2128	783	880	996	1064
70°	1788	675	771	980	1029
72.5°	1458	586	708	923	966
75°	1128	480	663	812	801
77.5°	828	379	596	585	513
80°	546	290	429	284	201
82.5°	303	236	173	53	20
85°	120	132	6	7	4
87.5°	21	4	2	1	0
90°	2	4	2	4	0
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)