

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: 14011.0

Luminaire Tested: **ABI-654T5-N-CL-UNV-EBTL2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14011.0
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ABI-654T5-N-CL-UNV-EBTL2-U
Description: ABI SERIES LUMINAIRE WITH SPECULAR ALUMINUM NARROW
DISTRIBUTION REFLECTOR WITH GASKETED CLEAR ACRYLIC LENS
AND DOORFRAME
Light Source: SIX 54 WATT T5HO - 4400 LUMENS EA
Ballast/Driver: ONE UNIVERSAL #B254PUNV-E, ONE UNIVERSAL B254PUNV-D

Summary

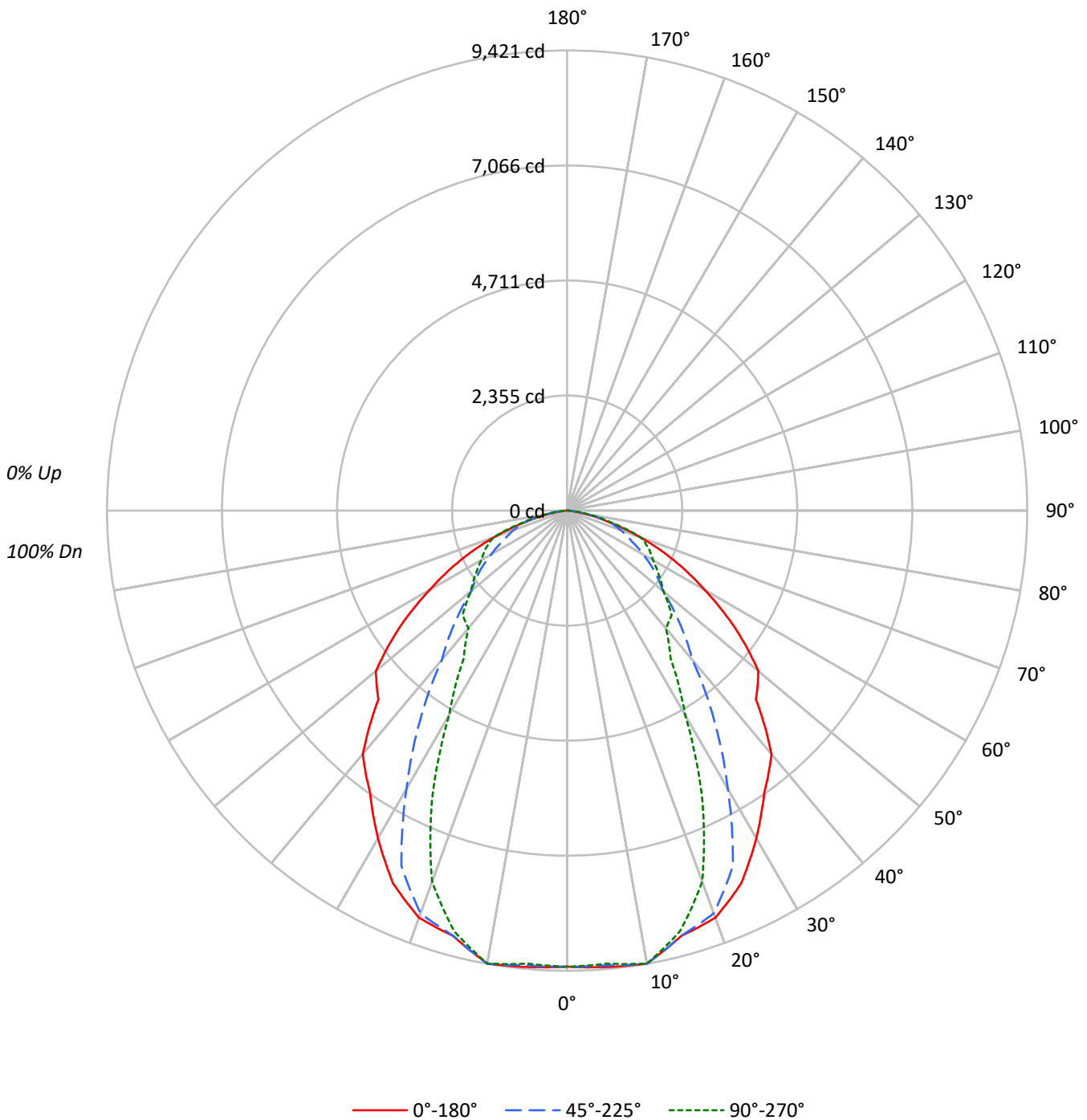
Lumens per Lamp: 4400 (6 lamps)
Luminaire Lumens: 18420.4 lumens
Efficiency: 69.8%
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 0.96 / 1.07
Luminous Opening: Rectangular (W 1.81' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 200
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	83	83	83	83	81	81	81	81	78	78	78	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	68	69	68	66	67	65	64	64	63	62	60
2	71	66	61	58	69	64	60	57	62	59	56	60	57	55	58	55	53	52
3	65	59	53	49	64	57	53	49	55	51	48	54	50	47	52	49	46	45
4	60	53	47	43	59	52	47	43	50	46	42	48	45	41	47	44	41	39
5	56	48	42	38	54	47	41	37	45	41	37	44	40	37	43	39	36	35
6	52	43	38	34	51	43	37	33	42	37	33	40	36	33	39	36	33	31
7	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28
8	45	37	31	27	44	36	31	27	35	30	27	34	30	27	34	30	27	25
9	43	34	28	25	42	33	28	25	33	28	25	32	28	25	31	27	24	23
10	40	31	26	23	39	31	26	23	30	26	23	30	26	23	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14195	14195	14195
5°	14310	14259	14205
10°	14533	14541	14533
15°	14189	14181	14038
20°	14348	14192	13078
25°	14131	13464	10995
30°	13592	11545	8483
35°	13061	9749	6847
40°	12917	7919	6238
45°	11752	6990	6500
50°	12086	6049	6091
55°	11135	5830	6071
60°	9886	5460	6168
65°	8689	5172	6625
70°	6995	5177	7151
75°	4874	5203	5444
80°	2678	3484	3878
85°	977	1587	1378



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	894.5	4.9	3.4	0°	9339	9339	9339	9339	9339	
10°-20°	2542.3	13.8	9.6	5°	9379	9373	9345	9316	9310	896
20°-30°	3510.2	19.1	13.3	15°	9017	9012	9012	8950	8921	2568
30°-40°	3400.9	18.5	12.9	25°	8426	8415	8028	6959	6556	3860
40°-50°	3023.2	16.4	11.5	35°	7039	6948	5254	3928	3690	4437
50°-60°	2370.3	12.9	9.0	45°	5467	5207	3252	3012	3024	4355
60°-70°	1655.8	9.0	6.3	55°	4202	2877	2200	2234	2291	3748
70°-80°	873.9	4.7	3.3	65°	2416	1347	1438	1705	1842	2388
80°-90°	149.2	0.8	0.6	75°	830	562	886	920	927	932
90°-100°	0.0	0.0	0.0	85°	56	84	91	91	79	114
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	6947.0	37.7	26.3							
0°-40°	10347.9	56.2	39.2							
0°-60°	15741.4	85.5	59.6							
0°-90°	18420.4	100.0	69.8							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	18420.4	100.0	69.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9339	9339	9339	9339	9339
5°	9379	9373	9345	9316	9310
10°	9416	9405	9421	9421	9416
15°	9017	9012	9012	8950	8921
20°	8870	8876	8774	8342	8085
25°	8426	8415	8028	6959	6556
30°	7744	7698	6578	5321	4833
35°	7039	6948	5254	3928	3690
40°	6510	6198	3991	3207	3144
45°	5467	5207	3252	3012	3024
50°	5111	4048	2558	2581	2576
55°	4202	2877	2200	2234	2291
60°	3252	1881	1796	1955	2029
65°	2416	1347	1438	1705	1842
70°	1574	955	1165	1529	1609
75°	830	562	886	920	927
80°	306	312	398	443	443
85°	56	84	91	91	79
90°	0	0	0	0	0

(END OF REPORT)