

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: P30406

Luminaire Tested: **HBI-554T5-M-A-UNV-EHT2-SDF-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30406
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBI-554T5-M-A-UNV-EHT2-SDF-U
Description: HBI SERIES, FULL BODY STEEL HOUSING, WITH FIVE T5HO LAMPS,
MEDIUM DISTRIBUTION MICRO-MATTE REFLECTOR AND PRISMATIC ACRYLIC LENS
IN SLOTTED DOORFRAME, NO UPLIGHT
Light Source: FIVE T5 HIGH OUTPUT LINEAR FLUORESCENT LAMPS - 4400 LUMENS EA
Ballast/Driver: ADVANCE ELECTRONIC BALLAST
ADVANCE ICN2S5490C, ICN4S5490C2LSG

Summary

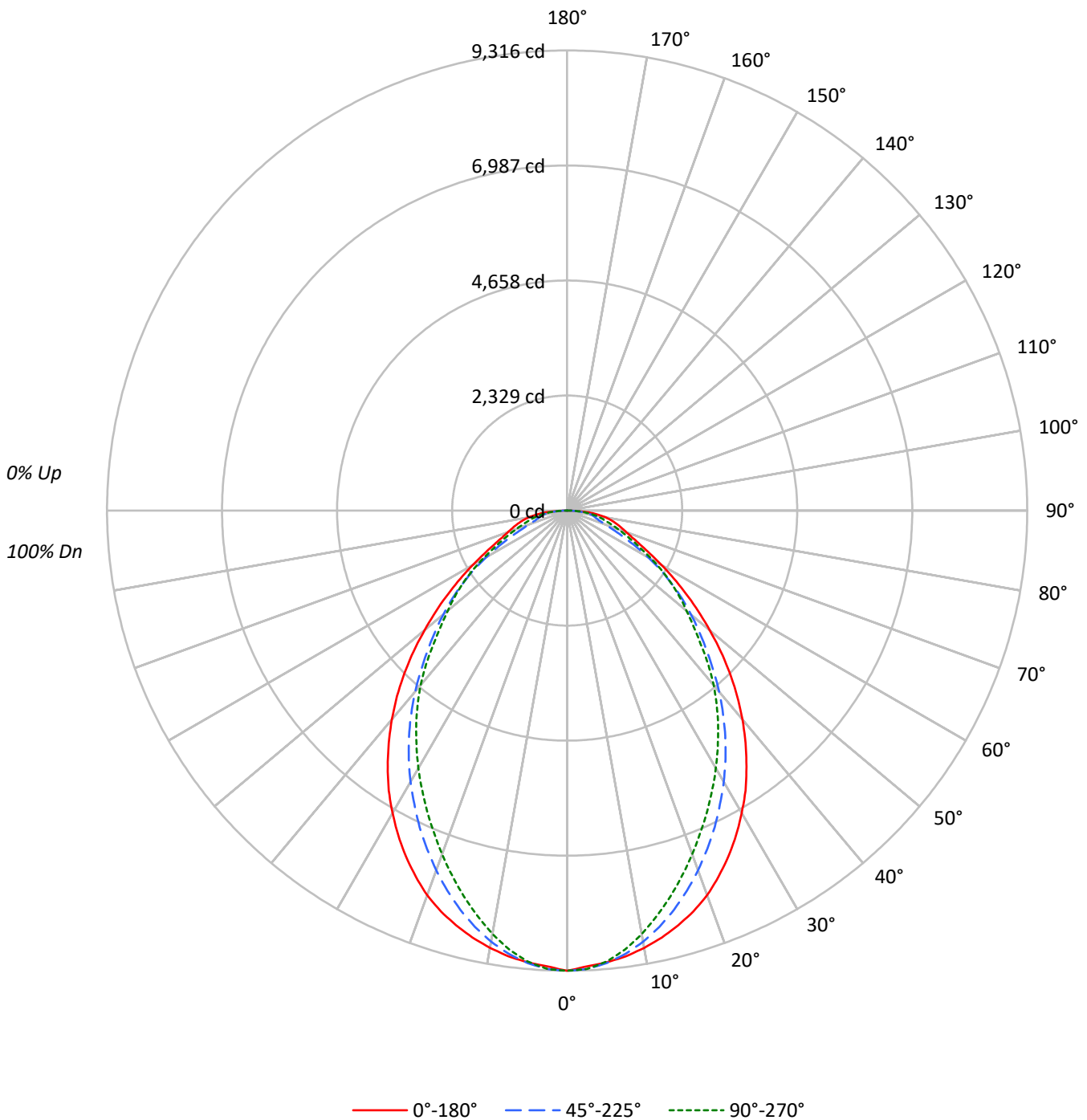
Lumens per Lamp: 4400 (5 lamps)
Luminaire Lumens: 18200.5 lumens
Efficiency: 82.7%
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1 / 1.14
Luminous Opening: Rectangular (W 1.21' x L: 3.79' x H: 0')
CIE Type: Direct

Input Watts (W): 251.7
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	50	30	10	0	
RCR																						
0	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	84	84	84	83	
1	91	87	84	81	89	85	83	80	82	80	77	79	77	75	76	74	73	76	74	73	71	
2	84	77	72	68	82	76	71	67	73	69	66	70	67	64	68	65	63	68	65	63	61	
3	77	69	63	58	75	68	62	58	65	61	57	63	59	56	61	58	55	61	58	55	53	
4	71	62	55	50	69	61	55	50	59	54	49	57	52	49	55	51	48	55	51	48	46	
5	66	56	49	44	64	55	49	44	54	48	43	52	47	43	50	46	43	50	46	43	41	
6	61	51	44	39	60	50	44	39	49	43	39	47	42	38	46	42	38	46	42	38	36	
7	57	47	40	35	56	46	40	35	45	39	35	44	38	35	43	38	34	43	38	34	33	
8	53	43	36	32	52	42	36	32	41	36	31	40	35	31	39	35	31	39	35	31	30	
9	50	40	33	29	49	39	33	29	38	33	29	37	32	29	37	32	28	37	32	28	27	
10	47	37	31	26	46	36	30	26	36	30	26	35	30	26	34	29	26	34	29	26	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21887	21887	21887
5°	21652	21685	21612
10°	21444	21146	20769
15°	21139	20341	19660
20°	20719	19369	18511
25°	20025	18322	17397
30°	19177	17202	16339
35°	18161	16001	15287
40°	16929	14678	14151
45°	15480	13244	12709
50°	13768	11952	11531
55°	12034	10609	10584
60°	10380	8871	9341
65°	9045	6954	8166
70°	8744	5619	7494
75°	9386	5592	7362
80°	10729	6832	7901
85°	11995	7790	8410



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	866.4	4.8	3.9	0°	9316	9316	9316	9316	9316	
10°-20°	2354.0	12.9	10.7	5°	9181	9198	9195	9183	9164	871
20°-30°	3282.2	18.0	14.9	15°	8691	8597	8363	8161	8083	2448
30°-40°	3555.5	19.5	16.2	25°	7725	7479	7068	6800	6711	3551
40°-50°	3170.1	17.4	14.4	35°	6332	6009	5579	5375	5330	3951
50°-60°	2371.5	13.0	10.8	45°	4659	4321	3986	3855	3825	3586
60°-70°	1426.5	7.8	6.5	55°	2938	2750	2590	2504	2584	2641
70°-80°	831.2	4.6	3.8	65°	1627	1519	1251	1307	1469	1652
80°-90°	343.2	1.9	1.6	75°	1034	864	616	713	811	1092
90°-100°	0.0	0.0	0.0	85°	445	386	289	278	312	461
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°	6502.6	35.7	29.6							
0°-40°	10058.0	55.3	45.7							
0°-60°	15599.6	85.7	70.9							
0°-90°	18200.5	100.0	82.7							
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°	18200.5	100.0	82.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9316	9316	9316	9316	9316
2.5°	9235	9265	9290	9299	9288
5°	9181	9198	9195	9183	9164
7.5°	9102	9094	9051	8993	8964
10°	8989	8964	8864	8754	8706
12.5°	8854	8797	8630	8474	8402
15°	8691	8597	8363	8161	8083
17.5°	8506	8363	8068	7835	7746
20°	8287	8096	7747	7492	7404
22.5°	8017	7799	7413	7148	7052
25°	7725	7479	7068	6800	6711
27.5°	7408	7136	6702	6442	6363
30°	7069	6779	6341	6092	6023
32.5°	6721	6399	5966	5736	5674
35°	6332	6009	5579	5375	5330
37.5°	5931	5595	5185	5002	4975
40°	5520	5178	4786	4621	4614
42.5°	5097	4754	4379	4235	4228
45°	4659	4321	3986	3855	3825
47.5°	4217	3910	3625	3502	3465
50°	3767	3504	3270	3160	3155
52.5°	3347	3121	2933	2832	2871
55°	2938	2750	2590	2504	2584
57.5°	2563	2405	2246	2173	2288
60°	2209	2073	1888	1852	1988
62.5°	1889	1776	1549	1559	1705
65°	1627	1519	1251	1307	1469
67.5°	1423	1315	1005	1111	1270
70°	1273	1148	818	956	1091
72.5°	1149	995	688	825	939
75°	1034	864	616	713	811
77.5°	920	740	561	605	700
80°	793	633	505	496	584
82.5°	635	526	414	387	454
85°	445	386	289	278	312
87.5°	219	205	143	141	162
90°	0	0	0	0	0

(END OF REPORT)