

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: 236p292

Luminaire Tested: **HBI-554T5-N-CL-UNV-EHT2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236p292
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBI-554T5-N-CL-UNV-EHT2-U
Description: HBI SERIES, FULL BODY STEEL HOUSING, WITH FIVE T5HO LAMPS
NARROW DISTRIBUTION SPECULAR REFLECTOR AND STANDARD DOORFRAME
WITH CLEAR ACRYLIC LENS, NO UPLIGHT
Light Source: FIVE T5 HIGH OUTPUT LINEAR FLUORESCENT LAMPS, F54T5 54W - 4400 LUMENS EA
Ballast/Driver: -

Summary

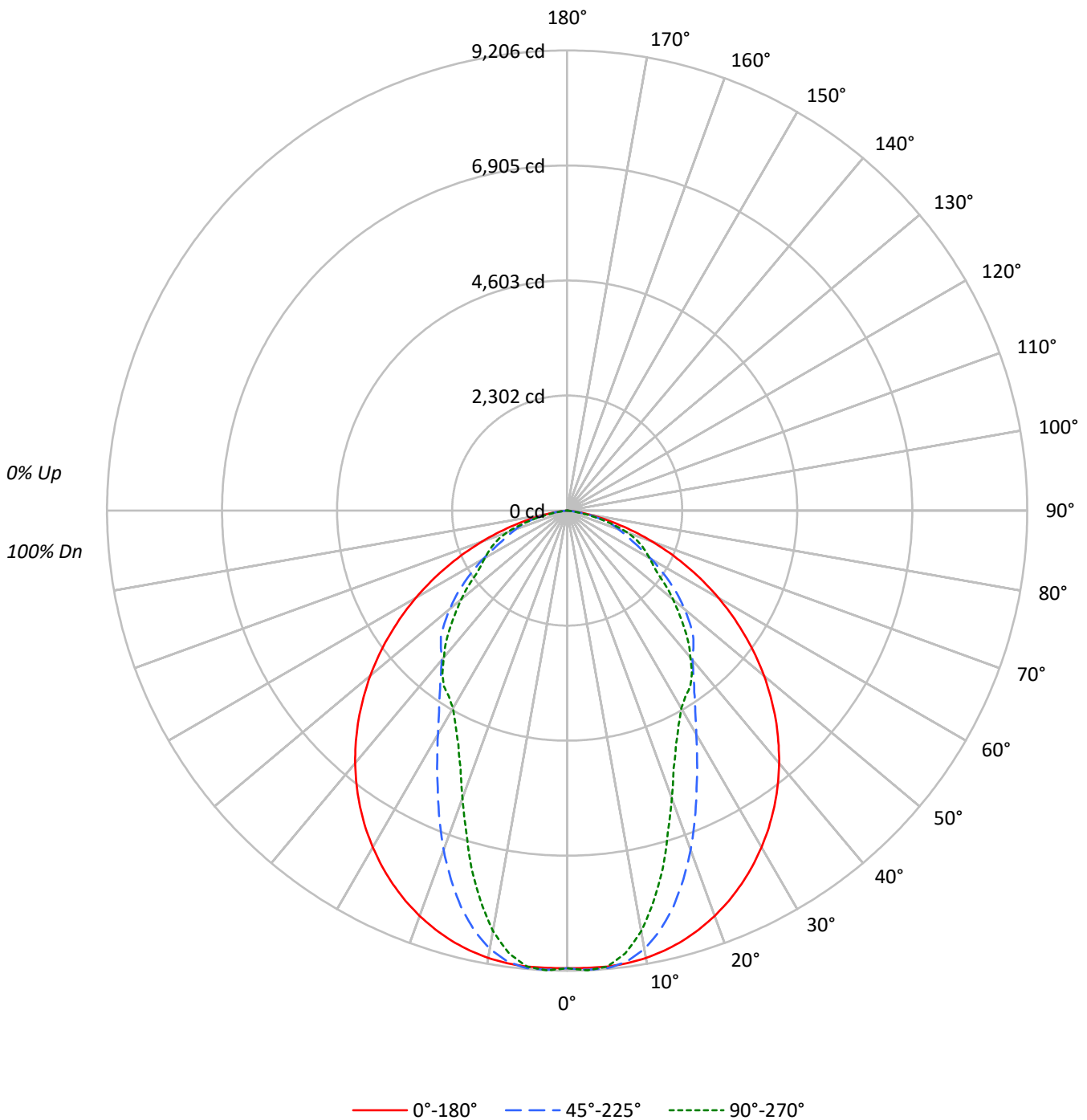
Lumens per Lamp: 4400 (5 lamps)
Luminaire Lumens: 17382.7 lumens
Efficiency: 79.0%
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.8 / 1.03
Luminous Opening: Rectangular (W 1.23' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 273
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									
RC	80									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	50	30	10	0													
RCR																																					
0	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																			
1	87	84	81	78	85	82	79	77	79	76	74	76	74	72	73	71	70	68																			
2	80	74	69	65	78	73	68	64	70	66	63	67	64	62	65	62	60	59																			
3	73	66	60	55	72	65	59	55	62	58	54	60	56	53	58	55	52	50																			
4	68	59	53	48	66	58	52	47	56	51	47	54	50	46	53	49	46	44																			
5	63	53	47	42	61	52	46	42	51	45	41	49	45	41	48	44	40	39																			
6	58	48	42	37	57	48	41	37	46	41	37	45	40	36	44	39	36	35																			
7	54	44	38	33	53	44	37	33	42	37	33	41	36	33	40	36	32	31																			
8	51	41	34	30	50	40	34	30	39	34	30	38	33	30	37	33	29	28																			
9	48	38	31	27	47	37	31	27	36	31	27	35	31	27	35	30	27	25																			
10	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20471	20471	20471
5°	20559	20630	20561
10°	20635	20217	19396
15°	20631	18999	17129
20°	20534	17198	14564
25°	20348	15118	12720
30°	20083	13342	11791
35°	19723	12108	11726
40°	19260	11371	11199
45°	18652	11285	10479
50°	17889	10647	9618
55°	16898	9788	8665
60°	15651	8729	8510
65°	14009	7555	8666
70°	11826	7184	8381
75°	8941	6643	6496
80°	5343	4455	3155
85°	1719	898	667



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	866.1	5.0	3.9	0°	9156	9156	9156	9156	9156	
10°-20°	2290.8	13.2	10.4	5°	9160	9195	9192	9172	9161	872
20°-30°	2981.6	17.2	13.6	15°	8913	8823	8208	7609	7400	2514
30°-40°	3195.7	18.4	14.5	25°	8248	7679	6128	5350	5156	3799
40°-50°	3019.5	17.4	13.7	35°	7226	5973	4436	4269	4296	4516
50°-60°	2421.3	13.9	11.0	45°	5899	4117	3569	3420	3314	4544
60°-70°	1695.3	9.8	7.7	55°	4335	2686	2511	2306	2223	3871
70°-80°	815.0	4.7	3.7	65°	2648	1689	1428	1571	1638	2619
80°-90°	97.3	0.6	0.4	75°	1035	622	769	755	752	1119
90°-100°	0.0	0.0	0.0	85°	67	79	35	26	26	133
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°	6138.5	35.3	27.9							
0°-40°	9334.2	53.7	42.4							
0°-60°	14775.1	85.0	67.2							
0°-90°	17382.7	100.0	79.0							
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°	17382.7	100.0	79.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9156	9156	9156	9156	9156
2.5°	9157	9185	9196	9204	9206
5°	9160	9195	9192	9172	9161
7.5°	9136	9171	9103	8993	8933
10°	9089	9102	8905	8658	8543
12.5°	9016	8988	8600	8184	8002
15°	8913	8823	8208	7609	7400
17.5°	8783	8604	7733	7004	6718
20°	8630	8340	7228	6383	6121
22.5°	8451	8026	6675	5824	5571
25°	8248	7679	6128	5350	5156
27.5°	8024	7290	5631	4969	4831
30°	7779	6874	5168	4670	4567
32.5°	7513	6430	4767	4411	4404
35°	7226	5973	4436	4269	4296
37.5°	6922	5488	4149	4138	4100
40°	6599	5014	3896	3928	3837
42.5°	6254	4551	3737	3677	3598
45°	5899	4117	3569	3420	3314
47.5°	5525	3701	3332	3125	3027
50°	5143	3317	3061	2837	2765
52.5°	4743	3000	2803	2575	2506
55°	4335	2686	2511	2306	2223
57.5°	3920	2406	2220	2031	2040
60°	3500	2198	1952	1851	1903
62.5°	3074	1957	1667	1709	1770
65°	2648	1689	1428	1571	1638
67.5°	2221	1422	1253	1432	1481
70°	1809	1142	1099	1261	1282
72.5°	1407	865	949	1041	1013
75°	1035	622	769	755	752
77.5°	697	441	548	538	493
80°	415	317	346	271	245
82.5°	201	190	144	90	71
85°	67	79	35	26	26
87.5°	13	15	13	14	13
90°	0	0	0	0	0

(END OF REPORT)