

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: ITL63417

Luminaire Tested: **HBI-532-W-UNV-EB82-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL63417
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBI-532-W-UNV-EB82-U
Description: HBI SERIES, FULL BODY STEEL HOUSING, WITH FIVE T8 LAMPS
WIDE DISTRIBUTION WHITE ALUM REFLECTOR NO UPLIGHT
Light Source: FIVE T8 LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

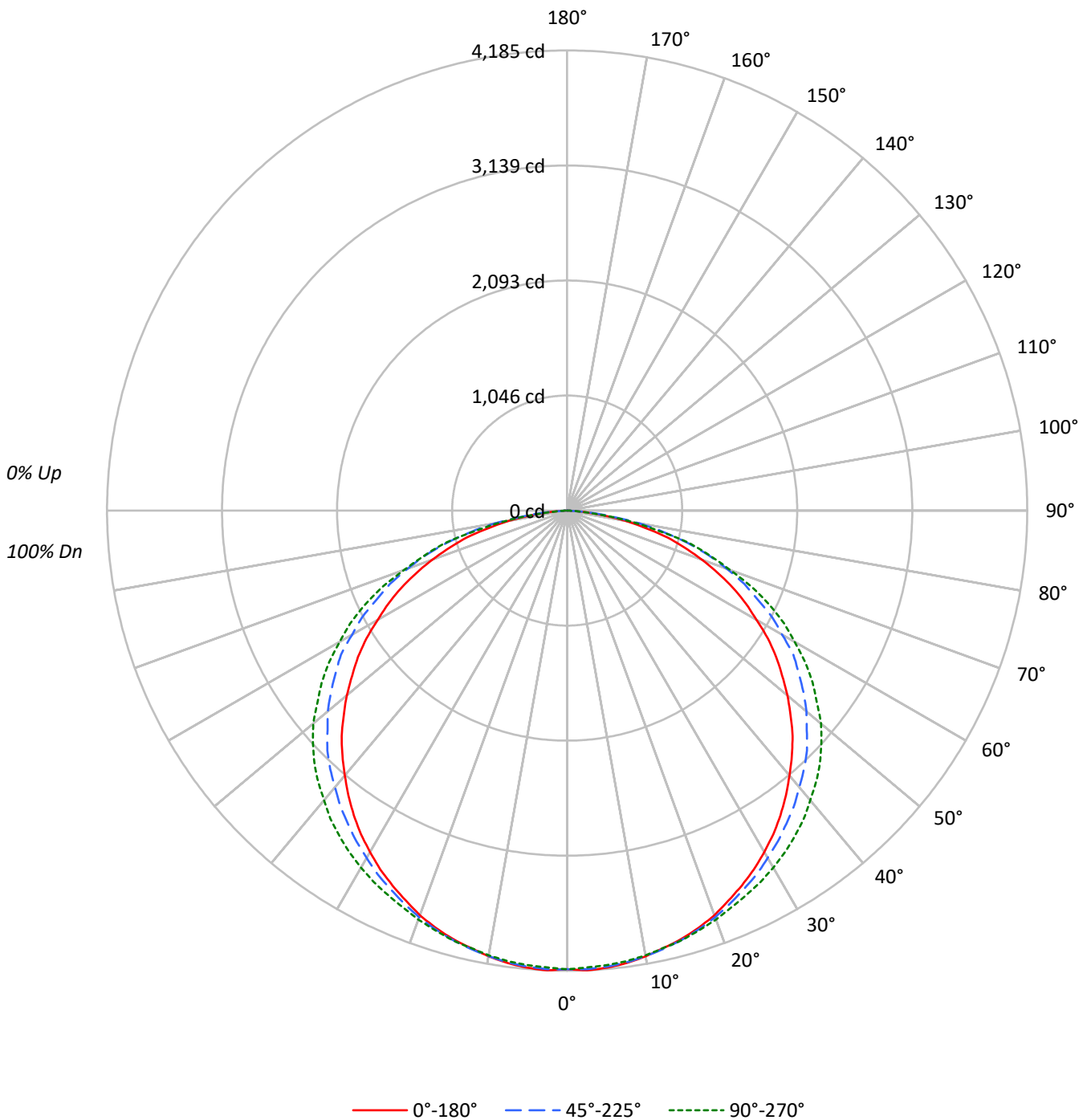
Lumens per Lamp: 3100 (5 lamps)
Luminaire Lumens: 13372.4 lumens
Efficiency: 86.3%
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.45
Luminous Opening: Rectangular (W 1.3' x L: 3.99' x H: 0')
CIE Type: Direct

Input Watts (W): 143.3
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	103	103	103	103	100	100	100	100	96	96	96	92	92	92	88	88	88	86
1	93	89	85	82	91	87	83	80	83	80	78	80	78	75	77	75	73	71
2	84	77	71	66	82	75	70	65	72	67	63	69	65	62	67	63	60	58
3	77	67	60	54	74	66	59	53	63	57	52	61	56	51	58	54	51	49
4	70	59	51	45	68	58	51	45	56	49	44	54	48	44	52	47	43	41
5	64	53	44	39	62	52	44	38	50	43	38	48	42	37	46	41	37	35
6	59	47	39	33	57	46	39	33	45	38	33	43	37	33	42	36	32	30
7	55	43	35	29	53	42	34	29	41	34	29	39	33	29	38	33	29	27
8	51	39	31	26	49	38	31	26	37	30	26	36	30	26	35	29	25	24
9	47	36	28	23	46	35	28	23	34	28	23	33	27	23	32	27	23	21
10	44	33	26	21	43	32	26	21	31	25	21	31	25	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8645	8645	8645
5°	8680	8661	8630
10°	8660	8656	8641
15°	8647	8669	8673
20°	8635	8679	8728
25°	8599	8688	8820
30°	8580	8726	8972
35°	8555	8793	9137
40°	8507	8886	9302
45°	8498	9040	9527
50°	8430	9158	9716
55°	8388	9277	9844
60°	8243	9357	9896
65°	8163	9355	9958
70°	7900	9348	9536
75°	7582	9047	9263
80°	6432	7887	7327
85°	3471	4470	3114



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	395.8	3.0	2.6	0°	4172	4172	4172	4172	4172	
10°-20°	1140.9	8.5	7.4	5°	4173	4174	4164	4150	4149	397
20°-30°	1757.5	13.1	11.3	15°	4031	4040	4041	4041	4043	1138
30°-40°	2185.9	16.3	14.1	25°	3761	3777	3800	3840	3858	1735
40°-50°	2371.6	17.7	15.3	35°	3382	3410	3476	3583	3612	2115
50°-60°	2270.8	17.0	14.7	45°	2900	2937	3085	3214	3251	2233
60°-70°	1858.7	13.9	12.0	55°	2322	2370	2568	2706	2725	2070
70°-80°	1136.2	8.5	7.3	65°	1665	1744	1908	2040	2031	1640
80°-90°	255.0	1.9	1.6	75°	947	1017	1130	1164	1157	978
90°-100°	0.0	0.0	0.0	85°	146	224	188	161	131	210
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°	3294.2	24.6	21.3							
0°-40°	5480.1	41.0	35.4							
0°-60°	10122.6	75.7	65.3							
0°-90°	13372.4	100.0	86.3							
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°	13372.4	100.0	86.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4172	4172	4172	4172	4172
2.5°	4185	4187	4174	4159	4158
5°	4173	4174	4164	4150	4149
7.5°	4151	4152	4144	4133	4133
10°	4116	4124	4114	4110	4107
12.5°	4072	4083	4080	4074	4072
15°	4031	4040	4041	4041	4043
17.5°	3978	3991	3991	3998	4000
20°	3916	3927	3936	3948	3958
22.5°	3838	3859	3869	3899	3905
25°	3761	3777	3800	3840	3858
27.5°	3679	3701	3731	3783	3808
30°	3586	3610	3647	3719	3750
32.5°	3490	3515	3567	3657	3686
35°	3382	3410	3476	3583	3612
37.5°	3267	3298	3389	3502	3535
40°	3145	3178	3285	3415	3439
42.5°	3025	3054	3189	3311	3351
45°	2900	2937	3085	3214	3251
47.5°	2757	2804	2956	3106	3136
50°	2615	2663	2841	2978	3014
52.5°	2464	2527	2707	2854	2861
55°	2322	2370	2568	2706	2725
57.5°	2164	2231	2440	2546	2566
60°	1989	2063	2258	2372	2388
62.5°	1832	1911	2104	2215	2224
65°	1665	1744	1908	2040	2031
67.5°	1483	1562	1743	1844	1821
70°	1304	1393	1543	1613	1574
72.5°	1115	1207	1346	1374	1361
75°	947	1017	1130	1164	1157
77.5°	725	843	895	919	854
80°	539	650	661	644	614
82.5°	326	439	396	418	353
85°	146	224	188	161	131
87.5°	31	57	40	47	46
90°	0	0	0	0	0

(END OF REPORT)