

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: P30367

Luminaire Tested: **HBI-532-N-A-UNV-EB82-SDF-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30367
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBI-532-N-A-UNV-EB82-SDF-U
Description: HBI SERIES, FULL BODY STEEL HOUSING, WITH FIVE T8 LAMPS,
NARROW DISTRIBUTION SPECULAR REFLECTOR AND PRISMATIC ACRYLIC LENS
IN SLOTTED DOORFRAME, NO UPLIGHT
Light Source: FIVE T8 LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: UNIVERSAL ELECTRONIC BALLAST
B432IUNVHPA, B232IUNVHPA

Summary

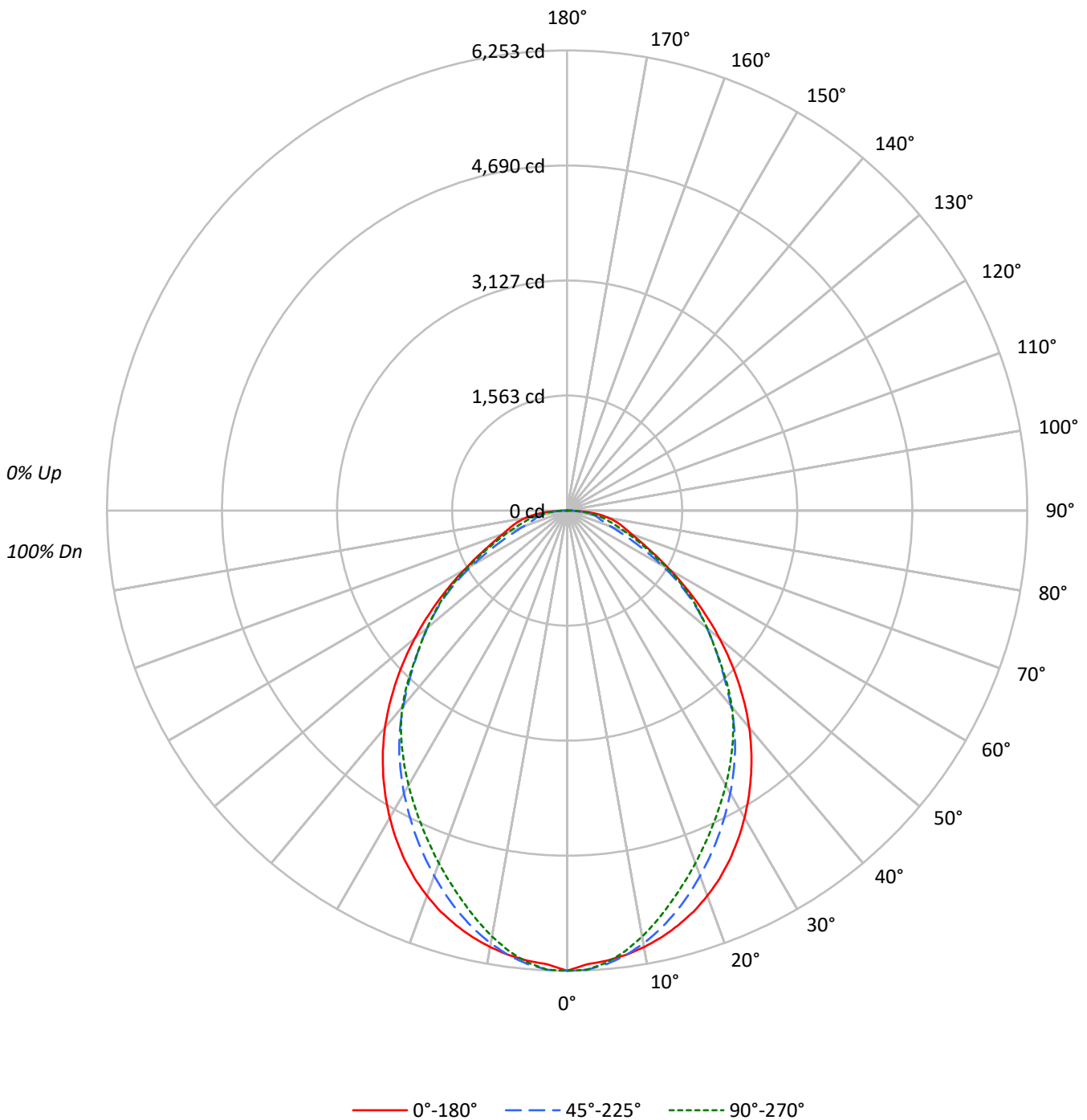
Lumens per Lamp: 3100 (5 lamps)
Luminaire Lumens: 13103.7 lumens
Efficiency: 84.5%
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.05 / 1.18
Luminous Opening: Rectangular (W 3.71' x L: 1.21' x H: 0')
CIE Type: Direct

Input Watts (W): 138.8
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	101	101	101	101	98	98	98	98	94	94	94	90	90	90	86	86	86	85				85
1	93	89	86	83	90	87	84	81	84	81	79	80	78	76	77	76	74	72				72
2	85	79	73	69	83	77	72	68	74	70	67	71	68	65	69	66	64	62				62
3	78	70	64	59	76	69	63	58	66	61	57	64	60	56	62	58	55	53				53
4	72	63	56	51	70	62	55	50	60	54	50	58	53	49	56	52	48	46				46
5	67	57	49	44	65	56	49	44	54	48	43	52	47	43	51	46	43	41				41
6	62	51	44	39	60	51	44	39	49	43	39	48	42	38	46	42	38	36				36
7	58	47	40	35	56	46	40	35	45	39	35	44	38	34	43	38	34	32				32
8	54	43	36	31	53	42	36	31	41	35	31	40	35	31	39	34	31	29				29
9	50	40	33	29	49	39	33	28	38	32	28	37	32	28	36	32	28	27				27
10	47	37	30	26	46	36	30	26	35	30	26	35	29	26	34	29	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15021	15021	15021
5°	14803	14917	14864
10°	14689	14570	14335
15°	14506	14078	13663
20°	14241	13505	13030
25°	13862	12908	12457
30°	13372	12299	11955
35°	12786	11668	11478
40°	12076	10856	10931
45°	11163	9984	10032
50°	10101	9268	9276
55°	8950	8443	8590
60°	7764	7130	7586
65°	6855	5593	6542
70°	6518	4432	5921
75°	7017	4325	5680
80°	7913	5271	6073
85°	8875	6036	6312



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	582.7	4.4	3.8	0°	6253	6253	6253	6253	6253	
10°-20°	1594.1	12.2	10.3	5°	6139	6185	6186	6173	6164	583
20°-30°	2263.9	17.3	14.6	15°	5833	5803	5661	5540	5494	1643
30°-40°	2529.4	19.3	16.3	25°	5230	5106	4870	4740	4700	2405
40°-50°	2337.9	17.8	15.1	35°	4360	4186	3979	3915	3914	2721
50°-60°	1814.5	13.8	11.7	45°	3286	3098	2939	2948	2953	2530
60°-70°	1098.5	8.4	7.1	55°	2137	2043	2016	1988	2051	1915
70°-80°	624.5	4.8	4.0	65°	1206	1146	984	1034	1151	1218
80°-90°	257.1	2.0	1.7	75°	756	638	466	545	612	795
90°-100°	1.1	0.0	0.0	85°	322	283	219	214	229	313
100°-110°	0.0	0.0	0.0	90°	10	9	8	7	6	25
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°	4440.7	33.9	28.6	165°	0	0	0	0	0	0
0°-40°	6970.2	53.2	45.0	175°	0	0	0	0	0	0
0°-60°	11122.6	84.9	71.8	180°	0	0	0	0	0	0
0°-90°	13102.6	100.0	84.5							
90°-120°	1.1	0.0	0.0							
90°-150°	1.1	0.0	0.0							
90°-180°	1.0	0.0	0.0							
0°-180°	13103.7	100.0	84.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6253	6253	6253	6253	6253
2.5°	6172	6224	6244	6246	6244
5°	6139	6185	6186	6173	6164
7.5°	6091	6122	6094	6056	6039
10°	6022	6035	5973	5904	5877
12.5°	5937	5932	5829	5730	5692
15°	5833	5803	5661	5540	5494
17.5°	5713	5657	5479	5344	5295
20°	5571	5489	5283	5145	5097
22.5°	5412	5303	5079	4942	4898
25°	5230	5106	4870	4740	4700
27.5°	5033	4893	4653	4537	4503
30°	4821	4667	4434	4337	4310
32.5°	4596	4431	4209	4129	4114
35°	4360	4186	3979	3915	3914
37.5°	4112	3930	3731	3686	3710
40°	3851	3659	3462	3442	3486
42.5°	3573	3378	3189	3189	3226
45°	3286	3098	2939	2948	2953
47.5°	2995	2823	2705	2717	2704
50°	2703	2557	2480	2481	2482
52.5°	2416	2293	2254	2238	2270
55°	2137	2043	2016	1988	2051
57.5°	1867	1797	1756	1732	1818
60°	1616	1561	1484	1479	1579
62.5°	1395	1338	1220	1240	1350
65°	1206	1146	984	1034	1151
67.5°	1051	985	784	867	987
70°	928	855	631	738	843
72.5°	833	740	528	635	718
75°	756	638	466	545	612
77.5°	671	548	425	461	525
80°	572	466	381	379	439
82.5°	461	383	312	298	338
85°	322	283	219	214	229
87.5°	164	151	113	110	113
90°	10	9	8	7	6
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)