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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Encore Lighting Mfg LLC dba Nano Meter

Diane Paquet
57-10 49th Place
Maspeth, NY 11378
United States

Catalog Number
1x12-27K-HO
Order Number
10980032
Test Number
1166414

Test Date

2015-10-13

Prepared By

Derek Smarr, Technician

Approved By

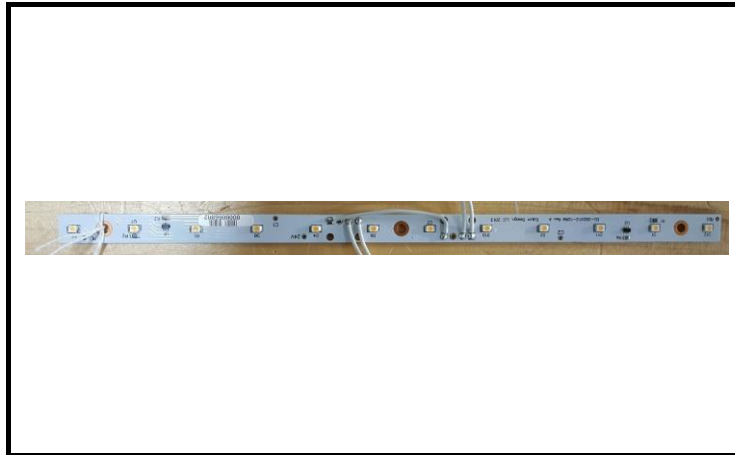
Jeffrey Lockner, Project Engineer

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Luminaire Description: LED board
Lamp: 12 white LEDs
Mounting: Surface
Ballast/Driver: One Mean Well HLG-80H-24A

Luminaire



Luminaire Characteristics

Luminous Length: 11.50 in.
Luminous Width: 0.5000 in.

Summary of Results

Total Luminaire Output: 114.4 Lumens
Luminaire Efficacy: 48.7 lm/w
Maximum Candela: 40 Candela

Electrical Data

Test Temperature: 24.7 °C
Voltage: 120.0 VAC
Current: 0.04840 A
Power: 2.347 W
Power Factor: 0.404
Frequency: 60 Hz
Current THD: 177 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.04840 A	2.347 W	0.404	60 Hz	177 %

Summary of Results

Spacing Criteria

0-180: 1.23
90-270: 1.23

Total Lumen Output:

114.4 Lumens

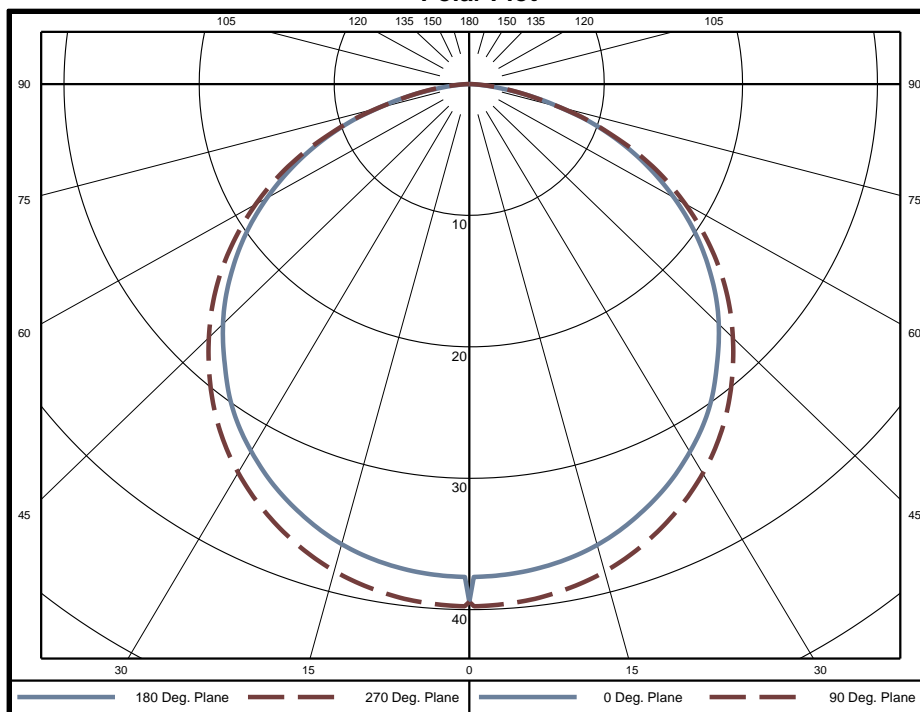
Luminaire Efficacy:

48.7 lm/w

Maximum Candela:

40 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.94	0.8%	60-65	7.91	6.9%	120-125	0	0.0%
5-10	2.79	2.4%	65-70	6.43	5.6%	125-130	0	0.0%
10-15	4.56	4.0%	70-75	4.76	4.2%	130-135	0	0.0%
15-20	6.19	5.4%	75-80	2.94	2.6%	135-140	0	0.0%
20-25	7.61	6.7%	80-85	1.37	1.2%	140-145	0	0.0%
25-30	8.79	7.7%	85-90	0.30	0.3%	145-150	0	0.0%
30-35	9.70	8.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	10.26	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	10.47	9.2%	100-105	0	0.0%	160-165	0	0.0%
45-50	10.37	9.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	9.91	8.7%	110-115	0	0.0%	170-175	0	0.0%
55-60	9.09	7.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	51	44.4%
0-60	91	79.3%
0-90	114	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40
5	37.38	39.41	39.66	39.47	39.59	39.47	39.66	39.41	37.38	39.41	39.66	39.47	39.59	39.47	39.66	39.41
10	36.98	38.98	39.23	39.03	39.15	39.03	39.23	38.98	36.98	38.98	39.23	39.03	39.15	39.03	39.23	38.98
15	36.30	38.24	38.49	38.28	38.40	38.28	38.49	38.24	36.30	38.24	38.49	38.28	38.40	38.28	38.49	38.24
20	35.25	37.12	37.37	37.18	37.29	37.18	37.37	37.12	35.25	37.12	37.37	37.18	37.29	37.18	37.37	37.12
25	33.94	35.70	35.95	35.76	35.88	35.76	35.95	35.70	33.94	35.70	35.95	35.76	35.88	35.76	35.95	35.70
30	32.35	34.04	34.25	34.07	34.20	34.07	34.25	34.04	32.35	34.04	34.25	34.07	34.20	34.07	34.25	34.04
35	30.51	32.04	32.21	32.06	32.21	32.06	32.21	32.04	30.51	32.04	32.21	32.06	32.21	32.06	32.21	32.04
40	28.23	29.67	29.81	29.68	29.85	29.68	29.81	29.67	28.23	29.67	29.81	29.68	29.85	29.68	29.81	29.67
45	25.90	27.14	27.25	27.10	27.29	27.10	27.25	27.14	25.90	27.14	27.25	27.10	27.29	27.10	27.25	27.14
50	23.30	24.39	24.48	24.37	24.56	24.37	24.48	24.39	23.30	24.39	24.48	24.37	24.56	24.37	24.48	24.39
55	20.48	21.35	21.44	21.35	21.53	21.35	21.44	21.35	20.48	21.35	21.44	21.35	21.53	21.35	21.44	21.35
60	17.40	18.07	18.11	18.07	18.27	18.07	18.11	18.07	17.40	18.07	18.11	18.07	18.27	18.07	18.11	18.07
65	14.16	14.59	14.49	14.45	14.79	14.45	14.49	14.59	14.16	14.59	14.49	14.45	14.79	14.45	14.49	14.59
70	10.75	10.94	10.95	10.91	10.87	10.91	10.95	10.94	10.75	10.94	10.95	10.91	10.87	10.91	10.95	10.94
75	6.98	7.41	7.44	7.24	6.96	7.24	7.44	7.41	6.98	7.41	7.44	7.24	6.96	7.24	7.44	7.41
80	3.63	4.11	3.96	3.81	3.70	3.81	3.96	4.11	3.63	4.11	3.96	3.81	3.70	3.81	3.96	4.11
85	1.06	1.32	1.35	1.34	1.32	1.34	1.35	1.32	1.06	1.32	1.35	1.34	1.32	1.34	1.35	1.32
90	0.04	0.11	0.12	0.14	0.15	0.14	0.12	0.11	0.04	0.11	0.12	0.14	0.15	0.14	0.12	0.11
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	10620	10620	10620
45	9872	10390	10400
55	9623	10080	10120
65	9029	9243	9436
75	7270	7749	7251
85	3271	4188	4095



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	136	136	136	136	133	133	133	133	127	127	127	122	122	122	117	117	117	114
1	125	119	114	110	121	117	112	108	112	108	105	107	104	101	103	101	98	96
2	113	104	96	89	110	102	94	88	97	91	86	94	89	84	90	86	82	80
3	103	91	82	74	100	89	80	73	86	78	72	83	76	71	80	74	70	67
4	94	80	70	63	92	79	70	62	76	68	61	73	66	60	71	65	60	57
5	87	72	61	54	84	71	61	54	68	60	53	66	58	52	64	57	52	49
6	80	65	54	47	78	63	54	47	61	53	46	59	52	46	58	51	45	43
7	74	58	48	41	72	58	48	41	56	47	41	54	46	41	53	46	40	38
8	69	53	44	37	67	53	43	37	51	43	36	50	42	36	48	41	36	34
9	64	49	39	33	63	48	39	33	47	39	33	46	38	33	44	38	32	30
10	60	45	36	30	59	45	36	30	43	35	30	42	35	30	41	34	29	27

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	2.46	5.11
6.00	1.09	7.67
8.00	0.616	10.2
10.0	0.394	12.8
12.0	0.274	15.3
14.0	0.201	17.9
16.0	0.154	20.4

Cone of Light Plot

