



# LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING  
MEMBER  
of the  
IESNA

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LTL NUMBER: 17067

DATE: 11-12-2009

PREPARED FOR: SPECIALTY LIGHTING INDUSTRIES

CATALOG NUMBER: 805-LED-FH

LUMINAIRE: FORMED WHITE ENAMEL ALUMINUM HOUSING, FROSTED PLASTIC ENCLOSURE.

LAMP: 12 WHITE LEDS WITH CLEAR LINEAR PRISMATIC PLASTIC OPTICS BELOW EACH

LED POWER SUPPLY: ONE SPECIALTY LIGHTING DLR12608-RS

MOUNTING: RECESSED

ELECTRICAL VALUES: 120.0VAC, 0.2861A, 27.46W, PF=0.800

NOTE: THIS TEST WAS PERFORMED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. \*

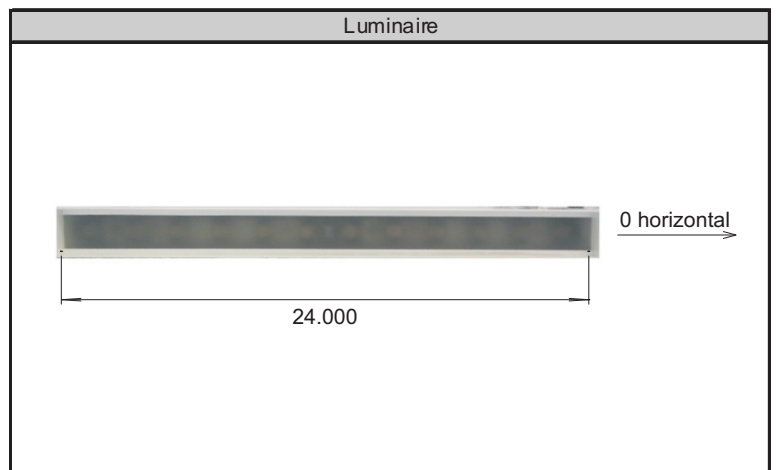
### Candela Distribution

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	Flux
0	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	
5	1111	1087	1047	1018	1011	1018	1047	1087	1111	1087	1047	1018	1011	1018	1047	1087	95.1
15	922	823	659	548	511	548	659	823	922	823	659	548	511	548	659	823	189.1
25	562	451	309	228	203	228	309	451	562	451	309	228	203	228	309	451	157.8
35	256	198	125	82	71	82	125	198	256	198	125	82	71	82	125	198	90.7
45	105	81	49	32	28	32	49	81	105	81	49	32	28	32	49	81	45.6
55	47	39	23	16	15	16	23	39	47	39	23	16	15	16	23	39	24.8
65	25	20	11	9	9	9	11	20	25	20	11	9	9	9	11	20	14.2
75	13	8	4	5	5	5	4	8	13	8	4	5	5	5	4	8	7.0
85	4	2	1	1	1	1	1	2	4	2	1	1	1	1	1	2	2.0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

### Zonal Lumen Summary

Zone	Lumens	% of Lamp	% of Luminaire
0-30	441.9	N/A	70.6%
0-40	532.7	N/A	85.1%
0-60	603.0	N/A	96.3%
0-90	626.3	N/A	100.0%
90-180	0.0	N/A	0.0%
0-180	626.3	N/A	100.0%

Total lumen Output: 626.3 Lumens  
 Luminaire efficacy: 22.8 Lumens per Watt  
 CIE Type: Direct  
 Spacing Criterion: 0 deg: 0.79    90 deg: 0.46  
                           180 deg: 0.79    270 deg: 0.46



Approved By: MG

\*DATA WAS ACQUIRED USING THE CALIBRATED PHOTODETECTOR METHOD OF ABSOLUTE PHOTOMETRY. A UDT MODEL #211 PHOTODETECTOR AND UDT MODEL #S370 OPTOMETER COMBINATION WERE USED AS A STANDARD. A SPECTRAL MISMATCH CORRECTION FACTOR WAS EMPLOYED BASED ON THE SPECTRAL RESPONSIVITY OF THE PHOTODETECTOR AND THE SPECTRAL POWER DISTRIBUTION OF THE TEST SUBJECT.

**TESTING WAS PERFORMED IN ACCORDANCE WITH IES LM-79-08.**

TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IES LM-41-98 AND LM-46-04.



Candela Tabulation (5 degree Vertical Increments)

	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	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122	1122
5	1111	1087	1047	1018	1011	1018	1047	1087	1111	1087	1047	1018	1011	1018	1047	1087
10	1042	980	869	787	762	787	869	980	1042	980	869	787	762	787	869	980
15	922	823	659	548	511	548	659	823	922	823	659	548	511	548	659	823
20	753	636	464	363	333	363	464	636	753	636	464	363	333	363	464	636
25	562	451	309	228	203	228	309	451	562	451	309	228	203	228	309	451
30	390	304	200	138	118	138	200	304	390	304	200	138	118	138	200	304
35	256	198	125	82	71	82	125	198	256	198	125	82	71	82	125	198
40	163	126	77	50	43	50	77	126	163	126	77	50	43	50	77	126
45	105	81	49	32	28	32	49	81	105	81	49	32	28	32	49	81
50	69	56	33	22	21	22	33	56	69	56	33	22	21	22	33	56
55	47	39	23	16	15	16	23	39	47	39	23	16	15	16	23	39
60	34	28	15	13	12	13	15	28	34	28	15	13	12	13	15	28
65	25	20	11	9	9	9	11	20	25	20	11	9	9	9	11	20
70	19	13	8	6	6	6	8	13	19	13	8	6	6	6	8	13
75	13	8	4	5	5	5	4	8	13	8	4	5	5	5	4	8
80	9	4	3	3	3	3	3	4	9	4	3	3	3	3	3	4
85	4	2	1	1	1	1	1	2	4	2	1	1	1	1	1	2
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Zonal Lumen Tabulation (5 degree zones)

Zone	Lumens	Zone	Lumens	Zone	Lumens	Zone	Lumens
0-5	26.0	45-50	19.0	90-95	0.0	135-140	0.0
5-10	69.0	50-55	14.2	95-100	0.0	140-145	0.0
10-15	92.5	55-60	10.7	100-105	0.0	145-150	0.0
15-20	96.6	60-65	8.2	105-110	0.0	150-155	0.0
20-25	87.3	65-70	6.0	110-115	0.0	155-160	0.0
25-30	70.5	70-75	4.1	115-120	0.0	160-165	0.0
30-35	52.8	75-80	2.9	120-125	0.0	165-170	0.0
35-40	37.9	80-85	1.6	125-130	0.0	170-175	0.0
40-45	26.6	85-90	0.4	130-135	0.0	175-180	0.0



Utilization of Lumens - Zonal Cavity Method												
Effective Floor Cavity Reflectance 20%												
Ceiling Cavity Reflectance	90				80				70			
Wall Reflectance	70	50	30	10	70	50	30	10	70	50	30	10
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **											
0	763.8	763.8	763.8	763.8	745.6	745.6	745.6	745.6	728.2	728.2	728.2	728.2
1	724.8	704.2	685.9	669.4	708.4	689.9	673.5	658.6	692.8	676.4	661.5	648.1
2	686.5	650.9	621.8	597.5	671.6	639.5	613	590.7	657.6	628.7	604.5	584
3	650.4	604.4	569.3	541.7	637	595.3	562.9	537.2	624.3	586.5	556.7	532.8
4	617	563.8	525.5	496.7	604.8	556.3	520.8	493.6	593.4	549.1	516.1	490.6
5	586	528.1	488.4	459.4	575	521.9	484.8	457.3	564.8	515.9	481.2	455.3
6	557.3	496.4	456.4	428	547.5	491.3	453.6	426.5	538.2	486.3	450.8	425
7	530.9	468.3	428.5	401	522	463.9	426.3	399.9	513.6	459.7	424.1	398.8
8	506.5	443	403.9	377.4	498.5	439.3	402.1	376.6	490.9	435.7	400.4	375.8
9	484	420.3	382.1	356.6	476.7	417.1	380.7	356	469.9	414.1	379.2	355.4
10	463.2	399.8	362.6	338.1	456.6	397	361.4	337.6	450.4	394.4	360.2	337.2

Ceiling Cavity Reflectance	50				30			10			0
Wall Reflectance	70	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	695.9	695.9	695.9	695.9	666.3	666.3	666.3	639.1	639.1	639.1	626.3
1	663.9	650.9	639	628.1	627.5	618.1	609.4	606	598.6	591.7	580.4
2	631.6	608.3	588.4	571.2	589.5	573.3	558.9	572.2	559	547.2	536.7
3	601	569.9	544.9	524.2	554.6	533.6	516	540.4	522.9	508	497.9
4	572.4	535.5	507.2	484.8	522.9	498.7	479.1	511.2	490.6	473.6	463.9
5	545.8	504.7	474.4	451.2	494.2	467.8	447.2	484.4	461.6	443.2	433.9
6	521.1	476.9	445.5	422.1	468	440.3	419.2	459.8	435.4	416.4	407.3
7	498.2	451.7	419.8	396.6	444.2	415.7	394.5	437.2	411.8	392.4	383.6
8	476.9	428.9	397	374.2	422.5	393.7	372.6	416.5	390.4	371	362.5
9	457.2	408.2	376.4	354.2	402.6	373.7	352.9	397.4	371.1	351.7	343.5
10	438.9	389.3	357.9	336.2	384.5	355.6	335.3	379.9	353.5	334.3	326.4

Average Luminance Table (cd/m<sup>2</sup>)

	0	45	90
0	36247	36247	36247
45	4817	2234	1278
55	2662	1268	859
65	1921	852	652
75	1661	560	597
85	1497	527	499

THIS TEST WAS CONDUCTED USING PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IES PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.

