



UL LLC  
1075 W Lambert Rd Suite B  
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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014

**Prepared For**  
**Lux Dynamics**

Andy Munter  
1350 Capital Blvd  
Reno, NV 89502

**Catalog Number**  
**360P-2-D-835-xxx-xx-WA**

Order Number  
13551818  
Test Number  
13551818.02

Test Date

2020-11-04

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Gray cylindrical metal housing with diffuse plastic lens  
**Lamp:** White 306 LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One (1) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB

### Luminaire



### Luminaire Characteristics

Luminous Length: 23.00 in.  
Luminous Width: 4.500 in.  
Luminous Height: 0.75 in.

### Summary of Results

Total Luminaire Output: 6872 Lumens  
Luminaire Efficacy: 129.5 lm/w  
Maximum Candela: 2142 Candela

### Test Conditions

Test Temperature: 24.3 °C  
Voltage: 277.0 VAC  
Current: 0.2011 A  
Power: 53.08 W  
Power Factor: 0.953  
Frequency: 60 Hz  
Current THD: 12.8 %

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



## Distribution - Goniophotometer

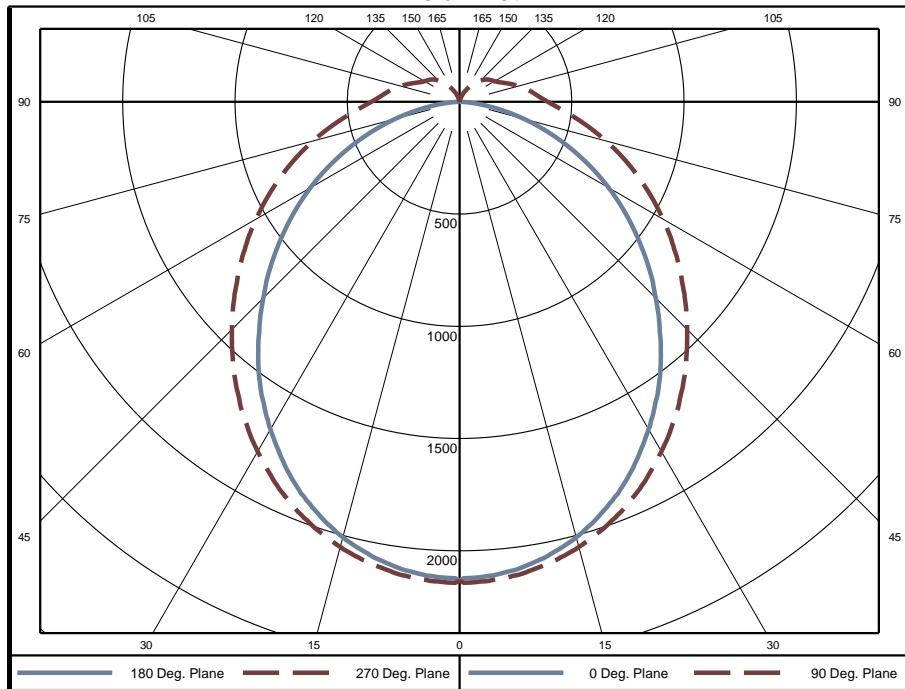
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	277.0 VAC	0.2011 A	53.08 W	0.953	60 Hz	12.8 %

### Summary of Results

<b>Spacing Criteria</b>	<b>Total Lumen Output:</b>	6872 Lumens
0-180: 1.18	<b>Luminaire Efficacy:</b>	129.5 lm/w
90-270: 1.25	<b>Maximum Candela:</b>	2142 Candela
<b>Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)</b>		
<b>Crosswise:</b> 24.9	<b>Endwise:</b> 25.5	

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	50.9	0.7%	60-65	406.4	5.9%	120-125	44.7	0.7%
5-10	150.6	2.2%	65-70	352.7	5.1%	125-130	38.0	0.6%
10-15	244.3	3.6%	70-75	295.3	4.3%	130-135	30.6	0.4%
15-20	328.4	4.8%	75-80	236.6	3.4%	135-140	23.4	0.3%
20-25	399.6	5.8%	80-85	181.6	2.6%	140-145	16.8	0.2%
25-30	455.7	6.6%	85-90	137.1	2.0%	145-150	11.1	0.2%
30-35	495.1	7.2%	90-95	111.2	1.6%	150-155	6.5	0.1%
35-40	517.2	7.5%	95-100	95.8	1.4%	155-160	3.3	0.0%
40-45	522.3	7.6%	100-105	82.3	1.2%	160-165	1.1	0.0%
45-50	512.0	7.5%	105-110	70.0	1.0%	165-170	0.1	0.0%
50-55	488.1	7.1%	110-115	59.3	0.9%	170-175	0	0.0%
55-60	452.5	6.6%	115-120	51.2	0.7%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2642	38.4%
0-60	4617	67.2%
0-90	6226	90.6%
90-180	645	9.4%



**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	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133	2133
5	2110	2116	2121	2129	2132	2129	2121	2116	2110	2116	2121	2129	2132	2129	2121	2116
10	2071	2079	2087	2097	2101	2097	2087	2079	2071	2079	2087	2097	2101	2097	2087	2079
15	2008	2018	2030	2048	2052	2048	2030	2018	2008	2018	2030	2048	2052	2048	2030	2018
20	1921	1933	1953	1977	1984	1977	1953	1933	1921	1933	1953	1977	1984	1977	1953	1933
25	1813	1825	1857	1890	1901	1890	1857	1825	1813	1825	1857	1890	1901	1890	1857	1825
30	1684	1702	1746	1786	1798	1786	1746	1702	1684	1702	1746	1786	1798	1786	1746	1702
35	1547	1566	1622	1671	1686	1671	1622	1566	1547	1566	1622	1671	1686	1671	1622	1566
40	1394	1422	1485	1544	1565	1544	1485	1422	1394	1422	1485	1544	1565	1544	1485	1422
45	1236	1271	1341	1412	1434	1412	1341	1271	1236	1271	1341	1412	1434	1412	1341	1271
50	1082	1118	1196	1275	1302	1275	1196	1118	1082	1118	1196	1275	1302	1275	1196	1118
55	925	962	1050	1142	1175	1142	1050	962	925	962	1050	1142	1175	1142	1050	962
60	768	807	906	1011	1047	1011	906	807	768	807	906	1011	1047	1011	906	807
65	608	651	767	881	920	881	767	651	608	651	767	881	920	881	767	651
70	450	503	637	756	796	756	637	503	450	503	637	756	796	756	637	503
75	300	367	517	636	676	636	517	367	300	367	517	636	676	636	517	367
80	162	249	405	524	564	524	405	249	162	249	405	524	564	524	405	249
85	51	154	309	426	467	426	309	154	51	154	309	426	467	426	309	154
90	0	95	241	353	393	353	241	95	0	95	241	353	393	353	241	95
95	0	71	203	307	344	307	203	71	0	71	203	307	344	307	203	71
100	0	57	175	273	309	273	175	57	0	57	175	273	309	273	175	57
105	0	53	148	238	272	238	148	53	0	53	148	238	272	238	148	53
110	0	49	127	205	236	205	127	49	0	49	127	205	236	205	127	49
115	0	43	119	178	204	178	119	43	0	43	119	178	204	178	119	43
120	0	38	112	163	182	163	112	38	0	38	112	163	182	163	112	38
125	0	32	101	152	169	152	101	32	0	32	101	152	169	152	101	32
130	0	26	87	137	154	137	87	26	0	26	87	137	154	137	87	26
135	0	20	73	118	135	118	73	20	0	20	73	118	135	118	73	20
140	0	14	60	96	113	96	60	14	0	14	60	96	113	96	60	14
145	0	8	47	76	90	76	47	8	0	8	47	76	90	76	47	8
150	0	2	33	58	65	58	33	2	0	2	33	58	65	58	33	2
155	0	0	20	39	45	39	20	0	0	0	20	39	45	39	20	0
160	0	0	8	23	27	23	8	0	0	0	8	23	27	23	8	0
165	0	0	0	6	10	6	0	0	0	0	0	6	10	6	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

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

Horizontal Angle (Degrees)

	0	45	90
0	31940	31940	31940
45	25360	24890	26030
55	23080	22820	24780
65	20140	20870	24010
75	15450	19590	24120
85	6442	20340	27600

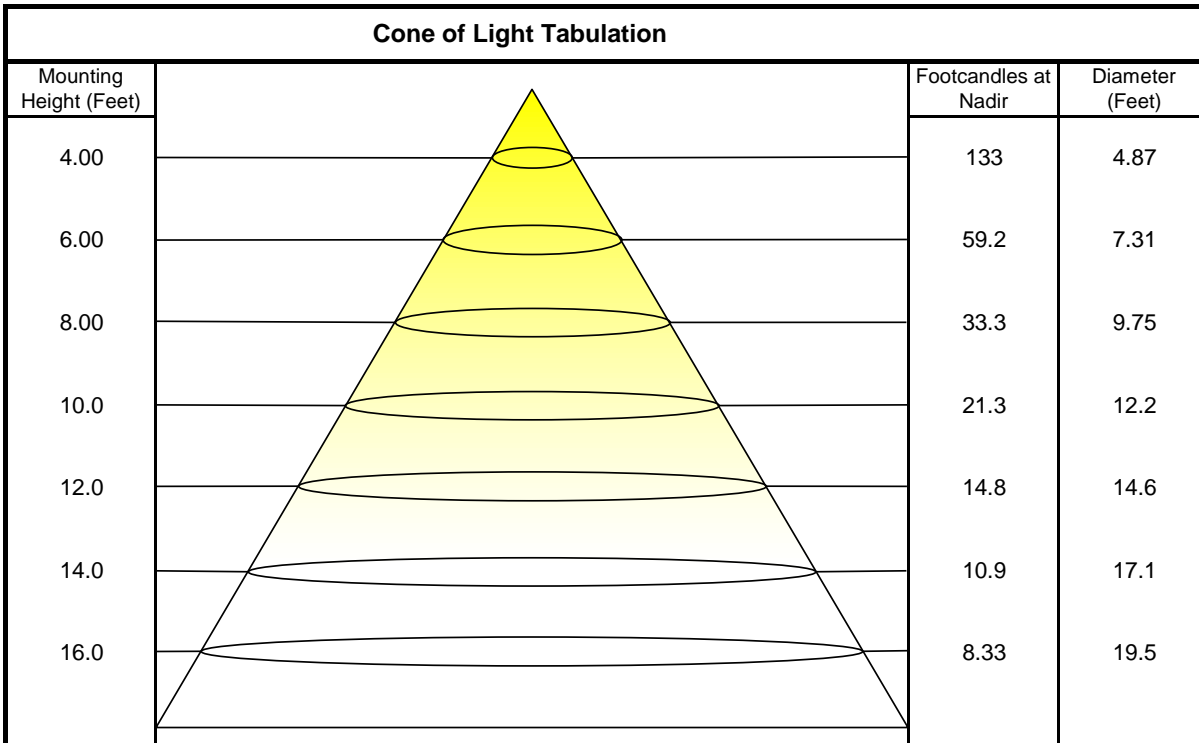


### Coefficients of Utilization - Zonal Cavity Method

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 percent of total lumen output delivered to the task surface **																	
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	105	100	95	91	102	97	92	89	91	87	84	85	82	80	80	78	76	73
2	95	87	79	73	92	84	77	72	79	73	69	74	70	66	70	66	63	60
3	87	76	67	61	83	74	66	59	69	63	57	65	60	55	61	57	53	50
4	79	67	58	51	76	65	57	50	61	54	49	58	52	47	55	50	45	43
5	73	60	51	44	70	58	50	43	55	48	42	52	46	41	49	44	39	37
6	67	54	45	38	65	52	44	38	50	42	37	47	41	36	45	39	35	32
7	62	49	40	34	60	48	39	33	45	38	32	43	36	32	41	35	31	29
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	32	28	26
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	27	23	32	27	23	21

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2133 Candela
Central Cone Intensity:	2129 Candela
Beam Flux:	4157.3 Lumens
Beam Angle (0-180):	101.0 Degrees
Beam Angle (90-270):	118.5 Degrees
Field Angle (0-180):	156.1 Degrees
Field Angle (90-270):	226.8 Degrees





# ISOFootcandle Plot

Mounting Height - 8 Feet

