



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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-UD-835-xxx-xx-WA

Order Number
13551818
Test Number
13551818.06

Test Date

2020-11-03

Prepared By

William Escobar, Technician

Approved By

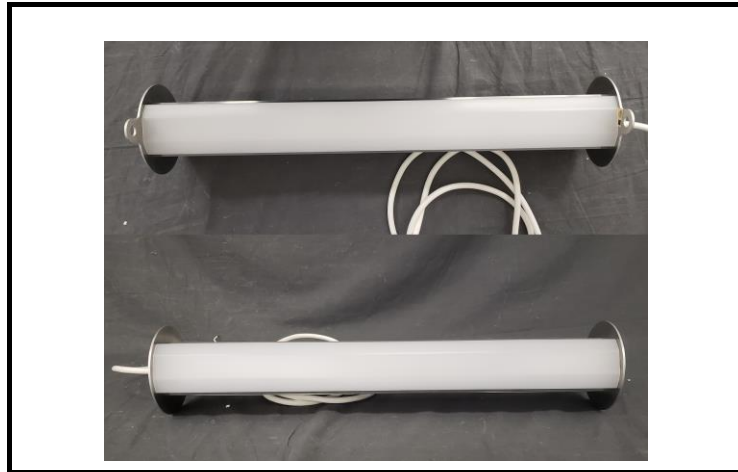
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Gray cylindrical metal housing with diffuse plastic lens
Lamp: White 612 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: 4.50 in.

Summary of Results

Total Luminaire Output: 7296 Lumens
Luminaire Efficacy: 143.1 lm/w
Maximum Candela: 1151 Candela

Test Conditions

Test Temperature: 24.4 °C
Voltage: 277.0 VAC
Current: 0.1937 A
Power: 51.00 W
Power Factor: 0.950
Frequency: 60 Hz
Current THD: 12.9 %

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



Distribution - Goniophotometer

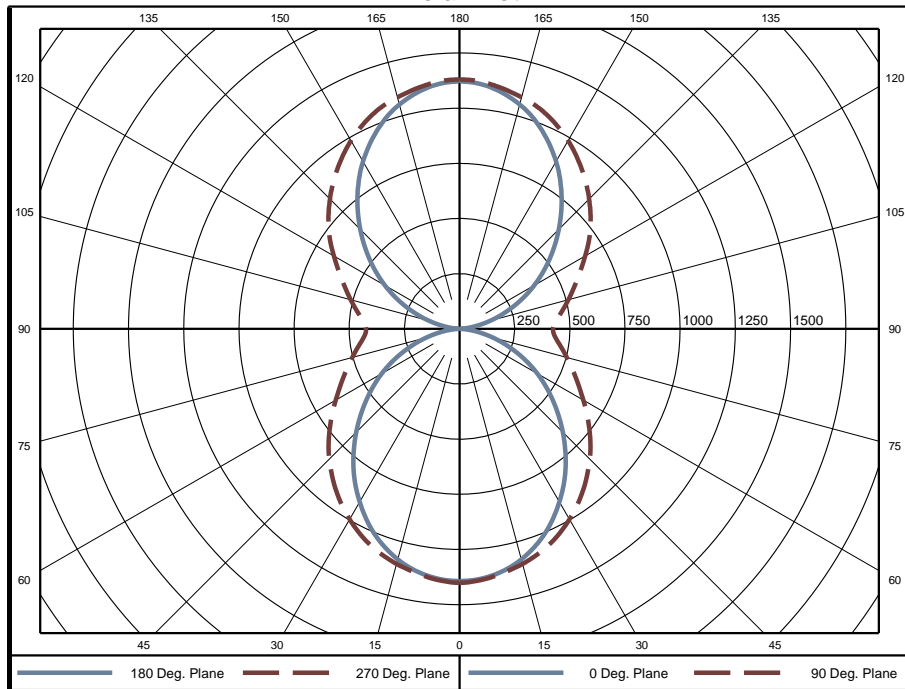
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	277.0 VAC	0.1937 A	51.00 W	0.950	60 Hz	12.9 %

Summary of Results

Spacing Criteria	Total Lumen Output:	7296 Lumens
0-180: 1.18	Luminaire Efficacy:	143.1 lm/w
90-270: 1.29	Maximum Candela:	1151 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 16.5	Endwise: 18.1	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	27.3	0.4%	60-65	242.4	3.3%	120-125	261.5	3.6%
5-10	80.8	1.1%	65-70	218.5	3.0%	125-130	276.0	3.8%
10-15	131.0	1.8%	70-75	194.1	2.7%	130-135	284.0	3.9%
15-20	176.5	2.4%	75-80	170.6	2.3%	135-140	285.5	3.9%
20-25	215.8	3.0%	80-85	149.7	2.1%	140-145	279.6	3.8%
25-30	247.3	3.4%	85-90	135.6	1.9%	145-150	265.5	3.6%
30-35	270.5	3.7%	90-95	136.2	1.9%	150-155	242.7	3.3%
35-40	285.1	3.9%	95-100	151.0	2.1%	155-160	211.8	2.9%
40-45	290.9	4.0%	100-105	172.0	2.4%	160-165	173.3	2.4%
45-50	288.9	4.0%	105-110	194.9	2.7%	165-170	128.6	1.8%
50-55	279.3	3.8%	110-115	218.3	3.0%	170-175	79.4	1.1%
55-60	263.4	3.6%	115-120	241.4	3.3%	175-180	26.9	0.4%

Zone	Lumens	% of Luminaire
0-40	1434	19.7%
0-60	2557	35.0%
0-90	3668	50.3%
90-180	3629	49.7%



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	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147	1147
5	1136	1138	1138	1140	1142	1140	1138	1138	1136	1138	1138	1140	1142	1140	1138	1138
10	1116	1116	1118	1121	1124	1121	1118	1116	1116	1116	1118	1121	1124	1121	1118	1116
15	1081	1082	1087	1098	1103	1098	1087	1082	1081	1082	1087	1098	1103	1098	1087	1082
20	1034	1035	1049	1069	1076	1069	1049	1035	1034	1035	1049	1069	1076	1069	1049	1035
25	975	977	1005	1031	1040	1031	1005	977	975	977	1005	1031	1040	1031	1005	977
30	905	912	952	984	997	984	952	912	905	912	952	984	997	984	952	912
35	830	843	890	931	947	931	890	843	830	843	890	931	947	931	890	843
40	748	767	824	873	893	873	824	767	748	767	824	873	893	873	824	767
45	662	690	755	811	835	811	755	690	662	690	755	811	835	811	755	690
50	576	611	682	749	773	749	682	611	576	611	682	749	773	749	682	611
55	492	531	611	682	710	682	611	531	492	531	611	682	710	682	611	531
60	408	451	540	617	648	617	540	451	408	451	540	617	648	617	540	451
65	323	373	469	557	594	557	469	373	323	373	469	557	594	557	469	373
70	239	297	405	507	546	507	405	297	239	297	405	507	546	507	405	297
75	161	227	353	463	504	463	353	227	161	227	353	463	504	463	353	227
80	89	169	310	425	466	425	310	169	89	169	310	425	466	425	310	169
85	33	127	277	394	436	394	277	127	33	127	277	394	436	394	277	127
90	7	111	263	382	424	382	263	111	7	111	263	382	424	382	263	111
95	24	130	280	398	441	398	280	130	24	130	280	398	441	398	280	130
100	77	173	314	430	473	430	314	173	77	173	314	430	473	430	314	173
105	146	230	358	469	511	469	358	230	146	230	358	469	511	469	358	230
110	223	293	411	513	553	513	411	293	223	293	411	513	553	513	411	293
115	304	362	474	564	601	564	474	362	304	362	474	564	601	564	474	362
120	388	438	540	624	657	624	540	438	388	438	540	624	657	624	540	438
125	470	516	606	687	718	687	606	516	470	516	606	687	718	687	606	516
130	553	594	672	747	775	747	672	594	553	594	672	747	775	747	672	594
135	636	672	739	804	830	804	739	672	636	672	739	804	830	804	739	672
140	719	749	808	863	885	863	808	749	719	749	808	863	885	863	808	749
145	799	824	874	919	936	919	874	824	799	824	874	919	936	919	874	824
150	875	892	935	971	985	971	935	892	875	892	935	971	985	971	935	892
155	943	957	989	1017	1027	1017	989	957	943	957	989	1017	1027	1017	989	957
160	1004	1015	1031	1054	1062	1054	1031	1015	1004	1015	1031	1054	1062	1054	1031	1015
165	1052	1061	1068	1081	1086	1081	1068	1061	1052	1061	1068	1081	1086	1081	1068	1061
170	1089	1096	1099	1105	1108	1105	1099	1096	1089	1096	1099	1105	1108	1105	1099	1096
175	1113	1119	1120	1122	1125	1122	1120	1119	1113	1119	1120	1122	1125	1122	1120	1119
180	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127

Vertical Angle (Degrees)

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

	0	45	90
0	17180	17180	17180
45	11720	8663	8844
55	10030	7226	7631
65	8055	5902	6689
75	5371	4915	6157
85	1735	4461	6022

Vertical Angle (Degrees)

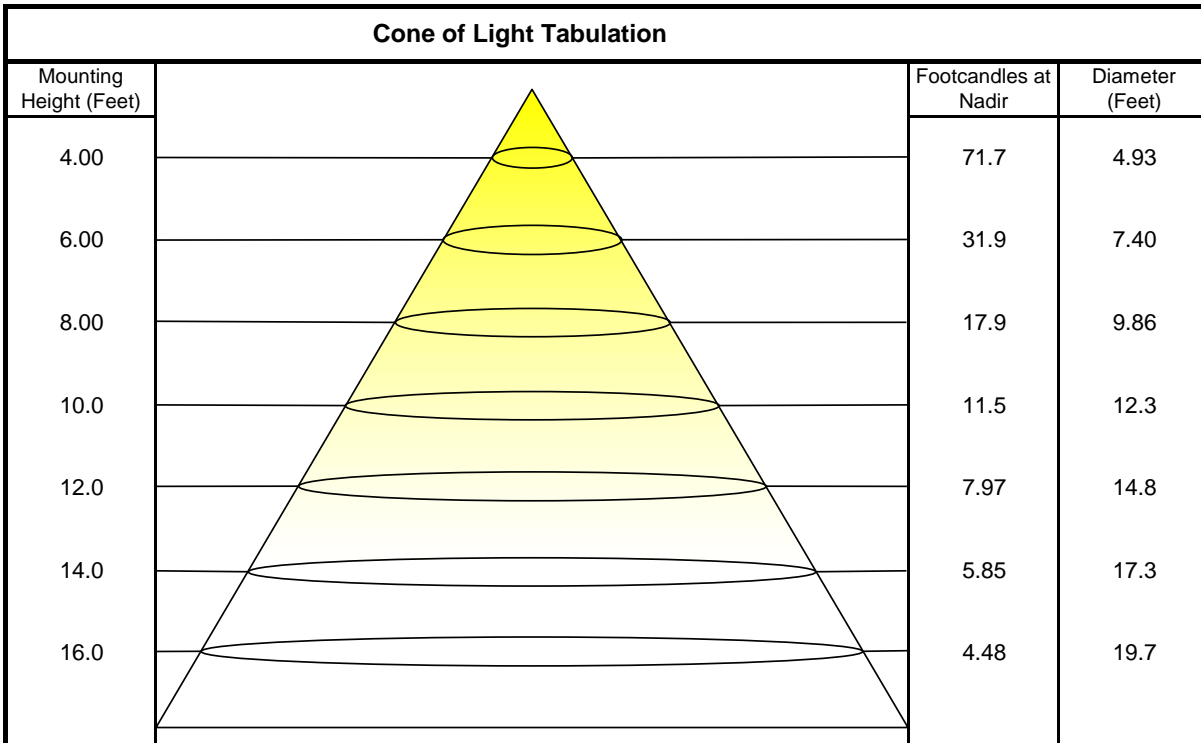


Coefficients of Utilization - Zonal Cavity Method

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	89	84	80	77	71	68	65	59	57	55	47	46	45	39
2	87	79	72	67	80	73	67	62	61	57	53	51	47	45	41	39	36	32
3	79	69	61	55	73	64	57	51	54	48	44	44	41	37	36	33	31	26
4	72	61	52	46	66	56	49	43	48	42	37	39	35	32	32	29	26	22
5	66	54	46	39	61	50	42	37	42	36	32	35	31	27	29	25	22	19
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20	17
7	56	44	35	30	52	40	33	28	34	29	24	29	24	21	24	20	17	15
8	52	40	32	26	48	37	30	25	31	26	21	26	22	18	22	18	16	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	17	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	19	15	13	11

Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	1147 Candela
Central Cone Intensity:	1144 Candela
Beam Flux:	4926.7 Lumens
Beam Angle (0-180):	100.3 Degrees
Beam Angle (90-270):	134.0 Degrees
Field Angle (0-180):	156.3 Degrees
Field Angle (90-270):	#REF! Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

