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Indoor Distribution Test Report

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

Prepared For
Lux Dynamics

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Catalog Number
360P-2-UD-835-xxx-xx-CA

Order Number
13551818
Test Number
13551818.05

Test Date

2020-10-30

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 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: 8013 Lumens
Luminaire Efficacy: 157.1 lm/w
Maximum Candela: 1410 Candela

Test Conditions

Test Temperature: 26.0 °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

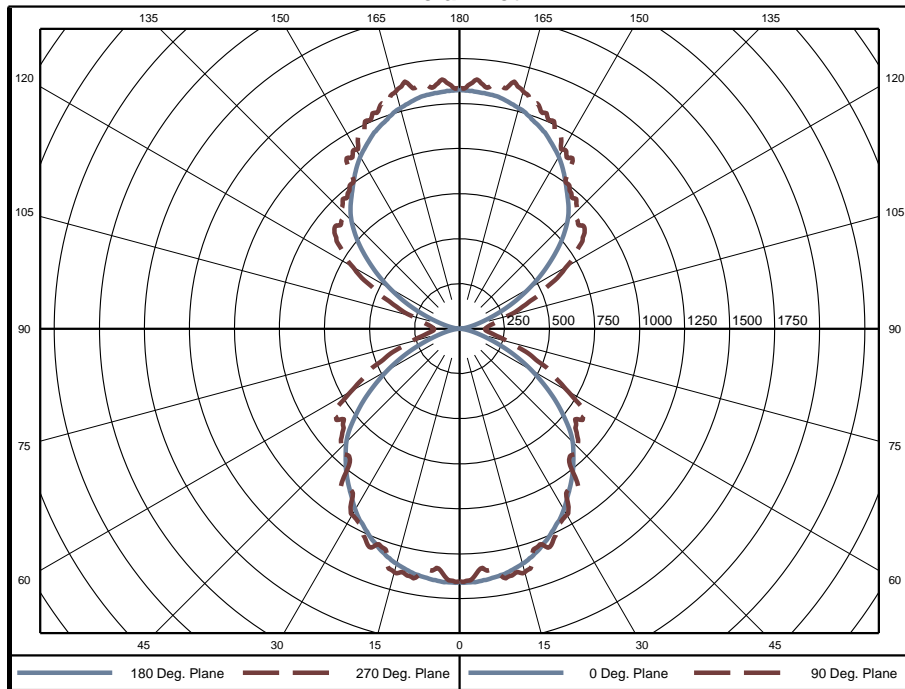
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
26.0 °C	277.0 VAC	0.1937 A	51.00 W	0.950	60 Hz	12.9 %

Summary of Results

Spacing Criteria	Total Lumen Output:	8013 Lumens
0-180: 1.23	Luminaire Efficacy:	157.1 lm/w
90-270: 1.24	Maximum Candela:	1410 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 16.9	Endwise: 18.2	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	33.1	0.4%	60-65	267.3	3.3%	120-125	299.6	3.7%
5-10	97.0	1.2%	65-70	220.8	2.8%	125-130	325.2	4.1%
10-15	161.1	2.0%	70-75	170.5	2.1%	130-135	335.5	4.2%
15-20	219.6	2.7%	75-80	123.0	1.5%	135-140	342.5	4.3%
20-25	269.3	3.4%	80-85	89.3	1.1%	140-145	340.8	4.3%
25-30	308.2	3.8%	85-90	71.9	0.9%	145-150	328.4	4.1%
30-35	334.2	4.2%	90-95	73.8	0.9%	150-155	303.2	3.8%
35-40	350.2	4.4%	95-100	90.5	1.1%	155-160	265.0	3.3%
40-45	348.0	4.3%	100-105	122.2	1.5%	160-165	216.1	2.7%
45-50	341.3	4.3%	105-110	167.8	2.1%	165-170	159.7	2.0%
50-55	322.1	4.0%	110-115	215.8	2.7%	170-175	96.6	1.2%
55-60	305.1	3.8%	115-120	265.7	3.3%	175-180	32.3	0.4%

Zone	Lumens	% of Luminaire
0-40	1773	22.1%
0-60	3089	38.6%
0-90	4032	50.3%
90-180	3981	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	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402	1402
5	1404	1383	1367	1339	1336	1339	1367	1383	1404	1383	1367	1339	1336	1339	1367	1383
10	1385	1340	1340	1379	1402	1379	1340	1340	1385	1340	1340	1379	1402	1379	1340	1340
15	1349	1284	1380	1385	1399	1385	1380	1284	1349	1284	1380	1385	1399	1385	1380	1284
20	1300	1286	1344	1279	1283	1279	1344	1286	1300	1286	1344	1279	1283	1279	1344	1286
25	1232	1262	1238	1275	1264	1275	1238	1262	1232	1262	1238	1275	1264	1275	1238	1262
30	1158	1185	1206	1182	1193	1182	1206	1185	1158	1185	1206	1182	1193	1182	1206	1185
35	1071	1093	1097	1063	1082	1063	1097	1093	1071	1093	1097	1063	1082	1063	1097	1093
40	983	1002	1019	1022	947	1022	1019	1002	983	1002	1019	1022	947	1022	1019	1002
45	889	893	879	882	928	882	879	893	889	893	879	882	928	882	879	893
50	757	763	765	817	843	817	765	763	757	763	765	817	843	817	765	763
55	611	658	645	792	843	792	645	658	611	658	645	792	843	792	645	658
60	463	531	573	727	698	727	573	531	463	531	573	727	698	727	573	531
65	322	412	579	567	557	567	579	412	322	412	579	567	557	567	579	412
70	194	317	462	422	415	422	462	317	194	317	462	422	415	422	462	317
75	104	248	351	311	281	311	351	248	104	248	351	311	281	311	351	248
80	50	172	252	216	200	216	252	172	50	172	252	216	200	216	252	172
85	18	112	205	168	154	168	205	112	18	112	205	168	154	168	205	112
90	5	88	188	154	141	154	188	88	5	88	188	154	141	154	188	88
95	13	114	211	172	160	172	211	114	13	114	211	172	160	172	211	114
100	43	176	258	211	202	211	258	176	43	176	258	211	202	211	258	176
105	96	253	349	297	274	297	349	253	96	253	349	297	274	297	349	253
110	184	318	474	413	388	413	474	318	184	318	474	413	388	413	474	318
115	309	400	562	562	521	562	562	400	309	400	562	562	521	562	562	400
120	444	514	634	694	681	694	634	514	444	514	634	694	681	694	634	514
125	586	634	655	809	824	809	655	634	586	634	655	809	824	809	655	634
130	727	757	757	831	894	831	757	757	727	757	757	831	894	831	757	757
135	849	863	891	907	930	907	891	863	849	863	891	907	930	907	891	863
140	937	988	995	959	968	959	995	988	937	988	995	959	968	959	995	988
145	1020	1075	1081	1093	1043	1093	1081	1075	1020	1075	1081	1093	1043	1093	1081	1075
150	1103	1166	1183	1183	1147	1183	1183	1166	1103	1166	1183	1183	1147	1183	1183	1166
155	1168	1239	1236	1245	1249	1245	1236	1239	1168	1239	1236	1245	1249	1245	1236	1239
160	1220	1280	1314	1305	1305	1305	1314	1280	1220	1280	1314	1305	1305	1305	1314	1280
165	1268	1303	1339	1370	1365	1370	1339	1303	1268	1303	1339	1370	1365	1370	1339	1303
170	1302	1356	1339	1364	1365	1364	1339	1356	1302	1356	1339	1364	1365	1364	1339	1356
175	1316	1338	1374	1376	1369	1376	1374	1338	1316	1338	1374	1376	1369	1376	1374	1338
180	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334	1334

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

	0	45	90
0	21000	21000	21000
45	15750	10090	9828
55	12460	7628	9067
65	8045	7295	6279
75	3487	4892	3440
85	970	3309	2128

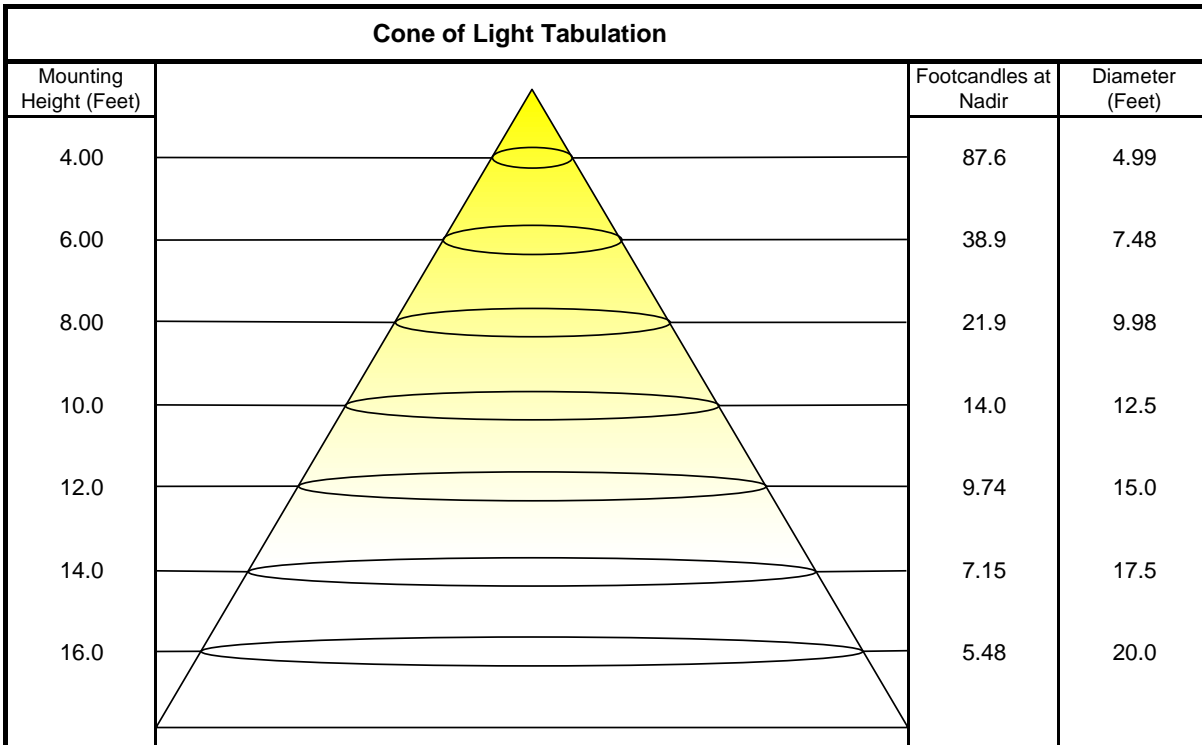


Coefficients of Utilization - Zonal Cavity Method

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	84	84	84	69	69	69	56	56	56	50
1	97	93	89	85	90	86	82	79	72	70	67	60	58	57	49	48	47	41
2	88	81	74	69	81	75	69	64	63	59	55	53	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46	46	43	40	38	35	33	29
4	74	63	54	48	68	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	29	33	29	25	27	24	21	19
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	24	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12

Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	1402 Candela
Central Cone Intensity:	1390 Candela
Beam Flux:	5606.2 Lumens
Beam Angle (0-180):	103.9 Degrees
Beam Angle (90-270):	119.8 Degrees
Field Angle (0-180):	145.3 Degrees
Field Angle (90-270):	#REF! Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

