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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-DR-835-xxx-xx-CA

Order Number
13551818
Test Number
13551818.03

Test Date

2020-11-03

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: 3.00 in.

Summary of Results

Total Luminaire Output: 7848 Lumens
Luminaire Efficacy: 153.8 lm/w
Maximum Candela: 1970 Candela

Test Conditions

Test Temperature: 25.5 °C
Voltage: 277.0 VAC
Current: 0.1942 A
Power: 51.03 W
Power Factor: 0.949
Frequency: 60 Hz
Current THD: 13.0 %

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



Distribution - Goniophotometer

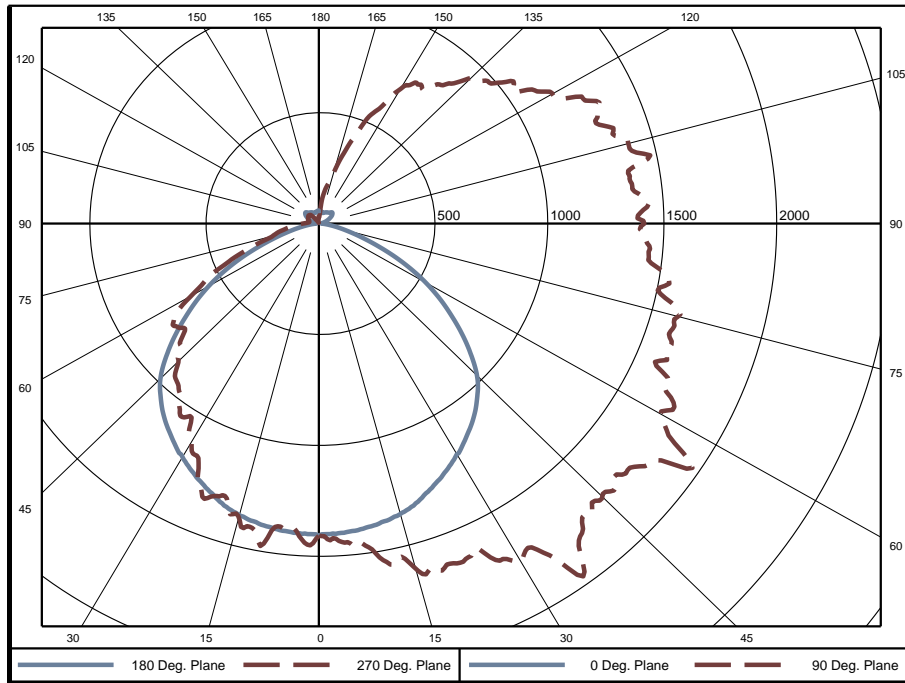
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	277.0 VAC	0.1942 A	51.03 W	0.949	60 Hz	13.0 %

Summary of Results

Spacing Criteria	Total Lumen Output:	7848 Lumens
0-180: 1.27	Luminaire Efficacy:	153.8 lm/w
90-270: 1.84	Maximum Candela:	1970 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)	Endwise:	23.8
Crosswise: 22.7		

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	33.9	0.4%	60-65	420.0	5.4%	120-125	163.5	2.1%
5-10	101.3	1.3%	65-70	379.5	4.8%	125-130	144.4	1.8%
10-15	170.2	2.2%	70-75	341.3	4.3%	130-135	125.9	1.6%
15-20	235.1	3.0%	75-80	303.5	3.9%	135-140	106.7	1.4%
20-25	295.0	3.8%	80-85	275.9	3.5%	140-145	87.7	1.1%
25-30	346.7	4.4%	85-90	249.6	3.2%	145-150	68.9	0.9%
30-35	388.3	4.9%	90-95	239.0	3.0%	150-155	46.6	0.6%
35-40	429.3	5.5%	95-100	226.9	2.9%	155-160	28.6	0.4%
40-45	443.4	5.6%	100-105	226.9	2.9%	160-165	15.6	0.2%
45-50	451.0	5.7%	105-110	215.4	2.7%	165-170	8.3	0.1%
50-55	443.8	5.7%	110-115	204.5	2.6%	170-175	4.0	0.1%
55-60	441.6	5.6%	115-120	184.5	2.4%	175-180	1.1	0.0%

Zone	Lumens	% of Luminaire
0-40	2000	25.5%
0-60	3780	48.2%
0-90	5749	73.3%
90-180	2099	26.7%



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	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408
5	1397	1418	1430	1439	1442	1439	1430	1418	1397	1434	1410	1378	1384	1378	1410	1434
10	1382	1417	1447	1496	1529	1496	1447	1417	1382	1383	1365	1437	1476	1437	1365	1383
15	1358	1421	1537	1548	1603	1548	1537	1421	1358	1331	1423	1403	1365	1403	1423	1331
20	1316	1420	1535	1628	1636	1628	1535	1420	1316	1295	1352	1287	1308	1287	1352	1295
25	1263	1450	1525	1613	1615	1613	1525	1450	1263	1275	1249	1279	1254	1279	1249	1275
30	1202	1413	1507	1689	1760	1689	1507	1413	1202	1194	1197	1153	1121	1153	1197	1194
35	1141	1284	1537	1711	1895	1711	1537	1284	1141	1126	1094	1019	1058	1019	1094	1126
40	1068	1222	1546	1788	1797	1788	1546	1222	1068	1025	960	953	956	953	960	1025
45	976	1162	1517	1648	1752	1648	1517	1162	976	894	854	862	869	862	854	894
50	840	1110	1446	1630	1753	1630	1446	1110	840	776	724	759	773	759	724	776
55	692	1017	1225	1682	1894	1682	1225	1017	692	644	595	732	778	732	595	644
60	544	860	1247	1701	1725	1701	1247	860	544	505	540	659	637	659	540	505
65	385	747	1270	1607	1689	1607	1270	747	385	378	498	513	483	513	498	378
70	234	593	1250	1510	1633	1510	1250	593	234	279	404	359	319	359	404	279
75	127	514	1115	1453	1624	1453	1115	514	127	202	286	222	205	222	286	202
80	62	420	1041	1445	1556	1445	1041	420	62	128	194	150	152	150	194	128
85	24	341	1003	1368	1448	1368	1003	341	24	70	130	111	103	111	130	70
90	9	304	981	1301	1423	1301	981	304	9	42	87	81	68	81	87	42
95	12	289	934	1297	1418	1297	934	289	12	36	68	56	47	56	68	36
100	18	290	916	1268	1374	1268	916	290	18	42	58	46	42	46	58	42
105	27	301	884	1278	1401	1278	884	301	27	52	55	46	44	46	55	52
110	38	306	841	1216	1305	1216	841	306	38	55	58	50	49	50	58	55
115	50	314	794	1175	1311	1175	794	314	50	39	64	52	52	52	64	39
120	62	336	717	1045	1178	1045	717	336	62	22	67	56	54	56	67	22
125	72	349	643	989	1036	989	643	349	72	16	61	58	56	58	61	16
130	76	358	599	902	983	902	599	358	76	12	44	57	57	57	44	12
135	70	331	641	807	925	807	641	331	70	9	23	52	54	52	23	9
140	64	293	614	730	820	730	614	293	64	8	17	30	39	30	17	8
145	62	240	534	748	766	748	534	240	62	10	13	18	20	18	13	10
150	58	174	437	614	691	614	437	174	58	16	9	12	14	12	9	16
155	54	126	308	490	544	490	308	126	54	19	8	8	9	8	8	19
160	50	103	192	325	371	325	192	103	50	25	10	6	6	6	10	25
165	52	85	137	183	215	183	137	85	52	32	17	8	5	8	17	32
170	55	69	95	117	152	117	95	69	55	39	26	15	10	15	26	39
175	57	61	65	64	42	64	65	61	57	46	36	22	18	22	36	46
180	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46

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

	0	45	90
0	21080	21080	21080
45	18280	20550	22260
55	15220	17720	25340
65	10650	20380	24630
75	4957	20790	26950
85	1641	23150	28850

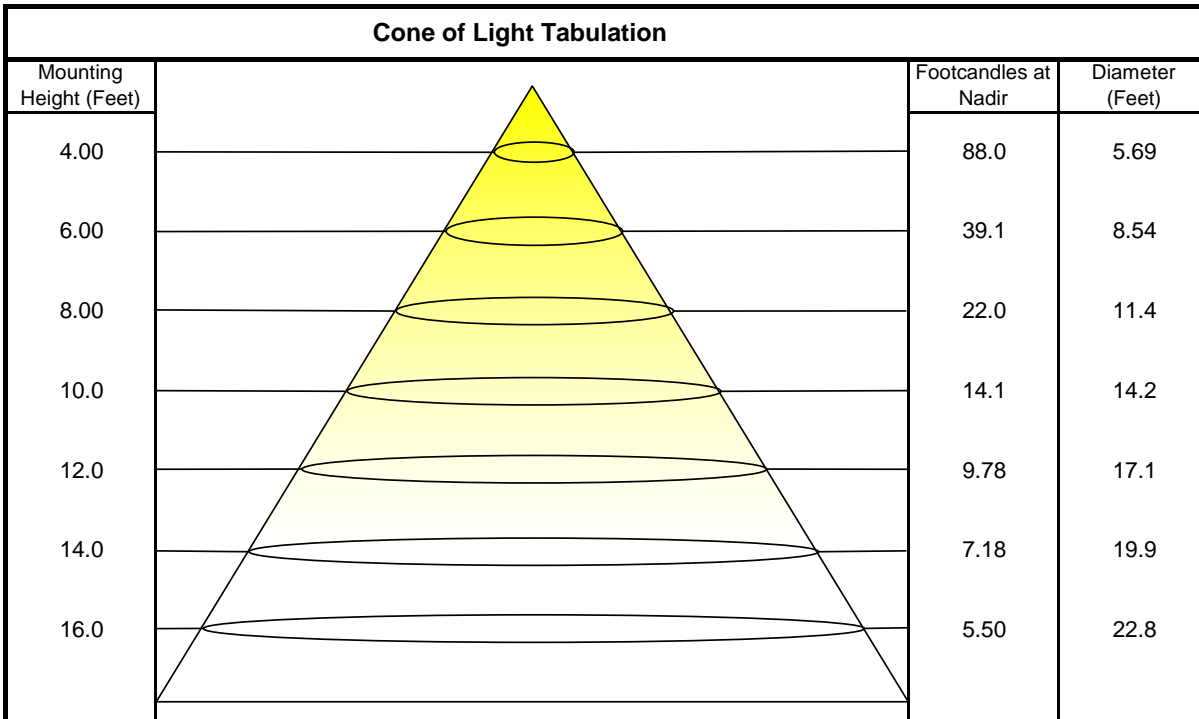


Coefficients of Utilization - Zonal Cavity Method

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	100	94	89	84	94	89	85	81	80	76	73	72	69	66	64	62	60	56
2	90	81	73	67	85	77	70	64	69	63	58	61	57	53	55	51	48	44
3	81	70	61	54	77	66	59	52	60	53	48	53	48	44	47	43	40	36
4	74	62	52	45	70	58	50	43	52	46	40	47	41	37	42	37	33	30
5	68	55	45	38	64	52	43	37	47	40	34	42	36	31	37	33	29	26
6	62	49	40	33	59	46	38	32	42	35	29	38	32	27	34	29	25	22
7	58	44	35	29	54	42	34	28	38	31	26	34	28	24	31	26	22	19
8	53	40	31	25	50	38	30	25	34	28	23	31	25	21	28	23	19	17
9	50	36	28	23	47	35	27	22	32	25	20	29	23	19	26	21	17	15
10	47	33	25	20	44	32	25	20	29	23	18	26	21	17	24	19	16	14

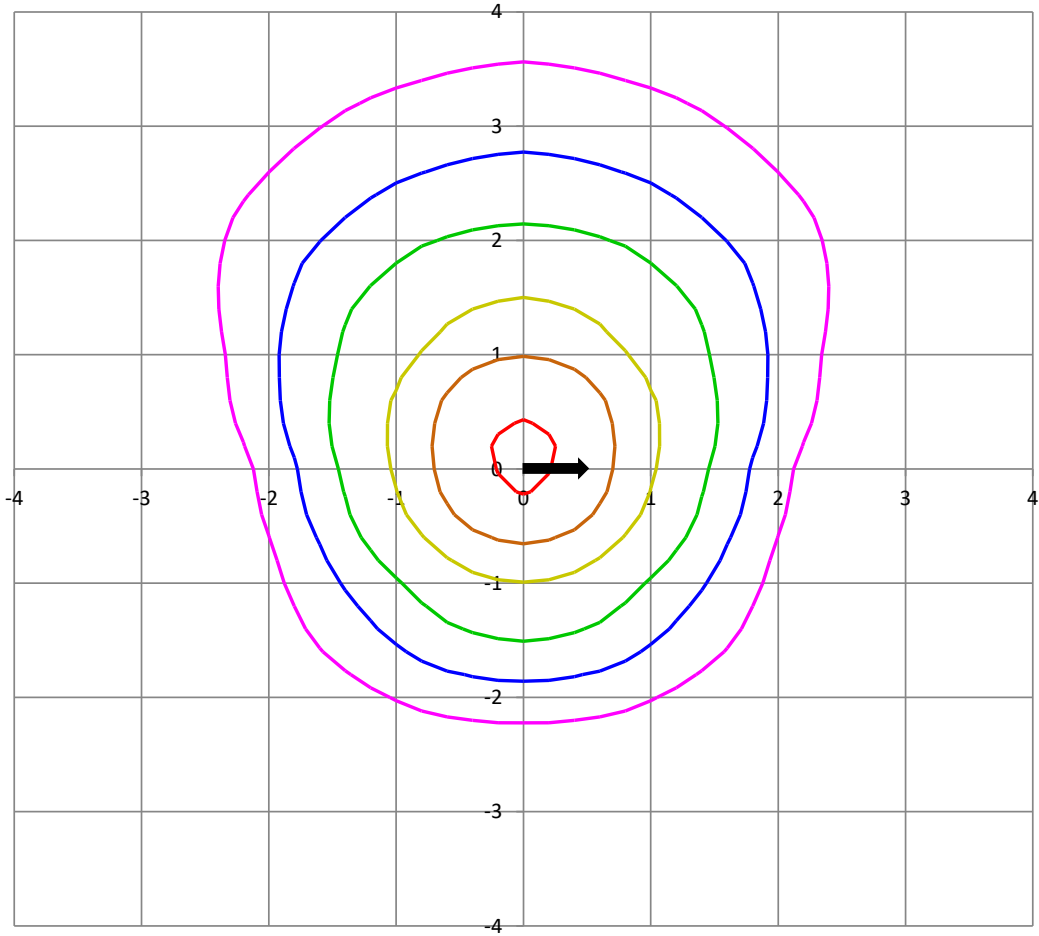
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	1408 Candela
Central Cone Intensity:	1418 Candela
Beam Flux:	6465.6 Lumens
Beam Angle (0-180):	109.2 Degrees
Beam Angle (90-270):	207.9 Degrees
Field Angle (0-180):	148.4 Degrees
Field Angle (90-270):	252.1 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

