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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Picasso Lighting Industries

46 Sellers St
Kearny, NJ 07032-4216
United States

Catalog Number
SPL10-20G-12W-30K-D12-SP-D10-UE

Order Number
12258149
Test Number
12258149.01

Test Date

2018-04-11

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed aluminum housing, patterned specular reflector, no lens enclosure
Lamp: One white LED
Mounting: Surface – Ceiling
Ballast/Driver: One Philips XI020C056V054BST2 driver

Luminaire



Luminaire Characteristics
Luminous Diameter: 2.00 in.

Summary of Results

Total Luminaire Output:	1362 Lumens
Luminaire Efficacy:	107.2 lm/w
Maximum Candela:	5133 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1069 A
Power:	12.71 W
Power Factor:	0.989
Frequency:	60 Hz
Current THD:	12.5 %

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



Distribution - Goniophotometer

Distribution Test Conditions

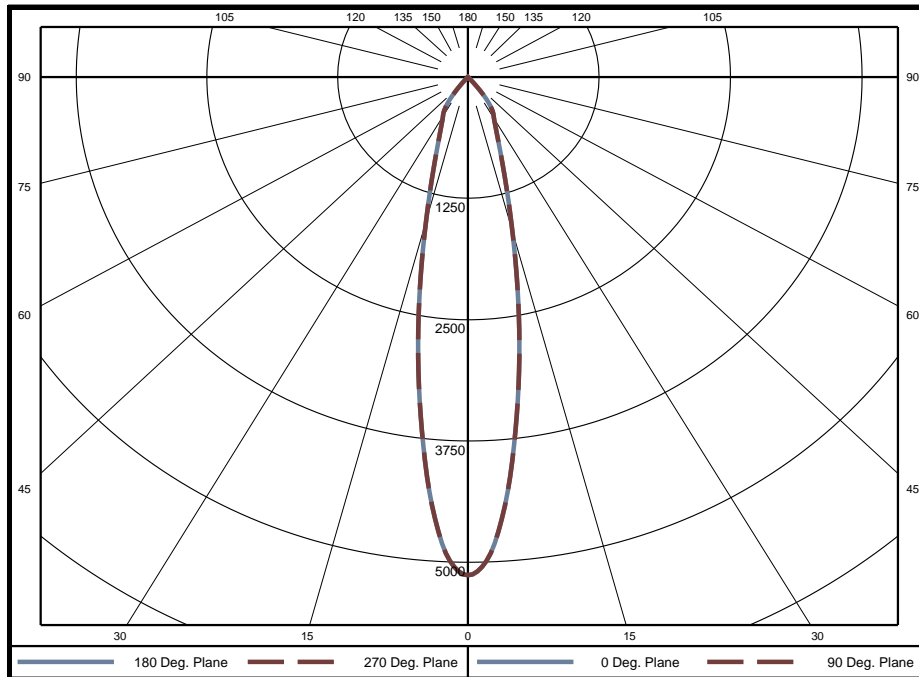
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1069 A	12.71 W	0.989	60 Hz	12.5 %

Summary of Results

Spacing Criteria
 0-180: 0.36
 90-270: 0.36

Total Lumen Output: 1362 Lumens
Luminaire Efficacy: 107.2 lm/w
Maximum Candela: 5133 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	112.4	8.3%	60-65	1.6	0.1%	120-125	0	0.0%
5-10	246.2	18.1%	65-70	1.4	0.1%	125-130	0	0.0%
10-15	249.7	18.3%	70-75	1.3	0.1%	130-135	0	0.0%
15-20	200.4	14.7%	75-80	1.2	0.1%	135-140	0	0.0%
20-25	161.9	11.9%	80-85	0.9	0.1%	140-145	0	0.0%
25-30	140.5	10.3%	85-90	0.3	0.0%	145-150	0	0.0%
30-35	128.6	9.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	89.5	6.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	21.1	1.5%	100-105	0	0.0%	160-165	0	0.0%
45-50	2.0	0.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	1.6	0.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	1.6	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1329	97.6%
0-60	1356	99.5%
0-90	1362	100.0%
90-180	0	0.0%



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	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133	5133
5	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287	4287
10	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781
15	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590	1590
20	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949	949
25	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643	643
30	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489	489
35	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
40	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
45	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
50	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
55	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
65	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
70	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
75	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
80	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
85	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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

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

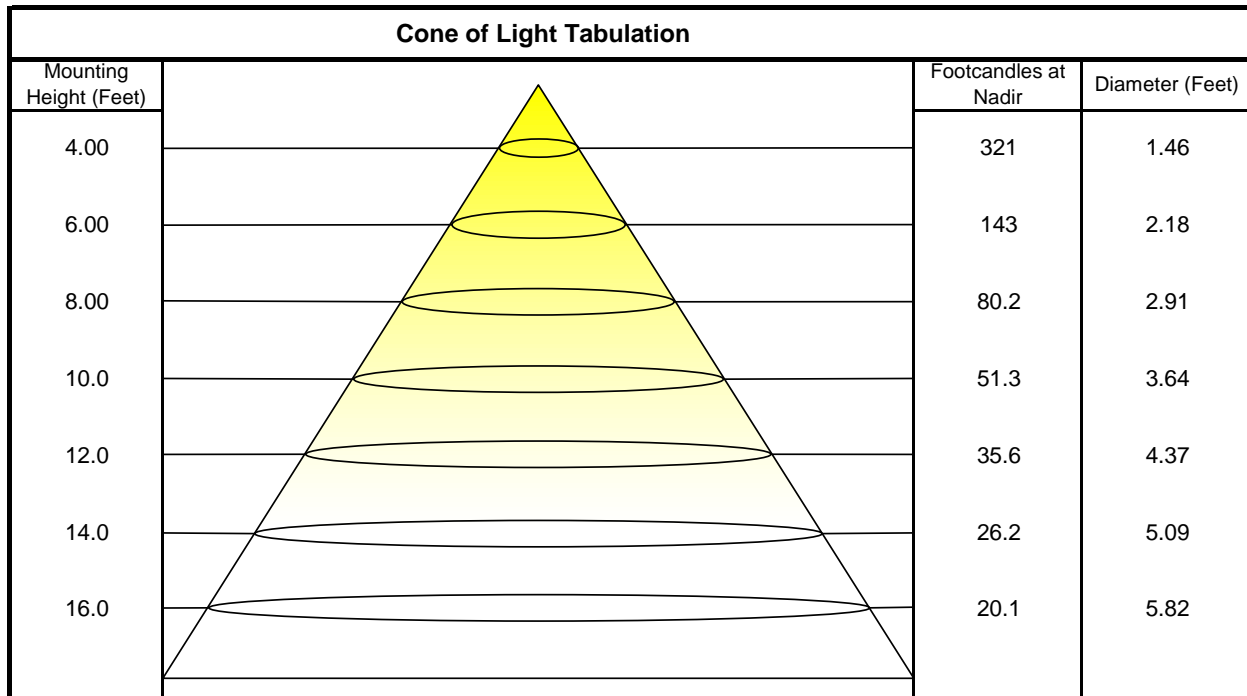
	0	45	90
0	2533000	2533000	2533000
45	5831	5831	5831
55	3077	3077	3077
65	3584	3584	3584
75	4380	4380	4380
85	6692	6692	6692



Utilization of Lumens - 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 Lumens delivered to the task surface **																	
0	1622	1622	1622	1622	1584	1584	1584	1584	1514	1514	1514	1449	1449	1449	1390	1390	1390	1362
1	1557	1524	1495	1468	1524	1495	1469	1445	1441	1420	1401	1390	1374	1359	1344	1332	1320	1296
2	1495	1438	1390	1351	1466	1415	1372	1336	1372	1337	1307	1332	1304	1279	1295	1273	1253	1232
3	1435	1361	1303	1258	1409	1342	1290	1248	1308	1264	1228	1276	1240	1209	1246	1217	1191	1172
4	1378	1292	1229	1180	1356	1277	1219	1173	1249	1199	1160	1223	1181	1147	1199	1163	1134	1116
5	1325	1230	1163	1114	1305	1218	1156	1110	1195	1141	1100	1173	1127	1091	1153	1114	1082	1064
6	1275	1174	1106	1057	1257	1164	1100	1054	1144	1089	1047	1127	1078	1040	1110	1067	1034	1017
7	1227	1122	1054	1007	1211	1114	1050	1004	1098	1041	999	1083	1032	994	1069	1024	989	973
8	1183	1076	1008	962	1168	1069	1005	960	1055	997	956	1042	990	952	1030	984	949	933
9	1142	1033	966	921	1128	1027	963	920	1015	958	917	1004	952	914	994	946	911	896
10	1103	994	928	885	1091	988	926	884	978	921	882	969	916	879	960	912	877	862

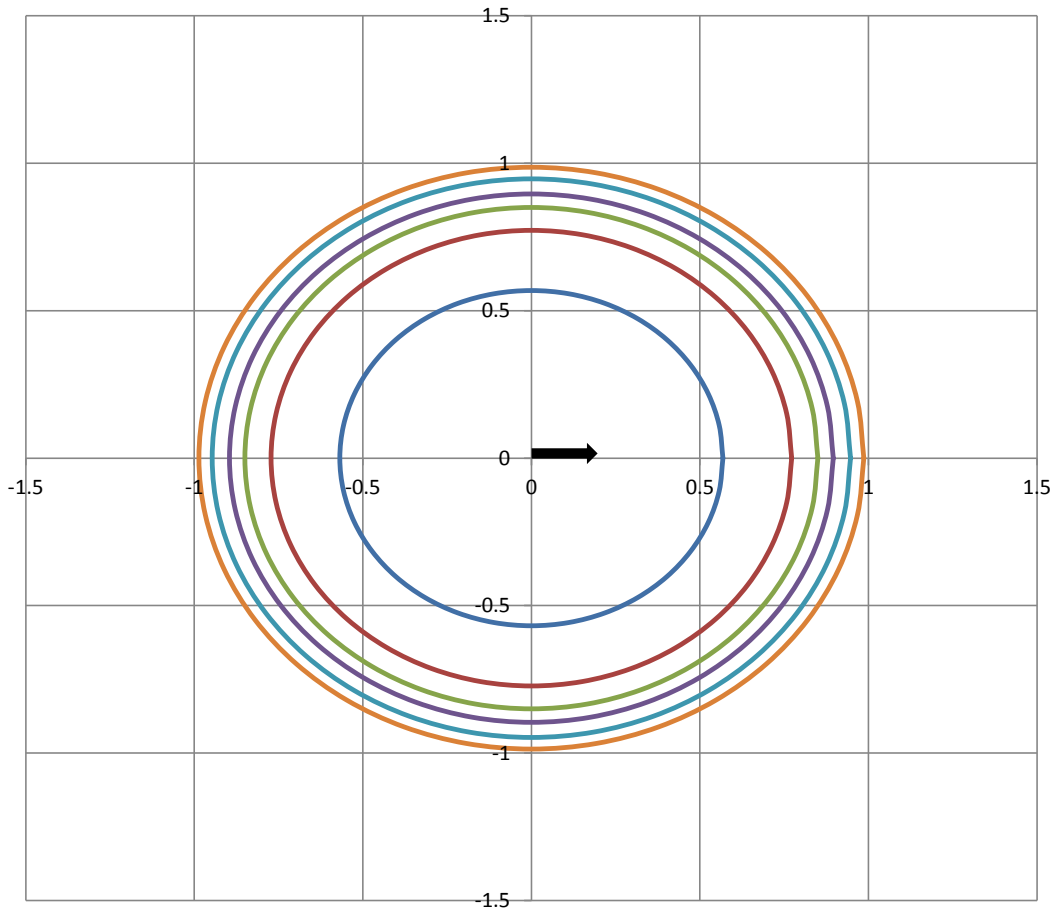
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	5133 Candela
Central Cone Intensity:	4826 Candela
Beam Flux:	397.8 Lumens
Beam Angle (0-180):	21.6 Degrees
Beam Angle (90-270):	21.6 Degrees
Field Angle (0-180):	57.8 Degrees
Field Angle (90-270):	57.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

