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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
SPL13-30G-12W-30K-D12-SP-D10-UE

Order Number
12258149
Test Number
12258149.02

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:	1243 Lumens
Luminaire Efficacy:	108.7 lm/w
Maximum Candela:	3278 Candela

Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.1 VAC
Current:	0.09644 A
Power:	11.44 W
Power Factor:	0.988
Frequency:	60 Hz
Current THD:	13.5 %

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



Distribution - Goniophotometer

Distribution Test Conditions

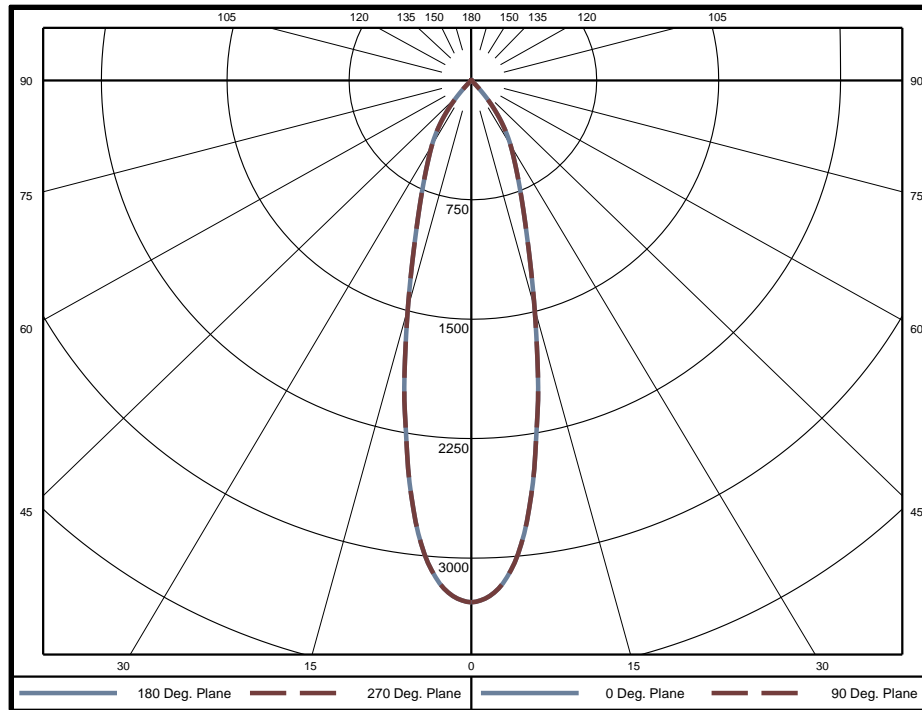
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.09644 A	11.44 W	0.988	60 Hz	13.5 %

Summary of Results

Spacing Criteria
 0-180: 0.47
 90-270: 0.47

Total Lumen Output: 1243 Lumens
Luminaire Efficacy: 108.7 lm/w
Maximum Candela: 3278 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	75.6	6.1%	60-65	1.4	0.1%	120-125	0	0.0%
5-10	190.2	15.3%	65-70	1.2	0.1%	125-130	0	0.0%
10-15	220.8	17.8%	70-75	1.1	0.1%	130-135	0	0.0%
15-20	197.8	15.9%	75-80	1.0	0.1%	135-140	0	0.0%
20-25	169.3	13.6%	80-85	0.8	0.1%	140-145	0	0.0%
25-30	145.4	11.7%	85-90	0.3	0.0%	145-150	0	0.0%
30-35	120.5	9.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	81.0	6.5%	95-100	0	0.0%	155-160	0	0.0%
40-45	30.4	2.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	3.2	0.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	1.3	0.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	1.4	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1201	96.6%
0-60	1237	99.5%
0-90	1243	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278	3278
	5	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042	3042
	10	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286	2286
	15	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503	1503
	20	973	973	973	973	973	973	973	973	973	973	973	973	973	973	973	973
	25	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677
	30	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490	490
	35	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
	40	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159	159
	45	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	55	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	60	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	65	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	70	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	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)

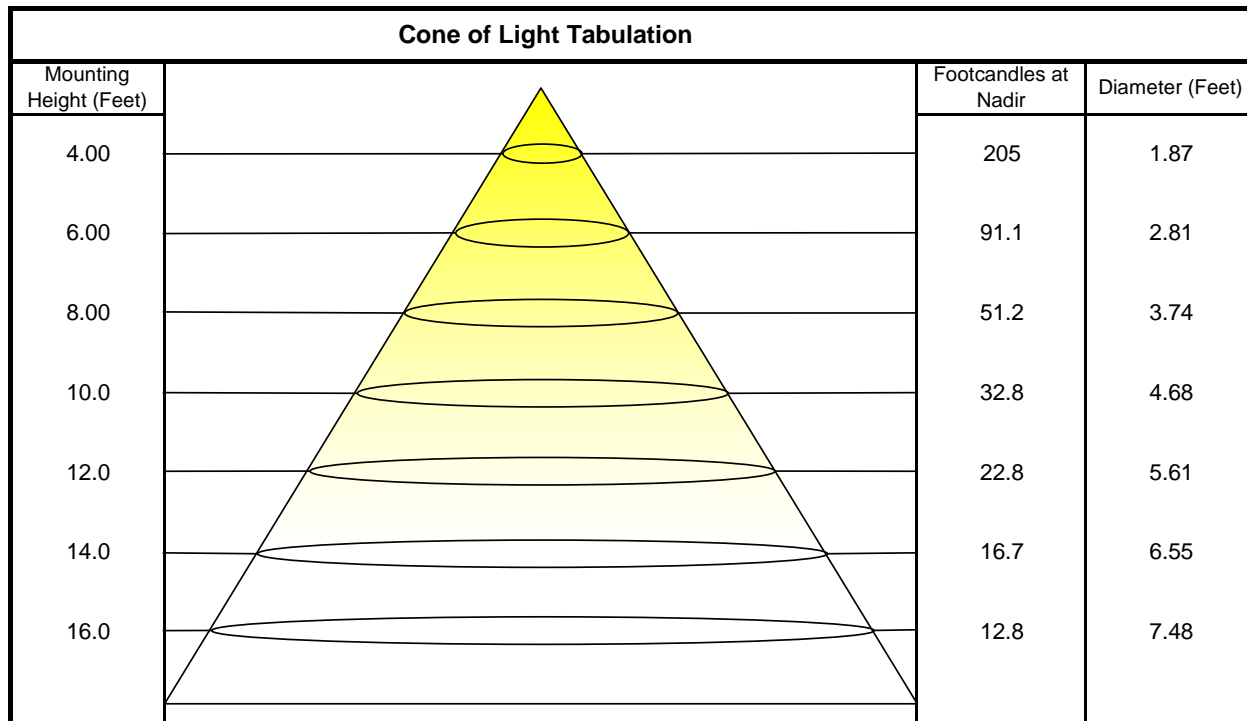
Vertical Angle (Degrees)	0	45	90	
	0	1617000	1617000	1617000
	45	17300	17300	17300
	55	2563	2563	2563
	65	3102	3102	3102
	75	3770	3770	3770
	85	6138	6138	6138



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	1479	1479	1479	1479	1445	1445	1445	1445	1381	1381	1381	1322	1322	1322	1268	1268	1268	1243
1	1419	1387	1360	1335	1388	1361	1336	1313	1311	1291	1273	1265	1250	1235	1223	1211	1200	1178
2	1359	1305	1260	1223	1332	1284	1243	1209	1244	1211	1183	1208	1181	1158	1174	1153	1134	1115
3	1301	1231	1177	1133	1278	1214	1164	1124	1183	1141	1107	1153	1119	1090	1126	1097	1073	1055
4	1247	1165	1105	1059	1226	1151	1096	1053	1125	1078	1040	1101	1061	1029	1079	1045	1017	1000
5	1195	1105	1042	995	1177	1094	1035	991	1072	1021	982	1053	1008	974	1034	996	966	949
6	1147	1051	986	940	1130	1041	981	937	1024	970	930	1007	960	924	992	950	918	902
7	1101	1001	936	891	1086	993	932	888	978	924	884	964	916	879	951	908	875	860
8	1058	956	891	847	1044	949	888	845	936	881	842	924	875	838	913	869	835	820
9	1018	914	851	808	1005	908	848	806	897	842	804	887	837	801	878	832	799	784
10	980	876	814	772	969	871	811	771	862	807	769	853	802	767	844	798	765	751

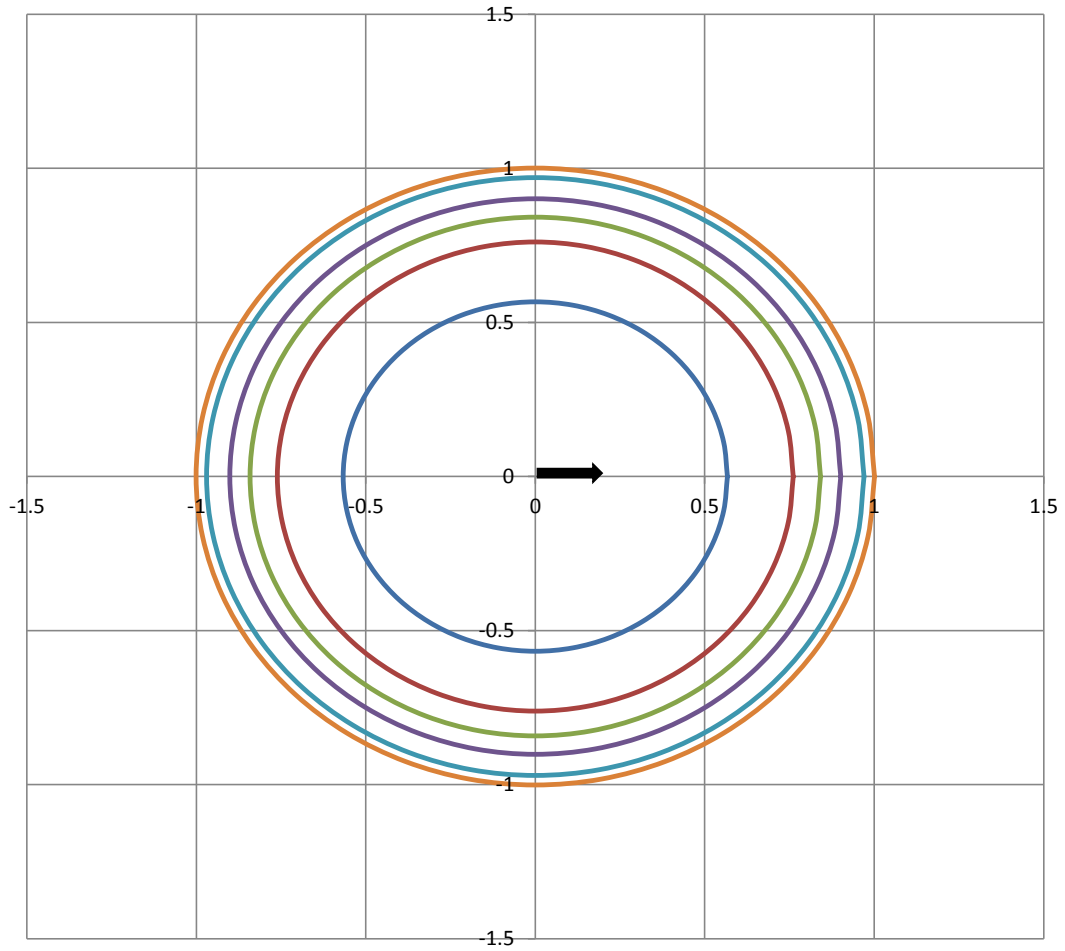
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3278 Candela
Central Cone Intensity:	3196 Candela
Beam Flux:	445.3 Lumens
Beam Angle (0-180):	28.1 Degrees
Beam Angle (90-270):	28.1 Degrees
Field Angle (0-180):	70.1 Degrees
Field Angle (90-270):	70.1 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

