

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

SOP-C-4-I7-30-80-FW-W

(White Housing – Indirect – Frosted White Lens)

Test Number

IES-P00108

Test Date

2017-07-21

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 Picasso Lighting Industries, LLC.

Luminaire Description:	Extruded Aluminum Body, Indirect w/ Frosted White Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Cove Mounted
Luminous Length:	47.75 in
Luminous Width:	1.52 in
Luminous Height:	0.00 in

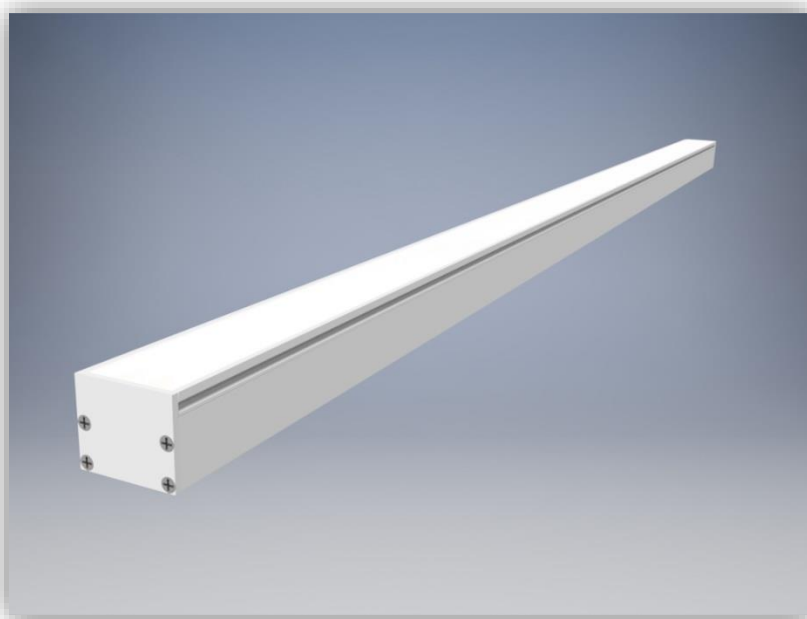


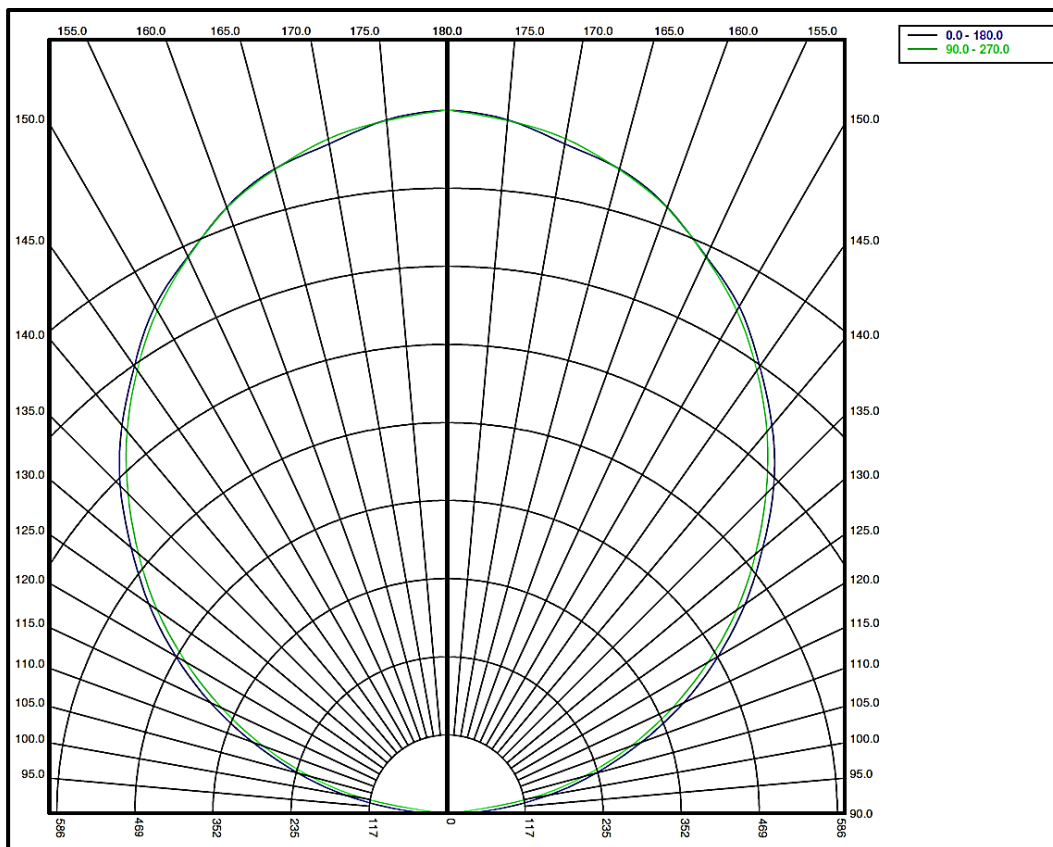
Image may differ slightly from actual unit

Summary of Results

System Power:	27.2W
Total Luminaire Output:	3007 Lumens
Luminaire Efficacy:	111 lm/W
Max Candela:	1055.3 Candela

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

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0-10	0	0.0%	90-100	64.55	2.1%
10-20	0	0.0%	100-110	234.81	7.8%
20-30	0	0.0%	110-120	379	12.6%
30-40	0	0.0%	120-130	482	16.0%
40-50	0	0.0%	130-140	529.5	17.6%
50-60	0	0.0%	140-150	510.87	17.0%
60-70	0	0.0%	150-160	425.42	14.1%
70-80	0	0.0%	160-170	281.72	9.4%
80-90	0	0.0%	170-180	99.26	3.3%
0-90	0	0.0%	0-180	3007.13	100.0%

Candela Distribution

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
90	19	5	2	2	2	2	2	5	19	5	2	2	2	2	2	5
95	81	70	41	21	16	21	41	70	81	70	41	21	16	21	41	70
100	156	152	143	132	124	132	143	152	156	152	143	132	124	132	143	152
105	232	229	222	217	214	217	222	229	232	229	222	217	214	217	222	229
110	311	308	303	296	294	296	303	308	311	308	303	296	294	296	303	308
115	393	390	381	377	374	377	381	390	393	390	381	377	374	377	381	390
120	470	470	463	455	453	455	463	470	470	470	463	455	453	455	463	470
125	547	544	539	533	532	533	539	544	547	544	539	533	532	533	539	544
130	619	621	614	609	605	609	614	621	619	621	614	609	605	609	614	621
135	694	690	686	682	678	682	686	690	694	690	686	682	678	682	686	690
140	760	758	757	751	748	751	757	758	760	758	757	751	748	751	757	758
145	819	818	817	812	811	812	817	818	819	818	817	812	811	812	817	818
150	878	878	874	870	871	870	874	878	878	878	874	870	871	870	874	878
155	922	926	924	921	920	921	924	926	922	926	924	921	920	921	924	926
160	968	963	965	964	967	964	965	963	968	963	965	964	967	964	965	963
165	1001	997	995	999	1000	999	995	997	1001	997	995	999	1000	999	995	997
170	1020	1028	1023	1024	1028	1024	1023	1028	1020	1028	1023	1024	1028	1024	1023	1028
175	1045	1049	1045	1051	1043	1051	1045	1049	1045	1049	1045	1051	1043	1051	1045	1049
180	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Values are in Lumens delivered to the Task Plane																	
0	2857	2857	2857	2857	2436	2436	2436	2436	1684	1684	1684	962	962	962	301	301	301	0
1	2616	2496	2376	2285	2225	2135	2045	1955	1443	1413	1353	842	812	782	271	271	241	0
2	2376	2165	1985	1864	2015	1864	1714	1594	1263	1203	1113	722	692	662	241	210	210	0
3	2165	1894	1684	1534	1834	1624	1473	1323	1113	1022	932	631	601	541	210	180	180	0
4	1955	1684	1443	1293	1684	1443	1263	1113	992	872	782	571	511	481	180	180	150	0
5	1804	1473	1263	1083	1534	1263	1083	962	872	752	662	511	451	391	150	150	120	0
6	1654	1323	1083	932	1413	1143	962	812	782	662	571	451	391	331	150	120	120	0
7	1504	1173	962	812	1293	1022	842	692	692	571	511	421	331	301	120	120	90	0
8	1413	1052	842	692	1203	902	722	601	631	511	421	361	301	271	120	90	90	0
9	1293	962	752	601	1113	842	662	541	571	451	391	331	271	241	120	90	90	0
10	1203	872	662	541	1022	752	571	481	511	421	331	301	241	210	90	90	60	0

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	0 fc	0 ft
8 ft	0 fc	0 ft
10 ft	0 fc	0 ft
12 ft	0 fc	0 ft
15 ft	0 fc	0 ft

