



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
NIC-PSW-4-D5-30-80-FW-W
(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00037

Test Date

2017-06-13

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Frosted Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface & Wall Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

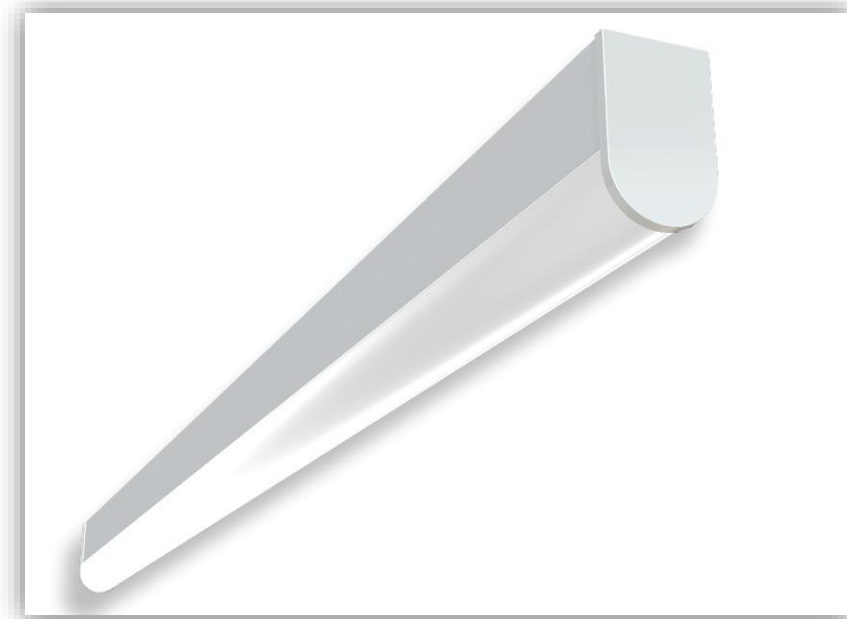


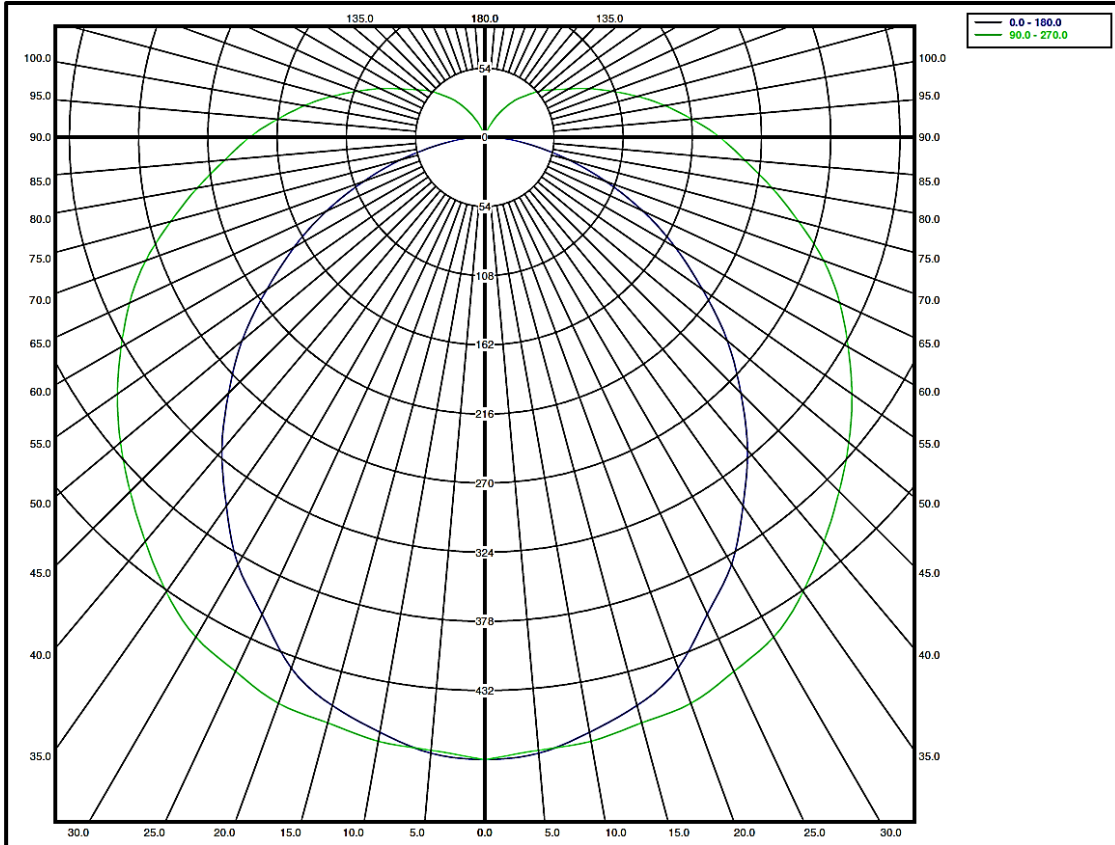
Image may differ slightly from actual unit

Summary of Results

System Power:	17.3W
Total Luminaire Output:	2001 Lumens
Luminaire Efficacy:	116 lm/W
Max Candela:	485.84 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	45.83	2.3%	90-100	106.41	5.3%
10-20	131.49	6.6%	100-110	74.49	3.7%
20-30	201.46	10.1%	110-120	49.65	2.5%
30-40	247.68	12.4%	120-130	31.98	1.6%
40-50	265.08	13.2%	130-140	18.83	0.9%
50-60	256.76	12.8%	140-150	8.79	0.4%
60-70	228.85	11.4%	150-160	2.64	0.1%
70-80	187.57	9.4%	160-170	0.33	0.0%
80-90	143.38	7.2%	170-180	0	0.0%
0-90	1708.1	85.4%	0-180	2001.22	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
0	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
5	483	485	482	482	480	482	482	485	483	485	482	482	480	482	482	485
10	472	471	476	478	479	478	476	471	472	471	476	478	479	478	476	471
15	459	459	465	471	473	471	465	459	459	459	465	471	473	471	465	459
20	441	443	452	463	470	463	452	443	441	443	452	463	470	463	452	443
25	411	420	436	454	460	454	436	420	411	420	436	454	460	454	436	420
30	385	394	420	440	451	440	420	394	385	394	420	440	451	440	420	394
35	351	367	399	423	433	423	399	367	351	367	399	423	433	423	399	367
40	319	338	377	404	412	404	377	338	319	338	377	404	412	404	377	338
45	283	306	347	381	391	381	347	306	283	306	347	381	391	381	347	306
50	247	274	321	356	371	356	321	274	247	274	321	356	371	356	321	274
55	208	241	293	334	350	334	293	241	208	241	293	334	350	334	293	241
60	172	208	264	311	327	311	264	208	172	208	264	311	327	311	264	208
65	136	175	238	288	306	288	238	175	136	175	238	288	306	288	238	175
70	101	146	215	264	281	264	215	146	101	146	215	264	281	264	215	146
75	68	118	191	238	254	238	191	118	68	118	191	238	254	238	191	118
80	40	95	166	213	228	213	166	95	40	95	166	213	228	213	166	95
85	20	74	145	190	204	190	145	74	20	74	145	190	204	190	145	74
90	9	59	128	170	184	170	128	59	9	59	128	170	184	170	128	59
95	5	46	109	149	162	149	109	46	5	46	109	149	162	149	109	46
100	3	36	92	130	143	130	92	36	3	36	92	130	143	130	92	36
105	2	29	77	111	123	111	77	29	2	29	77	111	123	111	77	29
110	1	24	64	95	105	95	64	24	1	24	64	95	105	95	64	24
115	1	19	54	80	90	80	54	19	1	19	54	80	90	80	54	19
120	0	15	46	67	75	67	46	15	0	15	46	67	75	67	46	15
125	0	12	39	58	65	58	39	12	0	12	39	58	65	58	39	12
130	0	9	32	50	56	50	32	9	0	9	32	50	56	50	32	9
135	0	6	26	42	47	42	26	6	0	6	26	42	47	42	26	6
140	0	4	19	33	39	33	19	4	0	4	19	33	39	33	19	4
145	0	2	13	25	29	25	13	2	0	2	13	25	29	25	13	2
150	0	1	8	17	21	17	8	1	0	1	8	17	21	17	8	1
155	0	0	5	10	12	10	5	0	0	0	5	10	12	10	5	0
160	0	0	2	5	6	5	2	0	0	0	2	5	6	5	2	0
165	0	0	0	2	2	2	0	0	0	0	0	2	2	2	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)

ANGLES	0-Deg	45-Deg	90-Deg
0	8988	8988	8988
45	7199	5958	5962
55	6455	5399	5578
65	5649	4903	5278
75	4446	4612	4939
85	3216	4410	4711

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	2321	2321	2321	2321	2221	2221	2221	2221	2061	2061	2061	1901	1901	1901	1781	1781	1781	1701
1	2061	1941	1821	1741	1961	1861	1761	1681	1721	1641	1581	1581	1521	1461	1461	1421	1381	1321
2	1841	1661	1501	1381	1761	1601	1461	1341	1481	1361	1261	1361	1261	1181	1261	1181	1121	1061
3	1681	1441	1261	1121	1601	1381	1221	1081	1281	1141	1041	1181	1081	981	1101	1001	921	861
4	1521	1261	1081	941	1461	1221	1041	921	1141	981	861	1041	921	821	981	861	780	720
5	1401	1121	941	800	1341	1081	901	780	1001	861	740	941	800	700	881	760	680	620
6	1281	1001	821	680	1221	981	800	680	901	760	640	841	720	620	780	680	580	540
7	1201	921	740	600	1141	881	720	600	821	680	560	760	640	540	720	600	520	480
8	1101	821	660	540	1061	800	640	520	760	600	500	700	580	480	660	540	460	420
9	1041	760	600	480	981	740	580	460	700	540	460	640	520	440	600	500	420	380
10	961	700	540	440	921	680	520	420	640	500	400	600	480	400	560	460	380	340

