



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
SIE-PSW-4-D7-30-80-FWD.5-W
(White Housing – Direct – ½” Dropped Lens)

Test Number

IES-P00105

Test Date

2017-06-20

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Direct w/ 1/2" Dropped Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface Mounted
Luminous Length:	48.00 in
Luminous Width:	2.31 in
Luminous Height:	0.50 in

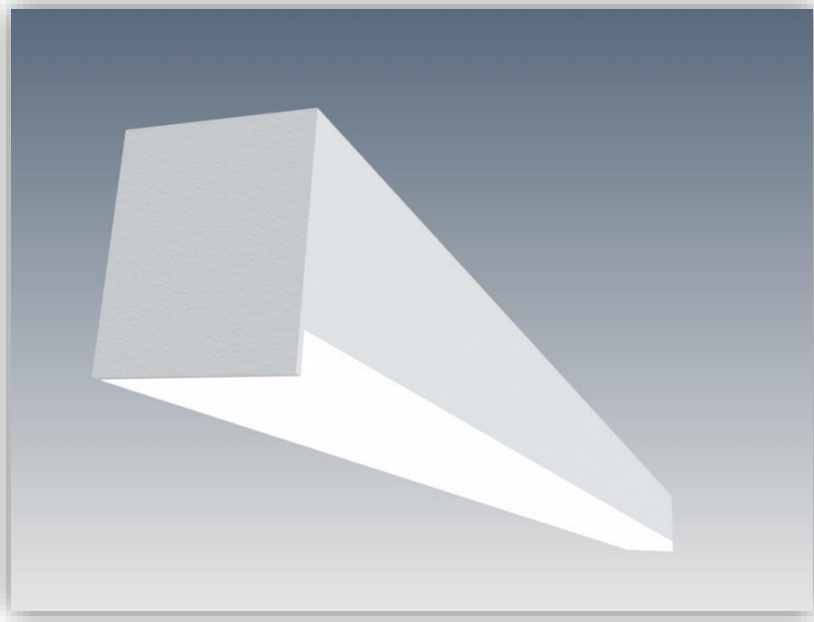


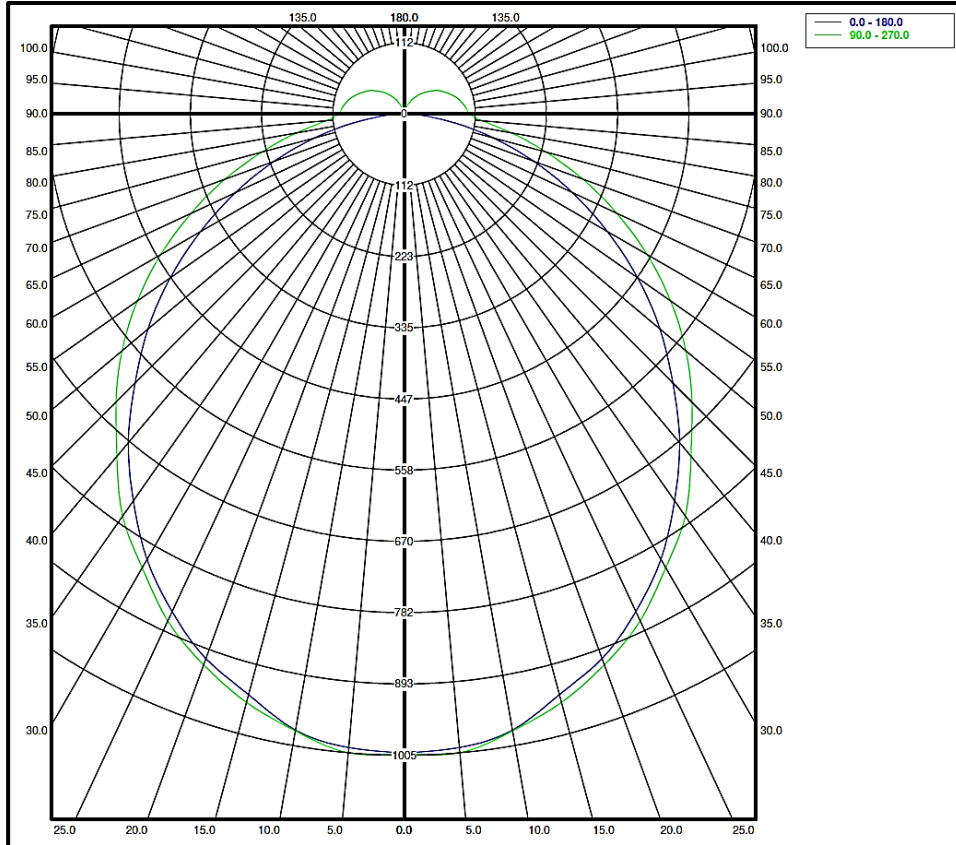
Image may differ slightly from actual unit

Summary of Results

System Power:	37.2W
Total Luminaire Output:	3004 Lumens
Luminaire Efficacy:	81 lm/W
Max Candela:	1005.10 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	94.77	3.2%	90-100	60.2	2.0%
10-20	267.87	8.9%	100-110	52.26	1.7%
20-30	399.62	13.3%	110-120	42.43	1.4%
30-40	471.91	15.7%	120-130	31.43	1.0%
40-50	478.96	15.9%	130-140	20.61	0.7%
50-60	430.6	14.3%	140-150	11.27	0.4%
60-70	333.1	11.1%	150-160	4.5	0.1%
70-80	206.83	6.9%	160-170	0.87	0.0%
80-90	96.28	3.2%	170-180	0.01	0.0%
0-90	2779.94	92.6%	0-180	3003.52	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	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001
5	997	1003	997	1004	1005	1004	997	1003	997	1003	997	1004	1005	1004	997	1003
10	981	977	979	978	982	978	979	977	981	977	979	978	982	978	979	977
15	942	946	952	950	955	950	952	946	942	946	952	950	955	950	952	946
20	908	911	914	915	919	915	914	911	908	911	914	915	919	915	914	911
25	861	864	868	870	877	870	868	864	861	864	868	870	877	870	868	864
30	806	809	814	820	821	820	814	809	806	809	814	820	821	820	814	809
35	740	748	756	763	769	763	756	748	740	748	756	763	769	763	756	748
40	673	677	688	698	700	698	688	677	673	677	688	698	700	698	688	677
45	597	606	621	635	639	635	621	606	597	606	621	635	639	635	621	606
50	524	535	554	570	577	570	554	535	524	535	554	570	577	570	554	535
55	447	460	484	502	510	502	484	460	447	460	484	502	510	502	484	460
60	368	384	414	433	441	433	414	384	368	384	414	433	441	433	414	384
65	292	311	341	362	369	362	341	311	292	311	341	362	369	362	341	311
70	217	238	270	291	299	291	270	238	217	238	270	291	299	291	270	238
75	145	167	198	222	231	222	198	167	145	167	198	222	231	222	198	167
80	81	103	135	161	172	161	135	103	81	103	135	161	172	161	135	103
85	30	51	85	113	123	113	85	51	30	51	85	113	123	113	85	51
90	6	28	63	92	103	92	63	28	6	28	63	92	103	92	63	28
95	3	24	58	86	98	86	58	24	3	24	58	86	98	86	58	24
100	2	23	55	83	94	83	55	23	2	23	55	83	94	83	55	23
105	2	22	53	78	89	78	53	22	2	22	53	78	89	78	53	22
110	2	20	50	73	83	73	50	20	2	20	50	73	83	73	50	20
115	1	18	46	68	77	68	46	18	1	18	46	68	77	68	46	18
120	1	16	42	62	70	62	42	16	1	16	42	62	70	62	42	16
125	1	14	38	56	64	56	38	14	1	14	38	56	64	56	38	14
130	0	12	33	49	56	49	33	12	0	12	33	49	56	49	33	12
135	0	10	29	44	49	44	29	10	0	10	29	44	49	44	29	10
140	0	7	24	36	42	36	24	7	0	7	24	36	42	36	24	7
145	0	5	19	30	34	30	19	5	0	5	19	30	34	30	19	5
150	0	3	14	23	27	23	14	3	0	3	14	23	27	23	14	3
155	0	2	9	17	19	17	9	2	0	2	9	17	19	17	9	2
160	0	1	6	11	13	11	6	1	0	1	6	11	13	11	6	1
165	0	0	2	5	6	5	2	0	0	0	2	5	6	5	2	0
170	0	0	0	1	1	1	0	0	0	0	0	1	1	1	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	13998	13998	13998
45	11662	10575	10370
55	10734	9594	9494
65	9435	8375	8323
75	7546	6685	6893
85	4277	4814	5670

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	3514	3514	3514	3514	3424	3424	3424	3424	3214	3214	3214	3034	3034	3034	2853	2853	2853	2793
1	3184	3034	2913	2793	3094	2943	2823	2733	2793	2703	2613	2643	2553	2493	2493	2433	2373	2283
2	2913	2643	2433	2253	2793	2583	2373	2223	2433	2283	2132	2313	2163	2042	2193	2072	1982	1892
3	2643	2313	2072	1892	2553	2253	2042	1862	2132	1952	1802	2042	1862	1742	1922	1802	1682	1592
4	2433	2072	1802	1592	2343	2012	1772	1562	1892	1682	1532	1802	1622	1472	1712	1562	1442	1352
5	2223	1832	1562	1382	2163	1802	1532	1352	1712	1472	1322	1622	1442	1292	1532	1382	1261	1171
6	2042	1652	1382	1201	1982	1622	1352	1171	1532	1322	1141	1472	1261	1141	1412	1231	1111	1021
7	1922	1502	1231	1051	1832	1472	1231	1051	1412	1171	1021	1352	1141	991	1292	1111	991	901
8	1772	1382	1111	931	1712	1352	1111	931	1292	1081	901	1231	1021	901	1171	991	871	811
9	1652	1261	1021	841	1592	1231	991	841	1171	961	811	1141	931	811	1081	931	781	721
10	1562	1171	931	781	1502	1141	901	751	1081	901	751	1051	871	721	1021	841	721	661

