



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-D3-30-80-FWD.5-W
(White Housing – Direct – ½” Dropped Lens)

Test Number

IES-P00103

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

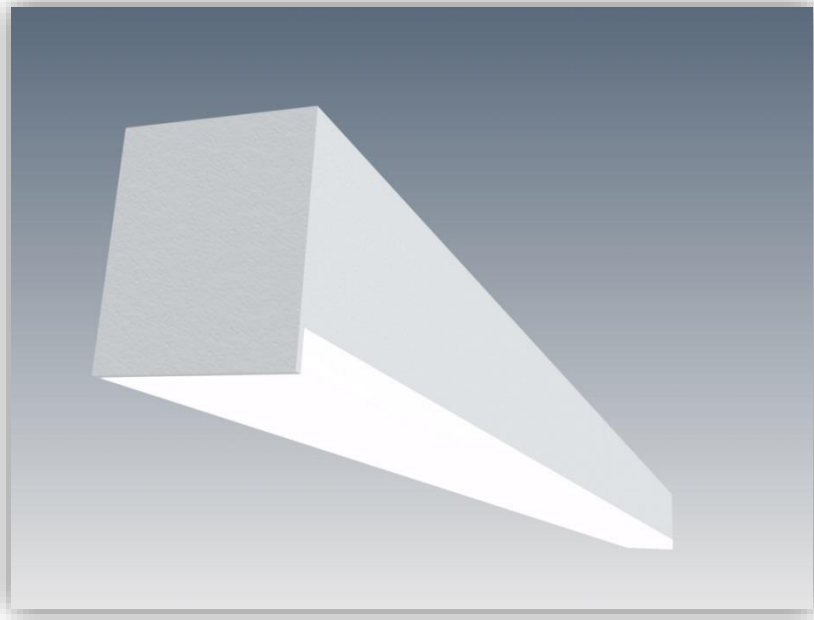


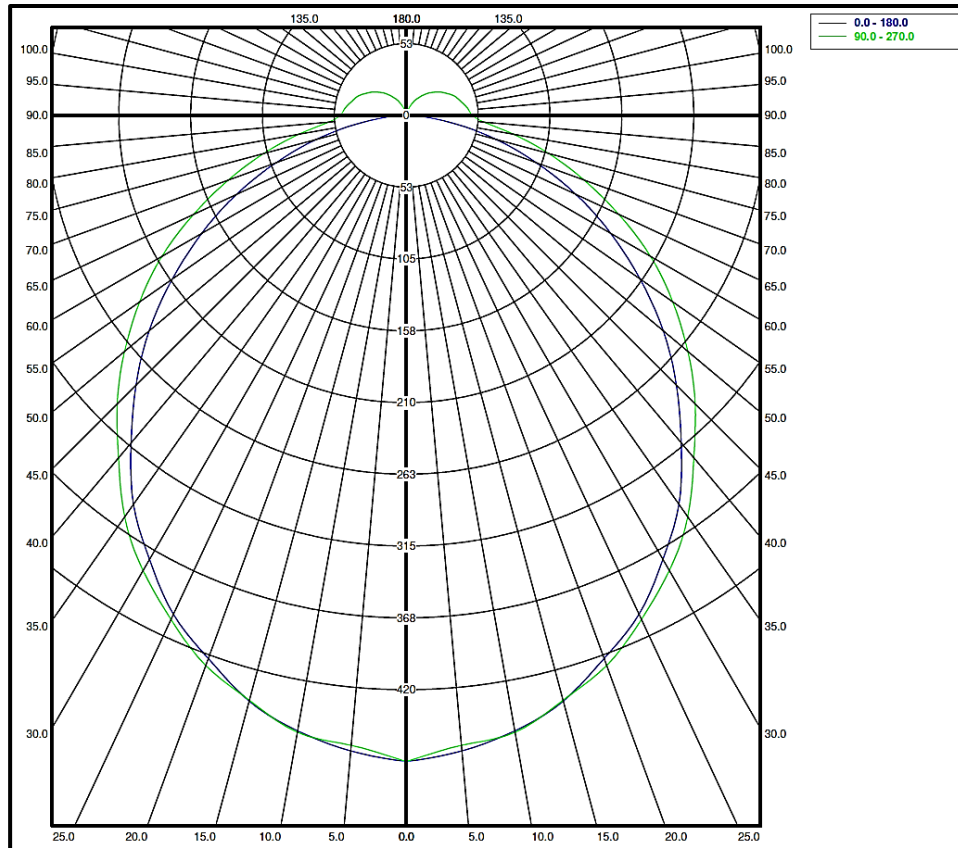
Image may differ slightly from actual unit

Summary of Results

System Power:	17.6W
Total Luminaire Output:	1402 Lumens
Luminaire Efficacy:	80 lm/W
Max Candela:	472.60 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	44.3	3.2%	90-100	28.06	2.0%
10-20	125.13	8.9%	100-110	24.33	1.7%
20-30	186.64	13.3%	110-120	19.8	1.4%
30-40	220.22	15.7%	120-130	14.67	1.0%
40-50	223.7	16.0%	130-140	9.64	0.7%
50-60	201.18	14.3%	140-150	5.27	0.4%
60-70	155.38	11.1%	150-160	2.12	0.2%
70-80	96.36	6.9%	160-170	0.4	0.0%
80-90	44.78	3.2%	170-180	0.01	0.0%
0-90	1297.69	92.6%	0-180	1401.99	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	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473
5	467	471	465	468	463	468	465	471	467	471	465	468	463	468	465	471
10	457	456	458	457	458	457	458	456	457	456	458	457	458	457	458	456
15	444	443	444	443	443	443	444	443	444	443	444	443	443	443	444	443
20	423	426	428	430	428	430	428	426	423	426	428	430	428	430	428	426
25	403	404	404	407	407	407	404	404	403	404	404	407	407	407	404	404
30	375	376	382	384	385	384	382	376	375	376	382	384	385	384	382	376
35	347	348	352	356	359	356	352	348	347	348	352	356	359	356	352	348
40	313	316	323	326	327	326	323	316	313	316	323	326	327	326	323	316
45	279	283	290	296	299	296	290	283	279	283	290	296	299	296	290	283
50	245	250	259	266	269	266	259	250	245	250	259	266	269	266	259	250
55	209	215	226	236	238	236	226	215	209	215	226	236	238	236	226	215
60	173	180	193	202	206	202	193	180	173	180	193	202	206	202	193	180
65	137	146	159	168	171	168	159	146	137	146	159	168	171	168	159	146
70	101	111	125	135	139	135	125	111	101	111	125	135	139	135	125	111
75	69	78	92	104	108	104	92	78	69	78	92	104	108	104	92	78
80	38	48	63	75	80	75	63	48	38	48	63	75	80	75	63	48
85	14	24	39	53	57	53	39	24	14	24	39	53	57	53	39	24
90	3	13	29	43	48	43	29	13	3	13	29	43	48	43	29	13
95	1	11	27	40	46	40	27	11	1	11	27	40	46	40	27	11
100	1	11	26	38	43	38	26	11	1	11	26	38	43	38	26	11
105	1	10	25	37	41	37	25	10	1	10	25	37	41	37	25	10
110	1	9	23	34	39	34	23	9	1	9	23	34	39	34	23	9
115	1	8	21	32	36	32	21	8	1	8	21	32	36	32	21	8
120	0	7	20	29	33	29	20	7	0	7	20	29	33	29	20	7
125	0	6	18	26	30	26	18	6	0	6	18	26	30	26	18	6
130	0	6	15	23	26	23	15	6	0	6	15	23	26	23	15	6
135	0	5	13	21	23	21	13	5	0	5	13	21	23	21	13	5
140	0	4	11	17	19	17	11	4	0	4	11	17	19	17	11	4
145	0	2	9	14	16	14	9	2	0	2	9	14	16	14	9	2
150	0	2	7	11	13	11	7	2	0	2	7	11	13	11	7	2
155	0	1	5	8	9	8	5	1	0	1	5	8	9	8	5	1
160	0	0	3	5	6	5	3	0	0	0	3	5	6	5	3	0
165	0	0	1	2	3	2	1	0	0	0	1	2	3	2	1	0
170	0	0	0	0	1	0	0	0	0	0	0	0	1	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	6606	6606	6606
45	5460	4934	4849
55	5006	4472	4424
65	4433	3911	3870
75	3562	3115	3220
85	1999	2230	2638

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	1640	1640	1640	1640	1598	1598	1598	1598	1500	1500	1500	1416	1416	1416	1332	1332	1332	1304
1	1486	1430	1360	1304	1444	1374	1318	1276	1304	1262	1220	1234	1192	1164	1164	1136	1108	1066
2	1360	1234	1136	1066	1304	1206	1108	1037	1136	1066	995	1080	1009	953	1023	967	925	883
3	1234	1094	967	883	1192	1051	953	869	995	911	841	953	869	813	897	841	785	743
4	1136	967	841	743	1094	939	827	729	883	785	715	841	757	687	799	729	673	631
5	1037	855	729	645	1009	841	715	631	799	701	617	757	673	603	715	645	589	547
6	967	771	645	561	925	757	645	547	715	617	533	687	589	533	659	575	519	477
7	897	701	575	491	855	687	575	491	659	547	477	631	533	463	603	519	463	421
8	827	645	519	435	799	631	519	435	603	505	421	575	491	421	547	463	407	379
9	771	589	477	393	743	575	463	393	547	449	379	533	435	379	505	435	365	350
10	729	547	435	365	701	533	421	350	505	421	350	491	407	336	477	393	336	308

