

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
KAY-L-4'-D3-30K-80-OPL-W
(White Housing – Direct – Opal Lens)

Test Number

IES-P00080

Test Date

2017-04-12

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Direct w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling
Luminous Length:	48.13 in
Luminous Width:	2.31 in
Luminous Height:	0.00 in



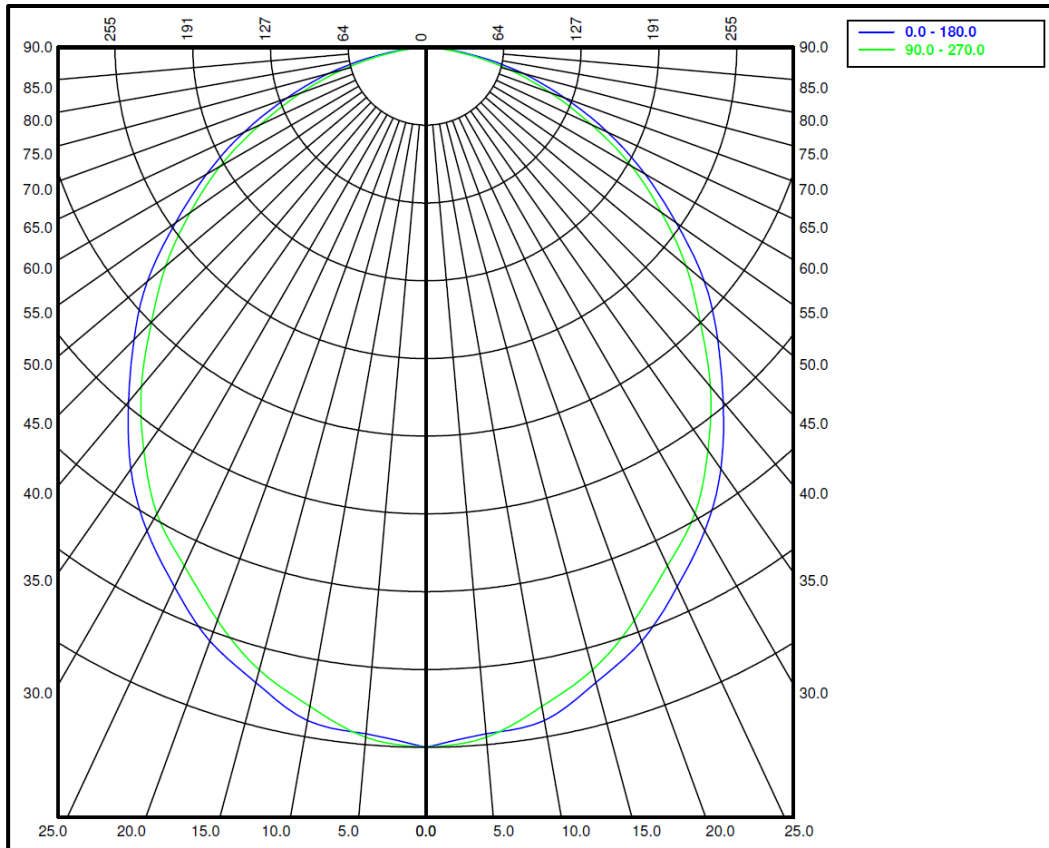
Image may differ slightly from actual unit

Summary of Results

System Power:	20.9W
Total Luminaire Output:	1410 Lumens
Luminaire Efficacy:	68 lm/W
Max Candela:	573.55 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	53.73	3.8%	90-100	0	0.0%
10-20	150.05	10.6%	100-110	0	0.0%
20-30	221.1	15.7%	110-120	0	0.0%
30-40	256.41	18.2%	120-130	0	0.0%
40-50	253.35	18.0%	130-140	0	0.0%
50-60	218.05	15.5%	140-150	0	0.0%
60-70	156.62	11.1%	150-160	0	0.0%
70-80	81.6	5.8%	160-170	0	0.0%
80-90	18.65	1.3%	170-180	0	0.0%
0-90	1409.56	100.0%	0-180	1409.56	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	574	574	574	574	574	574	574	574	574	574	574	574	574	574	574	574
5	565	572	565	569	568	569	565	572	565	572	565	569	568	569	565	572
10	560	551	552	552	548	552	552	551	560	551	552	552	548	552	552	551
15	539	535	531	527	528	527	531	535	539	535	531	527	528	527	531	535
20	518	514	508	505	500	505	508	514	518	514	508	505	500	505	508	514
25	488	487	479	476	469	476	479	487	488	487	479	476	469	476	479	487
30	458	452	446	442	441	442	446	452	458	452	446	442	441	442	446	452
35	422	417	410	404	403	404	410	417	422	417	410	404	403	404	410	417
40	379	374	367	363	363	363	367	374	379	374	367	363	363	363	367	374
45	338	333	328	324	318	324	328	333	338	333	328	324	318	324	328	333
50	298	291	287	281	279	281	287	291	298	291	287	281	279	281	287	291
55	251	249	244	237	236	237	244	249	251	249	244	237	236	237	244	249
60	208	206	202	196	195	196	202	206	208	206	202	196	195	196	202	206
65	165	164	158	154	150	154	158	164	165	164	158	154	150	154	158	164
70	122	120	116	111	109	111	116	120	122	120	116	111	109	111	116	120
75	82	81	77	73	71	73	77	81	82	81	77	73	71	73	77	81
80	44	44	41	37	36	37	41	44	44	44	41	37	36	37	41	44
85	15	15	13	11	11	11	13	15	15	15	13	11	11	11	13	15
90	3	3	2	2	2	2	2	3	3	3	2	2	2	2	2	3

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	7996	7996	7996
45	6667	6454	6267
55	6090	5923	5729
65	5427	5198	4950
75	4427	4126	3817
85	2435	2047	1689

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	1677	1677	1677	1677	1635	1635	1635	1635	1565	1565	1565	1494	1494	1494	1438	1438	1438	1410
1	1536	1480	1424	1367	1508	1438	1395	1339	1381	1339	1297	1325	1297	1269	1283	1255	1226	1198
2	1410	1297	1198	1128	1367	1269	1184	1114	1212	1142	1085	1170	1114	1057	1128	1085	1043	1001
3	1283	1142	1029	944	1255	1114	1015	930	1085	987	916	1043	959	902	1001	944	888	860
4	1184	1015	902	803	1142	1001	888	803	959	860	789	930	846	775	902	832	761	733
5	1085	916	789	691	1057	902	775	691	860	761	691	832	747	677	818	733	677	634
6	1001	818	705	606	973	803	691	606	789	677	606	761	662	592	733	662	592	564
7	930	747	620	536	916	733	620	536	719	606	536	691	606	536	677	592	522	507
8	874	691	564	479	846	677	564	479	648	550	479	634	550	479	620	536	479	451
9	818	634	522	437	789	620	507	437	606	507	437	592	493	437	578	493	437	409
10	761	578	465	395	747	578	465	395	564	465	395	550	451	395	536	451	395	366

