

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
AND-(PS)-4-D5-30-80-OW-W
(White Housing – Semi-Direct – Opal Lens)

Test Number

IES-P00093

Test Date

2017-06-09

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 Housing, Semi-direct w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling & Surface Mount
Luminous Length:	47.13 in
Luminous Width:	1.63 in
Luminous Height:	0.95 in

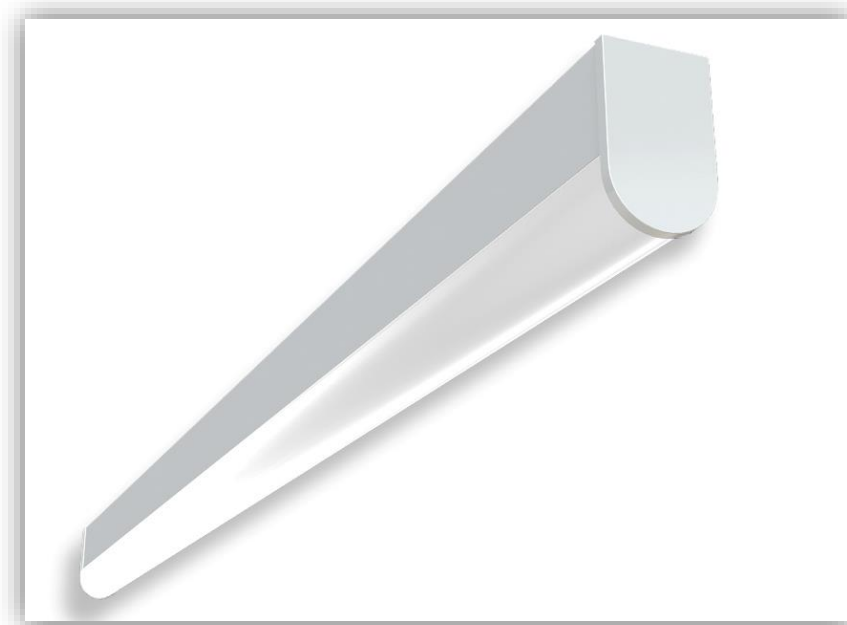


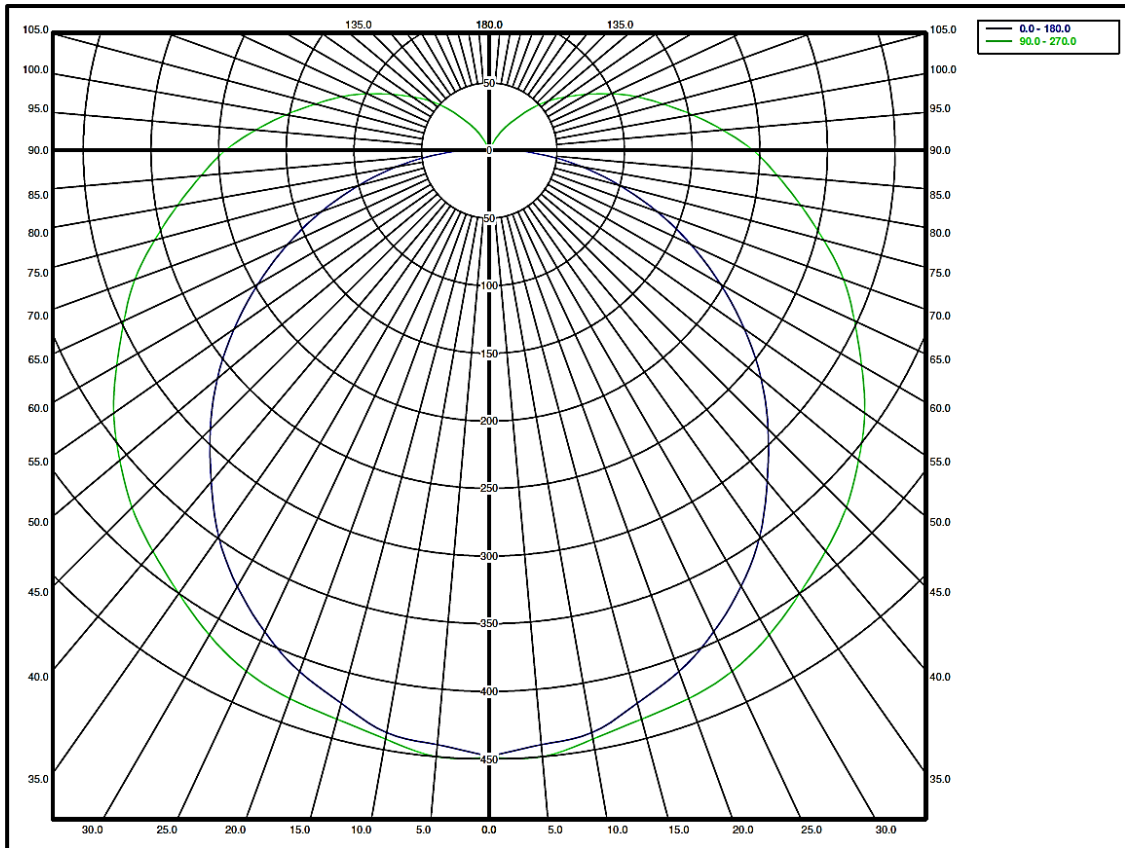
Image may differ slightly from actual unit

Summary of Results

System Power:	18.2W
Total Luminaire Output:	2000 Lumens
Luminaire Efficacy:	110 lm/W
Max Candela:	449.67 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	42.25	2.1%	90-100	115.83	5.8%
10-20	121.91	6.1%	100-110	81.39	4.1%
20-30	188.46	9.4%	110-120	53.72	2.7%
30-40	234.92	11.7%	120-130	31.83	1.6%
40-50	257.73	12.9%	130-140	15.83	0.8%
50-60	257.3	12.9%	140-150	5.71	0.3%
60-70	235.71	11.8%	150-160	0.9	0.0%
70-80	199.59	10.0%	160-170	0.01	0.0%
80-90	156.56	7.8%	170-180	0	0.0%
0-90	1694.43	84.7%	0-180	1999.65	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	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448
5	441	438	445	446	450	446	445	438	441	438	445	446	450	446	445	438
10	437	436	440	441	442	441	440	436	437	436	440	441	442	441	440	436
15	423	429	432	436	435	436	432	429	423	429	432	436	435	436	432	429
20	410	413	423	428	431	428	423	413	410	413	423	428	431	428	423	413
25	393	399	408	419	425	419	408	399	393	399	408	419	425	419	408	399
30	372	379	393	408	414	408	393	379	372	379	393	408	414	408	393	379
35	348	357	377	394	400	394	377	357	348	357	377	394	400	394	377	357
40	319	331	356	377	387	377	356	331	319	331	356	377	387	377	356	331
45	291	305	336	361	373	361	336	305	291	305	336	361	373	361	336	305
50	262	279	312	344	356	344	312	279	262	279	312	344	356	344	312	279
55	230	251	290	325	339	325	290	251	230	251	290	325	339	325	290	251
60	197	221	268	304	318	304	268	221	197	221	268	304	318	304	268	221
65	165	193	244	282	298	282	244	193	165	193	244	282	298	282	244	193
70	132	165	220	262	279	262	220	165	132	165	220	262	279	262	220	165
75	100	139	198	240	256	240	198	139	100	139	198	240	256	240	198	139
80	70	113	175	219	234	219	175	113	70	113	175	219	234	219	175	113
85	42	91	154	198	214	198	154	91	42	91	154	198	214	198	154	91
90	20	72	136	179	195	179	136	72	20	72	136	179	195	179	136	72
95	9	56	117	159	173	159	117	56	9	56	117	159	173	159	117	56
100	4	44	99	137	152	137	99	44	4	44	99	137	152	137	99	44
105	2	34	85	121	133	121	85	34	2	34	85	121	133	121	85	34
110	1	25	70	104	116	104	70	25	1	25	70	104	116	104	70	25
115	0	19	59	89	99	89	59	19	0	19	59	89	99	89	59	19
120	0	13	47	73	83	73	47	13	0	13	47	73	83	73	47	13
125	0	8	37	61	69	61	37	8	0	8	37	61	69	61	37	8
130	0	5	28	49	57	49	28	5	0	5	28	49	57	49	28	5
135	0	2	19	36	44	36	19	2	0	2	19	36	44	36	19	2
140	0	1	13	26	31	26	13	1	0	1	13	26	31	26	13	1
145	0	0	7	18	21	18	7	0	0	0	7	18	21	18	7	0
150	0	0	2	10	13	10	2	0	0	0	2	10	13	10	2	0
155	0	0	0	3	5	3	0	0	0	0	0	3	5	3	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	9037	9037	9037
45	8140	6721	6720
55	7864	6339	6495
65	7524	6068	6310
75	7241	5941	6275
85	7931	6075	6452

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	2300	2300	2300	2300	2220	2220	2220	2220	2060	2060	2060	1900	1900	1900	1760	1760	1760	1700
1	2040	1920	1800	1720	1960	1840	1740	1660	1700	1620	1540	1560	1500	1440	1440	1400	1340	1280
2	1840	1640	1480	1340	1740	1580	1420	1300	1460	1340	1220	1340	1240	1160	1240	1160	1080	1020
3	1660	1420	1240	1100	1580	1360	1200	1060	1260	1120	1000	1160	1040	940	1080	980	900	840
4	1500	1240	1060	900	1440	1200	1020	880	1100	960	840	1020	900	800	940	840	760	700
5	1380	1100	920	780	1320	1060	880	760	980	840	720	920	780	680	840	740	640	600
6	1280	980	800	660	1220	960	780	660	880	740	620	820	700	600	760	660	560	520
7	1180	900	700	580	1120	860	700	560	800	660	540	740	620	520	700	580	500	440
8	1100	820	640	520	1040	780	620	500	740	580	480	680	560	460	640	520	440	400
9	1020	740	580	460	980	720	560	440	680	540	440	620	500	420	580	480	400	360
10	960	680	520	420	920	660	500	400	620	480	380	580	460	380	540	440	360	320

