

## **Indoor Distribution Test Report**

### **Picasso Lighting Industries, LLC**

46 Sellers St.  
Kearny, NJ 07032

#### **Photopia Photometric Analysis & Optical Design**

**Catalog Number**  
**NUB-RS-4x4-D6-30-80-NM-W**  
(White Housing – Direct – Newmat Material Lenses)

Test Number

**IES-P00151**

Test Date

2017-11-16

The results contained in this report pertain only to the tested sample.  
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<b>Luminaire Description:</b>	White, Sheet Metal Housing, Extruded Aluminum Lens Frame, Direct w/ Newmat Lenses
<b>Lamp:</b>	LED (3000K, 80+ CRI)
<b>Installation:</b>	Surface or Recess Mounted
<b>Luminous Length:</b>	45.88 in
<b>Luminous Width:</b>	45.88 in
<b>Luminous Height:</b>	0.00 in

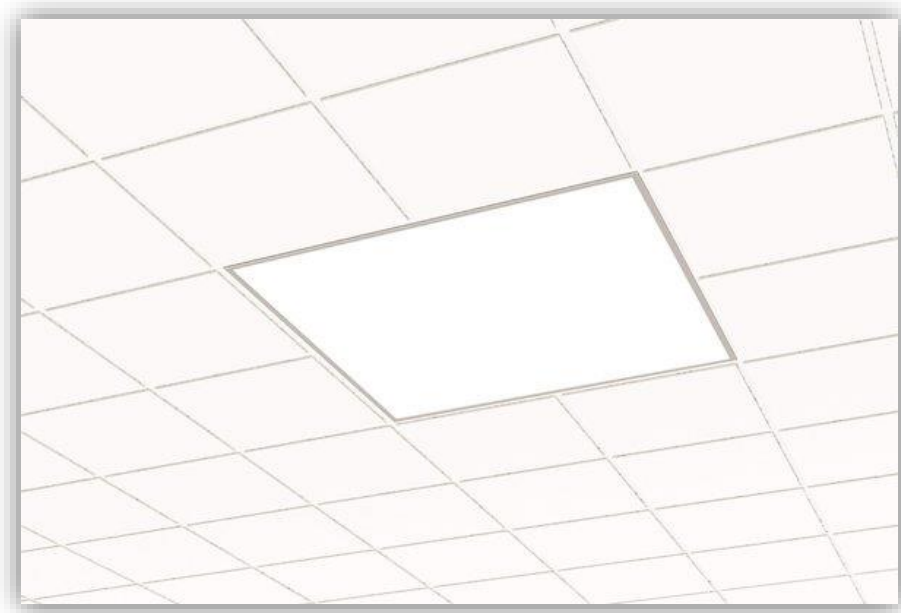


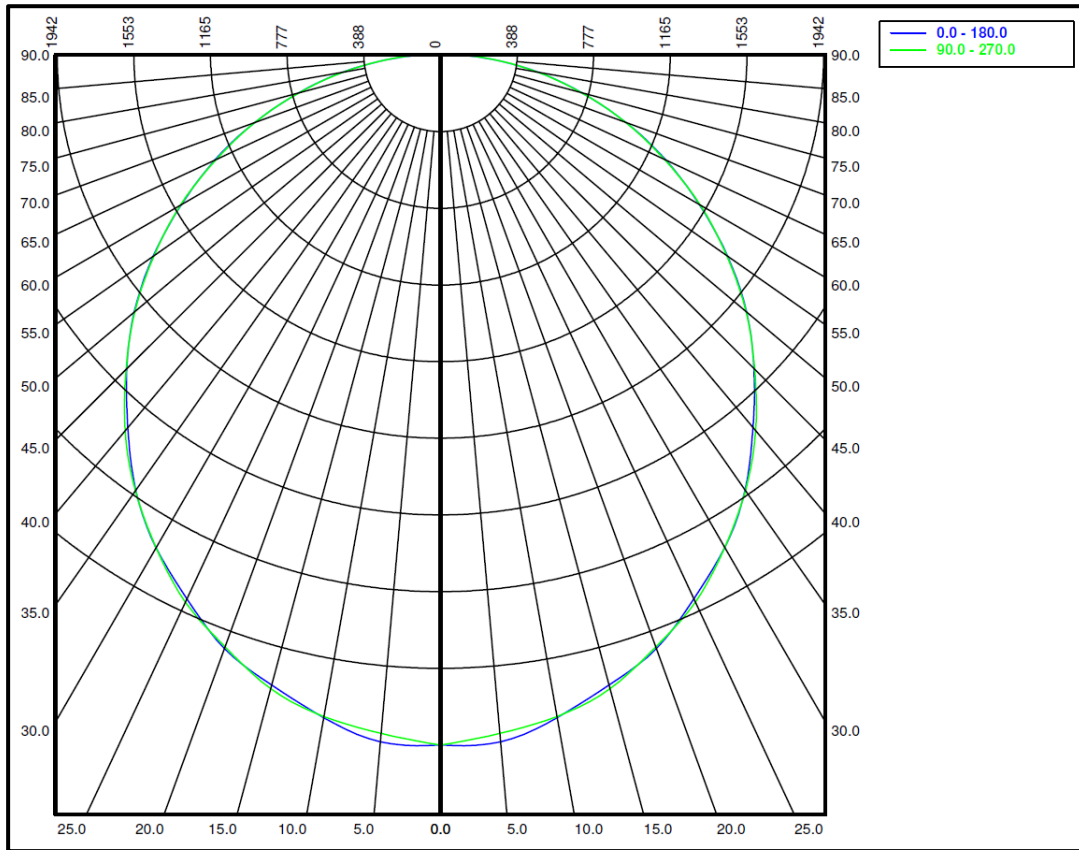
Image may differ slightly from actual unit

#### **Summary of Results**

<b>System Power:</b>	111.8W
<b>Total Luminaire Output:</b>	10011 Lumens
<b>Luminaire Efficacy:</b>	90 lm/W
<b>Max Candela:</b>	3494.71 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	328.86	3.3%	90-100	0	0.0%
10-20	933.29	9.3%	100-110	0	0.0%
20-30	1403.43	14.0%	110-120	0	0.0%
30-40	1681.38	16.8%	120-130	0	0.0%
40-50	1738.94	17.4%	130-140	0	0.0%
50-60	1585.22	15.8%	140-150	0	0.0%
60-70	1248.58	12.5%	150-160	0	0.0%
70-80	788.24	7.9%	160-170	0	0.0%
80-90	302.83	3.0%	170-180	0	0.0%
0-90	10010.77	100.0%	0-180	10010.77	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	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495	3495
5	3492	3461	3464	3468	3449	3468	3464	3461	3492	3461	3464	3468	3449	3468	3464	3461
10	3408	3395	3401	3403	3402	3403	3401	3395	3408	3395	3401	3403	3402	3403	3401	3395
15	3303	3304	3303	3308	3322	3308	3303	3304	3303	3304	3303	3308	3322	3308	3303	3304
20	3199	3189	3191	3182	3191	3182	3191	3189	3199	3189	3191	3182	3191	3182	3191	3189
25	3039	3047	3038	3046	3057	3046	3038	3047	3039	3047	3038	3046	3057	3046	3038	3047
30	2882	2879	2874	2881	2881	2881	2874	2879	2882	2879	2874	2881	2881	2881	2874	2879
35	2691	2689	2681	2687	2695	2687	2681	2689	2691	2689	2681	2687	2695	2687	2681	2689
40	2464	2476	2481	2479	2485	2479	2481	2476	2464	2476	2481	2479	2485	2479	2481	2476
45	2248	2250	2257	2251	2252	2251	2257	2250	2248	2250	2257	2251	2252	2251	2257	2250
50	2025	2019	2022	2016	2021	2016	2022	2019	2025	2019	2022	2016	2021	2016	2022	2019
55	1777	1773	1770	1770	1771	1770	1770	1773	1777	1773	1770	1770	1771	1770	1770	1773
60	1515	1518	1521	1520	1521	1520	1521	1518	1515	1518	1521	1520	1521	1520	1521	1518
65	1262	1265	1261	1260	1253	1260	1261	1265	1262	1265	1261	1260	1253	1260	1261	1265
70	1002	1002	1001	999	1000	999	1001	1002	1002	1002	1001	999	1000	999	1001	1002
75	742	743	745	744	741	744	745	743	742	743	745	744	741	744	745	743
80	502	500	497	498	496	498	497	500	502	500	497	498	496	498	497	500
85	263	265	262	266	270	266	262	265	263	265	262	266	270	266	262	265
90	84	84	83	83	83	83	83	84	84	84	83	83	83	83	83	84

### Average Luminance (cd/m<sup>2</sup>)

#### Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2573	2573	2573
45	2339	2349	2343
55	2279	2271	2271
65	2197	2195	2181
75	2108	2116	2106
85	2224	2212	2282

**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	1191	1191	1191	1191	1161	1161	1161	1161	1111	1111	1111	1061	1061	1061	1021	1021	1021	1001
1	1081	1031	9811	9410	1051	1011	9710	9310	9610	9310	9010	9310	9010	8709	8910	8709	8509	8209
2	9811	8910	8209	7608	9510	8809	8109	7508	8409	7808	7408	8109	7608	7208	7808	7408	7008	6807
3	8910	7808	7008	6307	8709	7708	6907	6307	7408	6707	6207	7108	6507	6006	6807	6407	5906	5706
4	8209	6907	6006	5306	7909	6807	6006	5306	6507	5806	5206	6307	5706	5206	6107	5506	5105	4905
5	7508	6207	5306	4605	7308	6107	5206	4605	5906	5105	4505	5706	5005	4505	5506	4905	4405	4205
6	6907	5606	4705	4004	6707	5506	4605	4004	5306	4505	3904	5105	4405	3904	5005	4405	3904	3704
7	6407	5005	4205	3504	6207	5005	4104	3504	4805	4004	3504	4705	4004	3504	4505	3904	3404	3203
8	6006	4605	3704	3203	5806	4505	3704	3103	4405	3704	3103	4305	3604	3103	4205	3504	3103	2903
9	5606	4205	3404	2803	5406	4205	3404	2803	4104	3304	2803	3904	3304	2803	3804	3203	2803	2603
10	5206	3904	3103	2603	5105	3804	3103	2603	3704	3003	2603	3704	3003	2503	3604	3003	2503	2302

