

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-4x4-D5-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00150

Test Date

2017-11-16

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

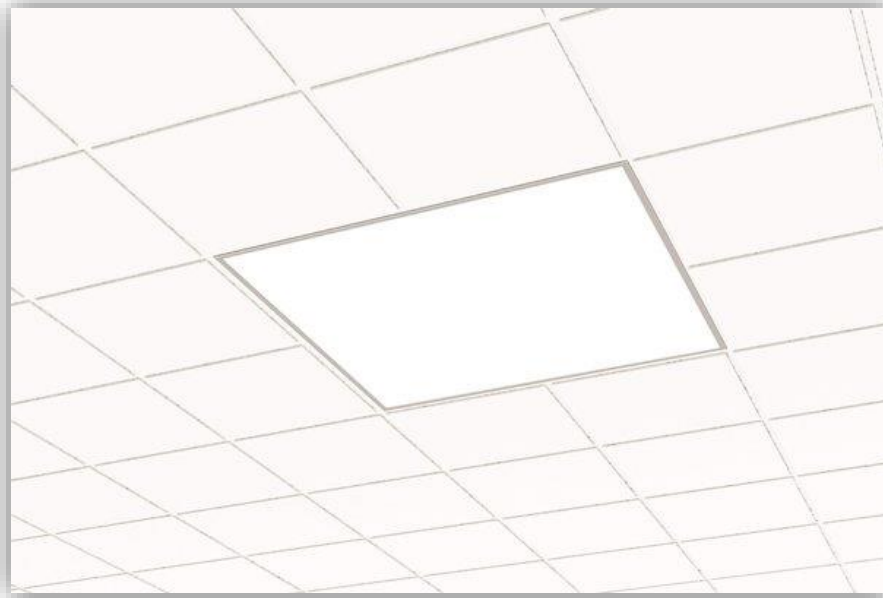


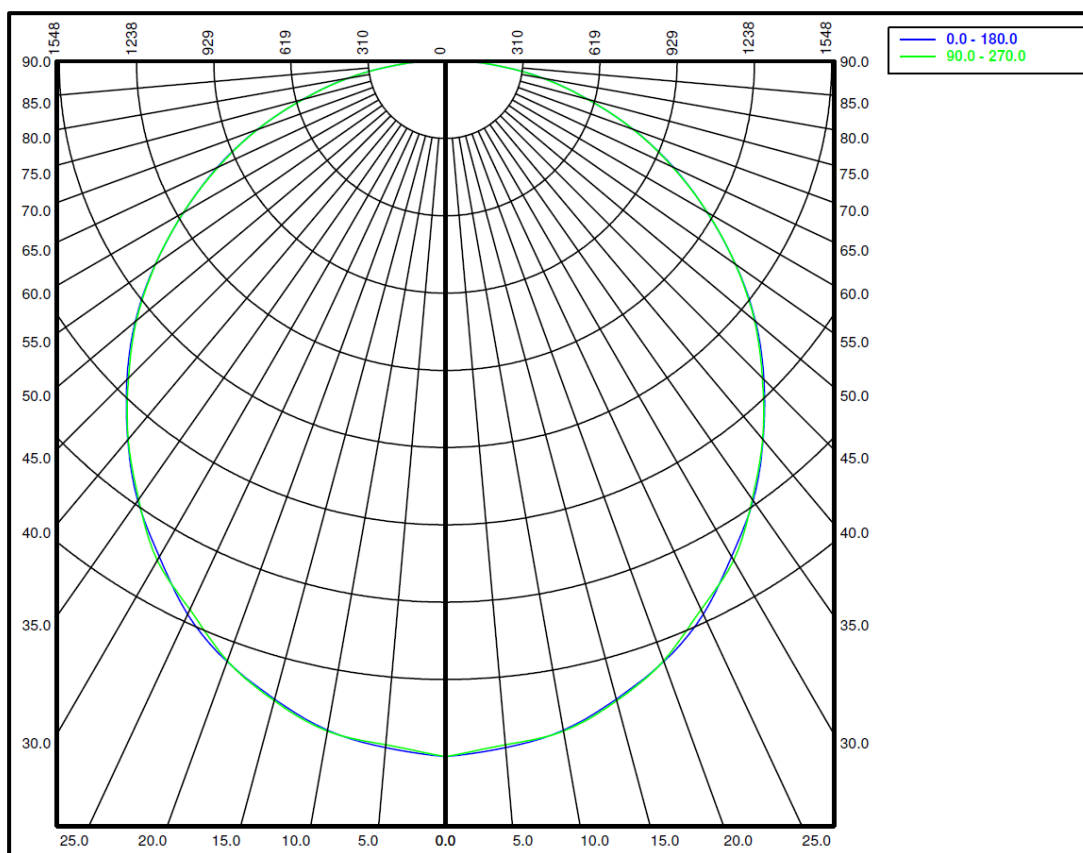
Image may differ slightly from actual unit

Summary of Results

System Power:	89.4W
Total Luminaire Output:	8006 Lumens
Luminaire Efficacy:	90 lm/W
Max Candela:	2785.98 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	262.72	3.3%	90-100	0	0.0%
10-20	746.63	9.3%	100-110	0	0.0%
20-30	1122.17	14.0%	110-120	0	0.0%
30-40	1343.49	16.8%	120-130	0	0.0%
40-50	1390.88	17.4%	130-140	0	0.0%
50-60	1268.53	15.8%	140-150	0	0.0%
60-70	998.25	12.5%	150-160	0	0.0%
70-80	630.72	7.9%	160-170	0	0.0%
80-90	242.48	3.0%	170-180	0	0.0%
0-90	8005.87	100.0%	0-180	8005.87	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	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786	2786
5	2760	2767	2771	2770	2749	2770	2771	2767	2760	2767	2771	2770	2749	2770	2771	2767
10	2721	2737	2722	2711	2725	2711	2722	2737	2721	2737	2722	2711	2725	2711	2722	2737
15	2646	2634	2645	2647	2652	2647	2645	2634	2646	2634	2645	2647	2652	2647	2645	2634
20	2559	2552	2551	2550	2556	2550	2551	2552	2559	2552	2551	2550	2556	2550	2551	2552
25	2445	2433	2435	2433	2424	2433	2435	2433	2445	2433	2435	2433	2424	2433	2435	2433
30	2292	2300	2302	2302	2310	2302	2302	2300	2292	2300	2302	2302	2310	2302	2302	2300
35	2149	2147	2144	2144	2143	2144	2144	2147	2149	2147	2144	2144	2143	2144	2144	2147
40	1980	1980	1987	1984	1978	1984	1987	1980	1980	1980	1987	1984	1978	1984	1987	1980
45	1805	1800	1800	1806	1796	1806	1800	1800	1805	1800	1800	1806	1796	1806	1800	1800
50	1623	1615	1610	1611	1617	1611	1610	1615	1623	1615	1610	1611	1617	1611	1610	1615
55	1420	1421	1416	1421	1418	1421	1416	1421	1420	1421	1416	1421	1418	1421	1416	1421
60	1211	1216	1220	1212	1214	1212	1220	1216	1211	1216	1220	1212	1214	1212	1220	1216
65	1011	1007	1008	1008	1006	1008	1008	1007	1011	1007	1008	1008	1006	1008	1008	1007
70	804	800	799	800	803	800	799	800	804	800	799	800	803	800	799	800
75	593	595	597	594	591	594	597	595	593	595	597	594	591	594	597	595
80	401	400	399	402	399	402	399	400	401	400	399	402	399	402	399	400
85	214	211	210	212	214	212	210	211	214	211	210	212	214	212	210	211
90	67	67	65	68	65	68	65	67	67	67	65	68	65	68	65	67

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2051	2051	2051
45	1878	1873	1869
55	1821	1817	1819
65	1760	1755	1751
75	1686	1696	1680
85	1806	1773	1809

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	9527	9527	9527	9527	9287	9287	9287	9287	8887	8887	8887	8486	8486	8486	8166	8166	8166	8006
1	8646	8246	7846	7526	8406	8086	7766	7445	7686	7445	7205	7445	7205	6965	7125	6965	6805	6565
2	7846	7125	6565	6084	7606	7045	6485	6004	6725	6245	5924	6485	6084	5764	6245	5924	5604	5444
3	7125	6245	5604	5044	6965	6165	5524	5044	5924	5364	4884	5684	5204	4804	5444	5044	4723	4563
4	6565	5524	4804	4243	6325	5444	4804	4243	5204	4643	4163	5044	4563	4163	4884	4403	4083	3923
5	6004	4964	4243	3683	5844	4884	4163	3683	4723	4083	3603	4563	4003	3603	4403	3923	3523	3362
6	5524	4483	3763	3202	5364	4403	3683	3202	4243	3603	3122	4083	3523	3122	4003	3523	3122	2962
7	5124	4003	3362	2802	4964	4003	3282	2802	3843	3202	2802	3763	3202	2802	3603	3122	2722	2562
8	4804	3683	2962	2482	4643	3603	2962	2482	3523	2962	2482	3443	2882	2482	3362	2802	2482	2322
9	4483	3362	2722	2242	4323	3362	2722	2242	3202	2642	2242	3122	2642	2242	3042	2562	2242	2082
10	4163	3122	2482	2082	4083	3042	2482	2082	2962	2402	2001	2962	2402	2001	2882	2402	2001	1841

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	77 fc	18 ft
8 ft	44 fc	23 ft
10 ft	28 fc	29 ft
12 ft	19 fc	35 ft
15 ft	12 fc	44 ft

