

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-6x6-D6-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00159

Test Date

2017-12-06

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:	69.88 in
Luminous Width:	69.88 in
Luminous Height:	0.00 in

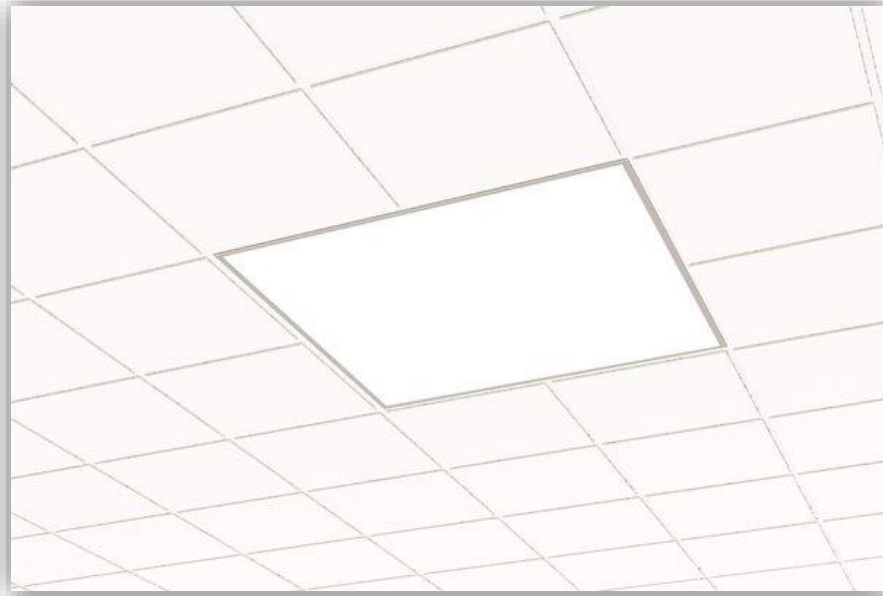


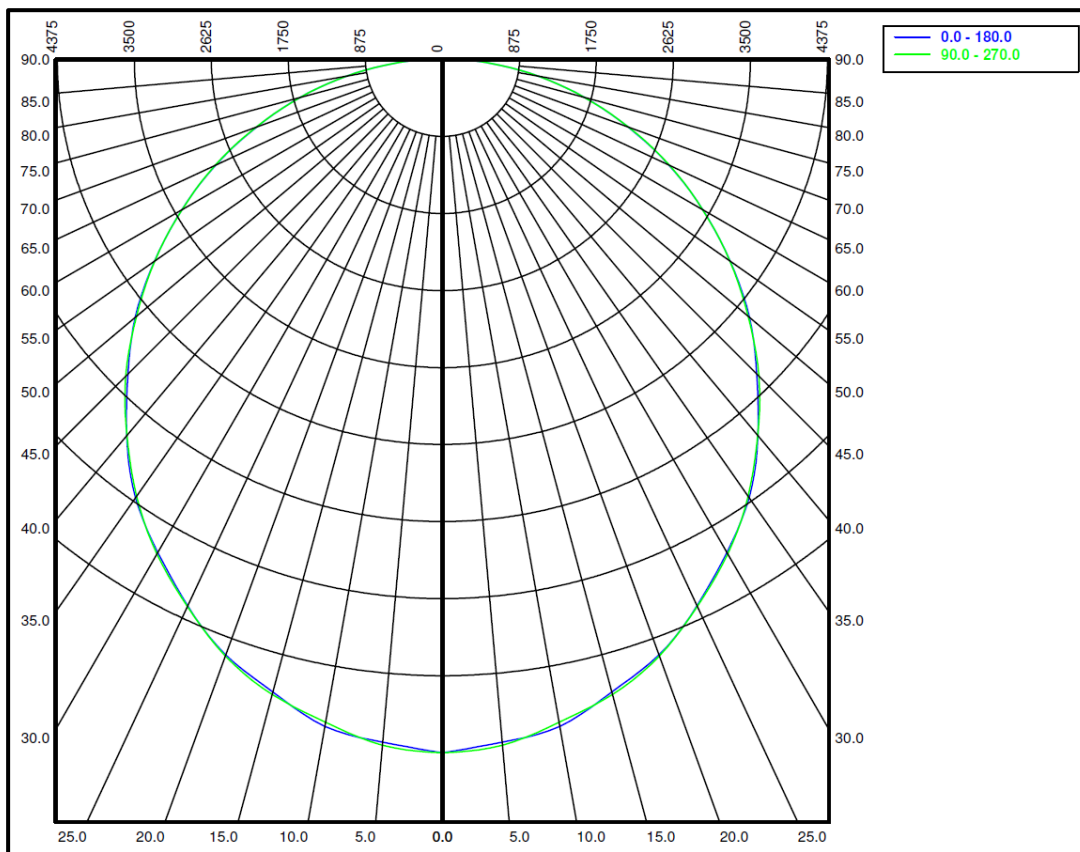
Image may differ slightly from actual unit

Summary of Results

System Power:	243.3W
Total Luminaire Output:	22533 Lumens
Luminaire Efficacy:	93 lm/W
Max Candela:	7874.69 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	741.16	3.3%	90-100	0	0.0%
10-20	2105.45	9.3%	100-110	0	0.0%
20-30	3164.3	14.0%	110-120	0	0.0%
30-40	3787.77	16.8%	120-130	0	0.0%
40-50	3915.53	17.4%	130-140	0	0.0%
50-60	3571.14	15.8%	140-150	0	0.0%
60-70	2811.99	12.5%	150-160	0	0.0%
70-80	1772.1	7.9%	160-170	0	0.0%
80-90	663.65	2.9%	170-180	0	0.0%
0-90	22533.09	100.0%	0-180	22533.09	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	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875	7875
5	7784	7826	7792	7834	7819	7834	7792	7826	7784	7826	7792	7834	7819	7834	7792	7826
10	7691	7661	7632	7688	7645	7688	7632	7661	7691	7661	7632	7688	7645	7688	7632	7661
15	7440	7461	7465	7469	7468	7469	7465	7461	7440	7461	7465	7469	7468	7469	7465	7461
20	7198	7182	7205	7203	7211	7203	7205	7182	7198	7182	7205	7203	7211	7203	7205	7182
25	6848	6868	6870	6873	6856	6873	6870	6868	6848	6868	6870	6873	6856	6873	6870	6868
30	6466	6488	6487	6478	6487	6478	6487	6488	6466	6488	6487	6478	6487	6478	6487	6488
35	6078	6055	6048	6055	6057	6055	6048	6055	6078	6055	6048	6055	6057	6055	6048	6055
40	5580	5582	5576	5583	5576	5583	5576	5582	5580	5582	5576	5583	5576	5583	5576	5582
45	5052	5058	5077	5081	5088	5081	5077	5058	5052	5058	5077	5081	5088	5081	5077	5058
50	4555	4541	4551	4548	4536	4548	4551	4541	4555	4541	4551	4548	4536	4548	4551	4541
55	3991	3995	3996	3994	3989	3994	3996	3995	3991	3995	3996	3994	3989	3994	3996	3995
60	3421	3424	3423	3425	3417	3425	3423	3424	3421	3424	3423	3425	3417	3425	3423	3424
65	2841	2838	2832	2845	2851	2845	2832	2838	2841	2838	2832	2845	2851	2845	2832	2838
70	2248	2244	2259	2253	2256	2253	2259	2244	2248	2244	2259	2253	2256	2253	2259	2244
75	1673	1674	1671	1674	1673	1674	1671	1674	1673	1674	1671	1674	1673	1674	1671	1674
80	1116	1113	1119	1115	1116	1115	1119	1113	1116	1113	1119	1115	1116	1115	1119	1113
85	574	575	573	576	576	576	573	575	574	575	573	576	576	576	573	575
90	171	172	171	169	175	169	171	172	171	172	171	169	175	169	171	172

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2500	2500	2500
45	2266	2277	2282
55	2207	2209	2206
65	2132	2126	2140
75	2050	2048	2050
85	2089	2085	2094

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	26814	26814	26814	26814	26138	26138	26138	26138	25012	25012	25012	23885	23885	23885	22984	22984	22984	22533
1	24336	23209	22308	21181	23660	22758	21857	20956	21632	20956	20280	20956	20280	19604	20054	19604	19153	18477
2	22082	20054	18477	17125	21406	19829	18252	17125	18928	17576	16674	18252	17125	16224	17576	16674	15773	15323
3	20054	17576	15773	14196	19604	17350	15548	14196	16674	15097	13971	15998	14647	13520	15323	14421	13295	12844
4	18477	15548	13520	11943	17801	15323	13520	11943	14647	13069	11717	14196	12844	11717	13745	12393	11492	11041
5	16900	13971	11943	10365	16449	13745	11717	10365	13295	11492	10140	12844	11267	10140	12393	11041	9915	9464
6	15548	12619	10591	9013	15097	12393	10365	9013	11943	10140	9013	11492	9915	8788	11267	9915	8788	8337
7	14421	11492	9464	7887	13971	11267	9239	7887	10816	9239	7887	10591	9013	7887	10140	8788	7661	7211
8	13520	10365	8337	7211	13069	10140	8337	6985	9915	8337	6985	9689	8112	6985	9464	7887	6985	6535
9	12619	9464	7661	6309	12168	9464	7661	6309	9239	7436	6309	8788	7436	6309	8563	7211	6309	5859
10	11717	8788	6985	5859	11492	8788	6985	5859	8563	6760	5859	8337	6760	5633	8112	6760	5633	5408

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	219 fc	17 ft
8 ft	123 fc	23 ft
10 ft	79 fc	29 ft
12 ft	55 fc	35 ft
15 ft	35 fc	44 ft

