

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-6x6-D5-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00158

Test Date

2017-12-01

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



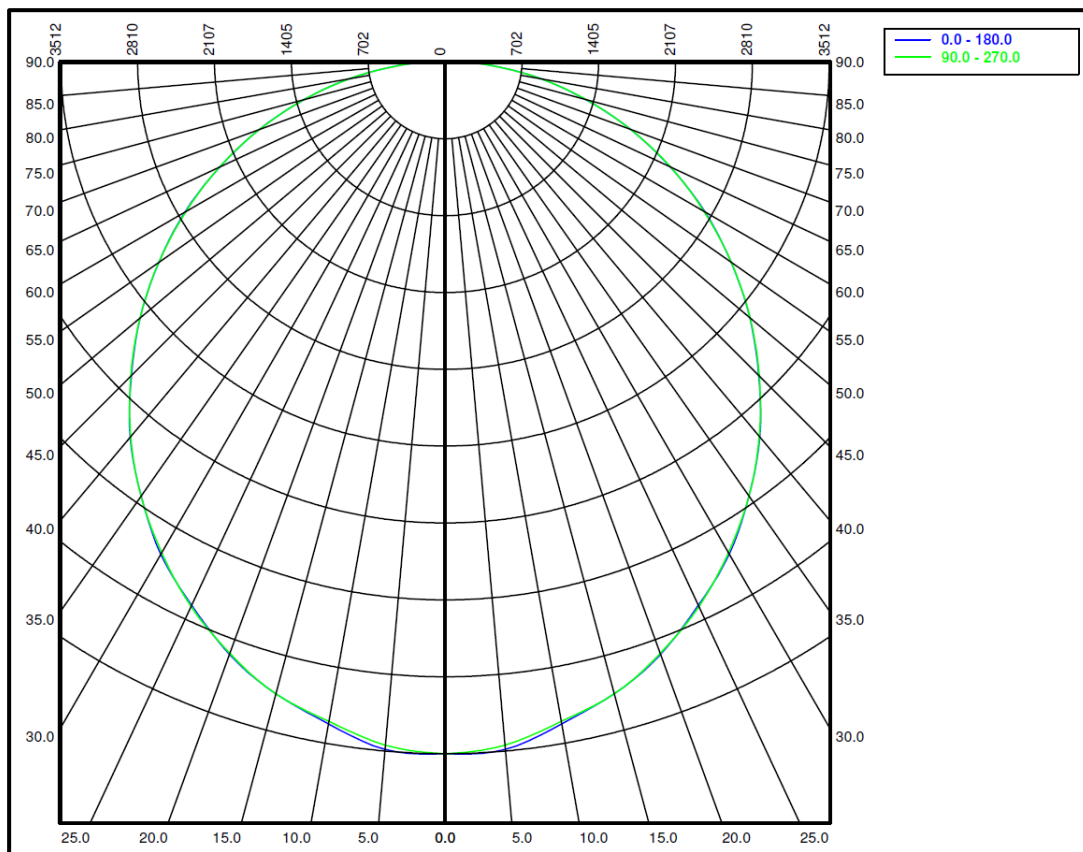
Image may differ slightly from actual unit

Summary of Results

System Power:	194.6W
Total Luminaire Output:	18041 Lumens
Luminaire Efficacy:	93 lm/W
Max Candela:	6321.65 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	593.87	3.3%	90-100	0	0.0%
10-20	1685.3	9.3%	100-110	0	0.0%
20-30	2532.91	14.0%	110-120	0	0.0%
30-40	3033.23	16.8%	120-130	0	0.0%
40-50	3137.53	17.4%	130-140	0	0.0%
50-60	2858.6	15.8%	140-150	0	0.0%
60-70	2250.14	12.5%	150-160	0	0.0%
70-80	1418.37	7.9%	160-170	0	0.0%
80-90	530.7	2.9%	170-180	0	0.0%
0-90	18040.65	100.0%	0-180	18040.65	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	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322	6322
5	6307	6255	6248	6251	6268	6251	6248	6255	6307	6255	6248	6251	6268	6251	6248	6255
10	6143	6128	6133	6152	6120	6152	6133	6128	6143	6128	6133	6152	6120	6152	6133	6128
15	5979	5955	5968	5991	5979	5991	5968	5955	5979	5955	5968	5991	5979	5991	5968	5955
20	5762	5763	5756	5762	5753	5762	5756	5763	5762	5763	5756	5762	5753	5762	5756	5763
25	5481	5486	5513	5496	5493	5496	5513	5486	5481	5486	5513	5496	5493	5496	5513	5486
30	5196	5188	5200	5186	5180	5186	5200	5188	5196	5188	5200	5186	5180	5186	5200	5188
35	4844	4841	4843	4856	4845	4856	4843	4841	4844	4841	4843	4856	4845	4856	4843	4841
40	4477	4478	4473	4476	4469	4476	4473	4478	4477	4478	4473	4476	4469	4476	4473	4478
45	4056	4062	4064	4070	4064	4070	4064	4062	4056	4062	4064	4070	4064	4070	4064	4062
50	3639	3634	3634	3648	3641	3648	3634	3634	3639	3634	3634	3648	3641	3648	3634	3634
55	3194	3202	3204	3191	3196	3191	3204	3202	3194	3202	3204	3191	3196	3191	3204	3202
60	2747	2734	2736	2739	2735	2739	2736	2734	2747	2734	2736	2739	2735	2739	2736	2734
65	2271	2269	2279	2273	2277	2273	2279	2269	2271	2269	2279	2273	2277	2273	2279	2269
70	1808	1803	1799	1797	1805	1797	1799	1803	1808	1803	1799	1797	1805	1797	1799	1803
75	1335	1342	1337	1338	1340	1338	1337	1342	1335	1342	1337	1338	1340	1338	1337	1342
80	888	896	900	892	892	892	900	896	888	896	900	892	892	892	900	896
85	460	459	459	459	458	459	459	459	460	459	459	459	458	459	459	459
90	137	135	134	135	138	135	134	135	137	135	134	135	138	135	134	135

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2007	2007	2007
45	1819	1823	1823
55	1766	1772	1767
65	1705	1710	1709
75	1636	1638	1643
85	1676	1670	1667

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	21468	21468	21468	21468	20927	20927	20927	20927	20025	20025	20025	19123	19123	19123	18401	18401	18401	18041
1	19484	18582	17860	16958	18943	18221	17499	16778	17319	16778	16237	16778	16237	15695	16056	15695	15335	14793
2	17680	16056	14793	13711	17139	15876	14613	13711	15154	14072	13350	14613	13711	12989	14072	13350	12628	12268
3	16056	14072	12628	11366	15695	13891	12448	11366	13350	12087	11185	12809	11726	10824	12268	11546	10644	10283
4	14793	12448	10824	9562	14252	12268	10824	9562	11726	10464	9381	11366	10283	9381	11005	9922	9201	8840
5	13530	11185	9562	8299	13170	11005	9381	8299	10644	9201	8118	10283	9020	8118	9922	8840	7938	7577
6	12448	10103	8479	7216	12087	9922	8299	7216	9562	8118	7216	9201	7938	7036	9020	7938	7036	6675
7	11546	9201	7577	6314	11185	9020	7397	6314	8660	7397	6314	8479	7216	6314	8118	7036	6134	5773
8	10824	8299	6675	5773	10464	8118	6675	5593	7938	6675	5593	7757	6495	5593	7577	6314	5593	5232
9	10103	7577	6134	5051	9742	7577	6134	5051	7397	5953	5051	7036	5953	5051	6855	5773	5051	4691
10	9381	7036	5593	4691	9201	7036	5593	4691	6855	5412	4691	6675	5412	4510	6495	5412	4510	4330

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	176 fc	17 ft
8 ft	99 fc	23 ft
10 ft	63 fc	29 ft
12 ft	44 fc	35 ft
15 ft	28 fc	43 ft

