

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-5x5-D2-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00152

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:	57.88 in
Luminous Width:	57.88 in
Luminous Height:	0.00 in

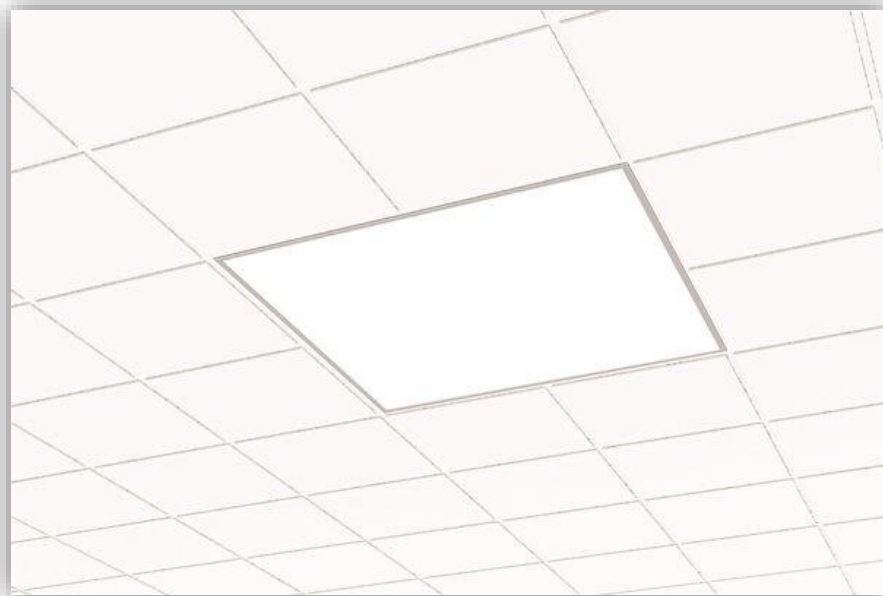


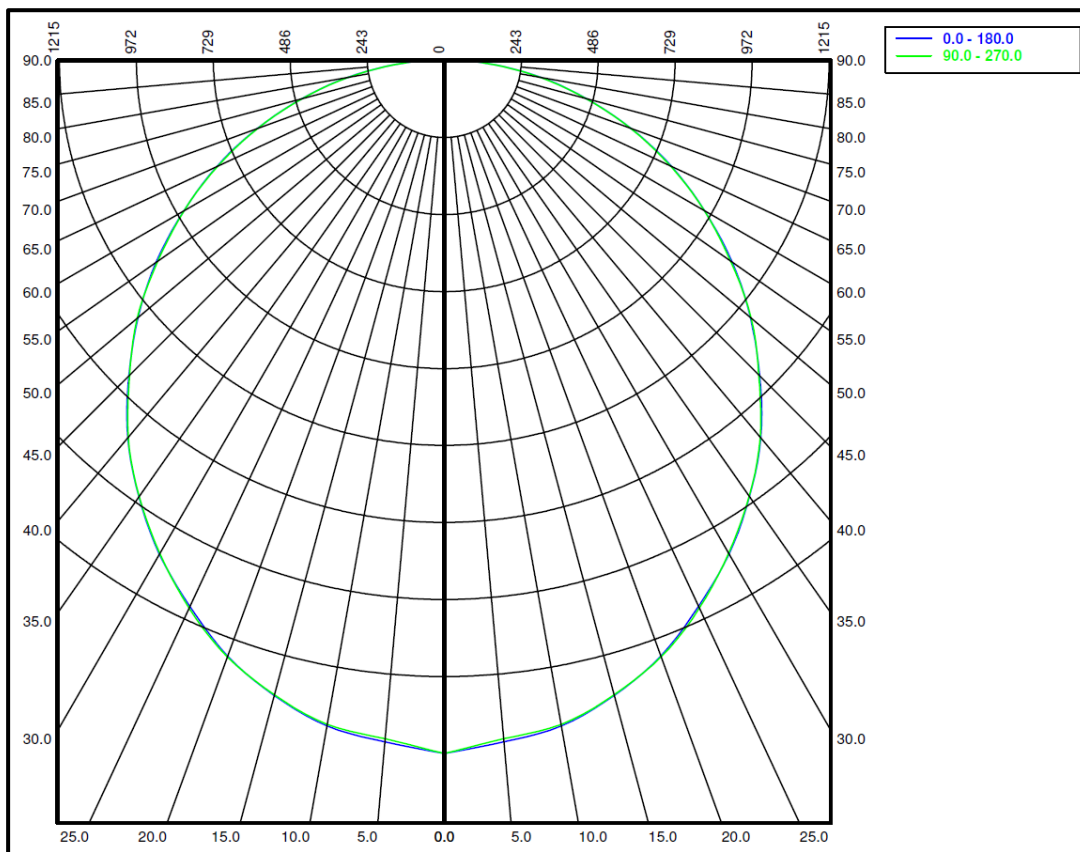
Image may differ slightly from actual unit

Summary of Results

System Power:	67.8W
Total Luminaire Output:	6257 Lumens
Luminaire Efficacy:	92 lm/W
Max Candela:	2186.75 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	205.56	3.3%	90-100	0	0.0%
10-20	584.67	9.3%	100-110	0	0.0%
20-30	878.74	14.0%	110-120	0	0.0%
30-40	1052.23	16.8%	120-130	0	0.0%
40-50	1087.59	17.4%	130-140	0	0.0%
50-60	991.51	15.8%	140-150	0	0.0%
60-70	781.36	12.5%	150-160	0	0.0%
70-80	492.03	7.9%	160-170	0	0.0%
80-90	183.74	2.9%	170-180	0	0.0%
0-90	6257.43	100.0%	0-180	6257.43	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	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187	2187
5	2158	2173	2158	2165	2149	2165	2158	2173	2158	2173	2158	2165	2149	2165	2158	2173
10	2132	2130	2132	2131	2127	2131	2132	2130	2132	2130	2132	2131	2127	2131	2132	2130
15	2074	2078	2072	2064	2072	2064	2072	2078	2074	2078	2072	2064	2072	2064	2072	2078
20	2000	1998	1995	1997	2003	1997	1995	1998	2000	1998	1995	1997	2003	1997	1995	1998
25	1900	1907	1906	1911	1907	1911	1906	1907	1900	1907	1906	1911	1907	1911	1906	1907
30	1799	1804	1799	1802	1796	1802	1799	1804	1799	1804	1799	1802	1796	1802	1799	1804
35	1681	1685	1681	1682	1679	1682	1681	1685	1681	1685	1681	1682	1679	1682	1681	1685
40	1555	1550	1549	1553	1552	1553	1549	1550	1555	1550	1549	1553	1552	1553	1549	1550
45	1409	1404	1408	1414	1405	1414	1408	1404	1409	1404	1408	1414	1405	1414	1408	1404
50	1262	1267	1257	1262	1266	1262	1257	1267	1262	1267	1257	1262	1266	1262	1257	1267
55	1111	1111	1108	1108	1104	1108	1108	1111	1111	1111	1108	1108	1104	1108	1108	1111
60	950	951	952	950	949	950	952	951	950	951	952	950	949	950	952	951
65	793	789	790	788	789	788	790	789	793	789	790	788	789	788	790	789
70	628	626	624	625	626	625	624	626	628	626	624	625	626	625	624	626
75	464	464	463	465	464	465	463	464	464	464	463	465	464	465	463	464
80	311	310	311	311	308	311	311	310	311	310	311	311	308	311	311	310
85	160	159	158	159	159	159	158	159	160	159	158	159	159	159	158	159
90	47	46	46	47	47	47	46	46	47	46	46	47	47	47	46	46

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	1012	1012	1012
45	921	920	918
55	896	893	890
65	868	864	863
75	830	827	828
85	848	839	845

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	7446	7446	7446	7446	7259	7259	7259	7259	6946	6946	6946	6633	6633	6633	6383	6383	6383	6257
1	6758	6445	6195	5882	6570	6320	6070	5819	6070	5819	5632	5819	5632	5444	5569	5444	5319	5131
2	6132	5569	5131	4756	5945	5507	5069	4756	5256	4881	4630	5069	4756	4505	4881	4630	4380	4255
3	5569	4881	4380	3942	5444	4818	4318	3942	4630	4192	3880	4443	4067	3754	4255	4005	3692	3567
4	5131	4318	3754	3316	4943	4255	3754	3316	4067	3629	3254	3942	3567	3254	3817	3442	3191	3066
5	4693	3880	3316	2878	4568	3817	3254	2878	3692	3191	2816	3567	3129	2816	3442	3066	2753	2628
6	4318	3504	2941	2503	4192	3442	2878	2503	3316	2816	2503	3191	2753	2440	3129	2753	2440	2315
7	4005	3191	2628	2190	3880	3129	2566	2190	3004	2566	2190	2941	2503	2190	2816	2440	2128	2002
8	3754	2878	2315	2002	3629	2816	2315	1940	2753	2315	1940	2691	2253	1940	2628	2190	1940	1815
9	3504	2628	2128	1752	3379	2628	2128	1752	2566	2065	1752	2440	2065	1752	2378	2002	1752	1627
10	3254	2440	1940	1627	3191	2440	1940	1627	2378	1877	1627	2315	1877	1564	2253	1877	1564	1502

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	61 fc	17 ft
8 ft	34 fc	23 ft
10 ft	22 fc	29 ft
12 ft	15 fc	35 ft
15 ft	10 fc	44 ft

