

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-5x5-D5-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00154

Test Date

2017-11-17

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

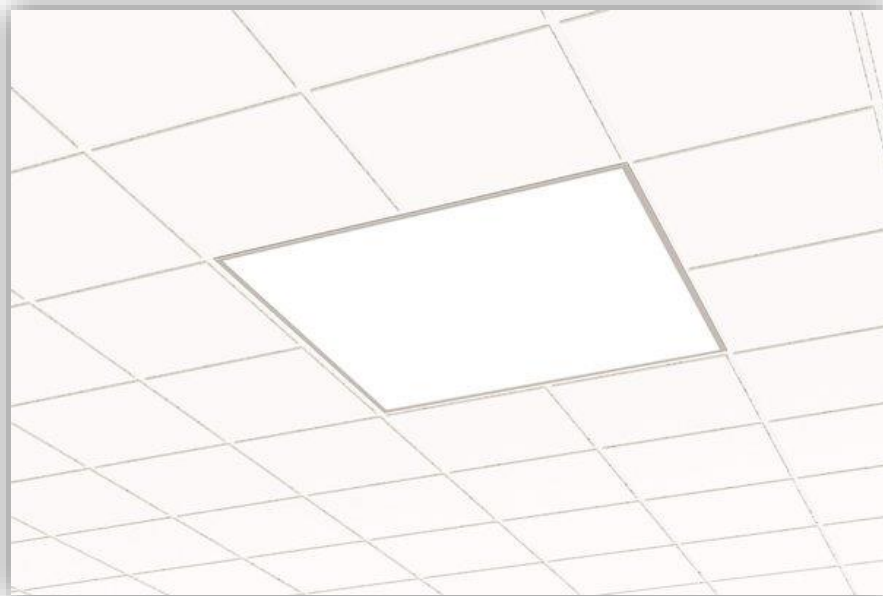


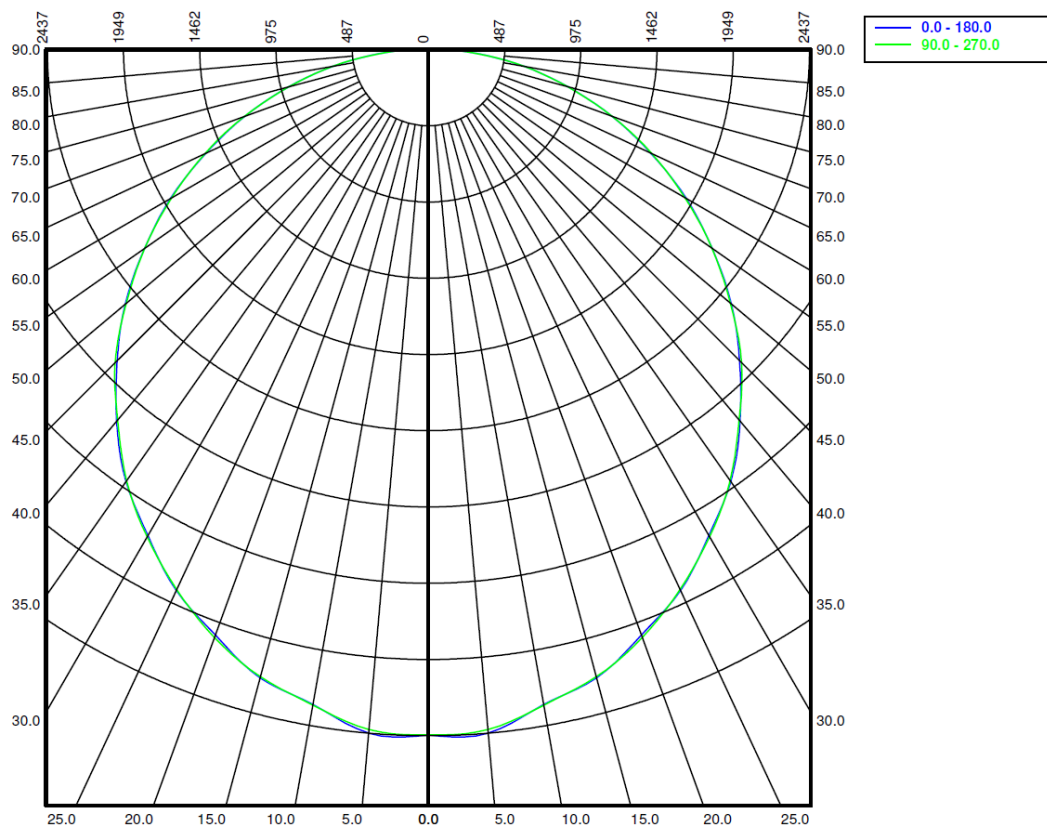
Image may differ slightly from actual unit

Summary of Results

System Power:	135.8W
Total Luminaire Output:	12515 Lumens
Luminaire Efficacy:	92 lm/W
Max Candela:	4386.23 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	412.04	3.3%	90-100	0	0.0%
10-20	1168.96	9.3%	100-110	0	0.0%
20-30	1757	14.0%	110-120	0	0.0%
30-40	2103.37	16.8%	120-130	0	0.0%
40-50	2177.02	17.4%	130-140	0	0.0%
50-60	1983.35	15.8%	140-150	0	0.0%
60-70	1561.75	12.5%	150-160	0	0.0%
70-80	983.76	7.9%	160-170	0	0.0%
80-90	367.31	2.9%	170-180	0	0.0%
0-90	12514.56	100.0%	0-180	12514.56	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	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380
5	4386	4342	4344	4319	4363	4319	4344	4342	4386	4342	4344	4319	4363	4319	4344	4342
10	4251	4259	4261	4256	4255	4256	4261	4259	4251	4259	4261	4256	4255	4256	4261	4259
15	4158	4142	4145	4131	4151	4131	4145	4142	4158	4142	4145	4131	4151	4131	4145	4142
20	3983	4000	3993	3994	4000	3994	3993	4000	3983	4000	3993	3994	4000	3994	3993	4000
25	3816	3816	3815	3812	3809	3812	3815	3816	3816	3816	3815	3812	3809	3812	3815	3816
30	3588	3599	3603	3601	3597	3601	3603	3599	3588	3599	3603	3601	3597	3601	3603	3599
35	3372	3359	3365	3360	3364	3360	3365	3359	3372	3359	3365	3360	3364	3360	3365	3359
40	3101	3100	3105	3097	3092	3097	3105	3100	3101	3100	3105	3097	3092	3097	3105	3100
45	2815	2820	2823	2824	2834	2824	2823	2820	2815	2820	2823	2824	2834	2824	2823	2820
50	2530	2519	2529	2522	2522	2522	2529	2519	2530	2519	2529	2522	2522	2522	2529	2519
55	2216	2215	2220	2221	2214	2221	2220	2215	2216	2215	2220	2221	2214	2221	2220	2215
60	1905	1904	1898	1907	1895	1907	1898	1904	1905	1904	1898	1907	1895	1907	1898	1904
65	1571	1576	1582	1573	1579	1573	1582	1576	1571	1576	1582	1573	1579	1573	1582	1576
70	1250	1252	1251	1251	1254	1251	1251	1252	1250	1252	1251	1251	1254	1251	1251	1252
75	927	928	931	928	924	928	931	928	927	928	931	928	924	928	931	928
80	621	620	617	619	621	619	617	620	621	620	617	619	621	619	617	620
85	322	317	317	319	316	319	317	317	322	317	317	319	316	319	317	317
90	96	92	92	92	93	92	92	92	96	92	92	92	93	92	92	92

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2027	2027	2027
45	1840	1845	1853
55	1786	1789	1784
65	1718	1730	1727
75	1656	1663	1651
85	1710	1684	1676

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	14892	14892	14892	14892	14517	14517	14517	14517	13891	13891	13891	13265	13265	13265	12765	12765	12765	12515
1	13516	12890	12389	11764	13140	12640	12139	11639	12014	11639	11263	11639	11263	10888	11138	10888	10637	10262
2	12264	11138	10262	9511	11889	11013	10137	9511	10512	9761	9261	10137	9511	9010	9761	9261	8760	8510
3	11138	9761	8760	7884	10888	9636	8635	7884	9261	8385	7759	8885	8134	7509	8510	8009	7384	7133
4	10262	8635	7509	6633	9887	8510	7509	6633	8134	7258	6508	7884	7133	6508	7634	6883	6382	6132
5	9386	7759	6633	5757	9136	7634	6508	5757	7384	6382	5632	7133	6257	5632	6883	6132	5506	5256
6	8635	7008	5882	5006	8385	6883	5757	5006	6633	5632	5006	6382	5506	4881	6257	5506	4881	4630
7	8009	6382	5256	4380	7759	6257	5131	4380	6007	5131	4380	5882	5006	4380	5632	4881	4255	4005
8	7509	5757	4630	4005	7258	5632	4630	3880	5506	4630	3880	5381	4505	3880	5256	4380	3880	3629
9	7008	5256	4255	3504	6758	5256	4255	3504	5131	4130	3504	4881	4130	3504	4756	4005	3504	3254
10	6508	4881	3880	3254	6382	4881	3880	3254	4756	3754	3254	4630	3754	3129	4505	3754	3129	3003

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	122 fc	17 ft
8 ft	68 fc	23 ft
10 ft	44 fc	29 ft
12 ft	30 fc	35 ft
15 ft	19 fc	43 ft

