

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NUB-RS-4x4-D3-30-80-NM-W

(White Housing – Direct – Newmat Material Lenses)

Test Number

IES-P00130

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

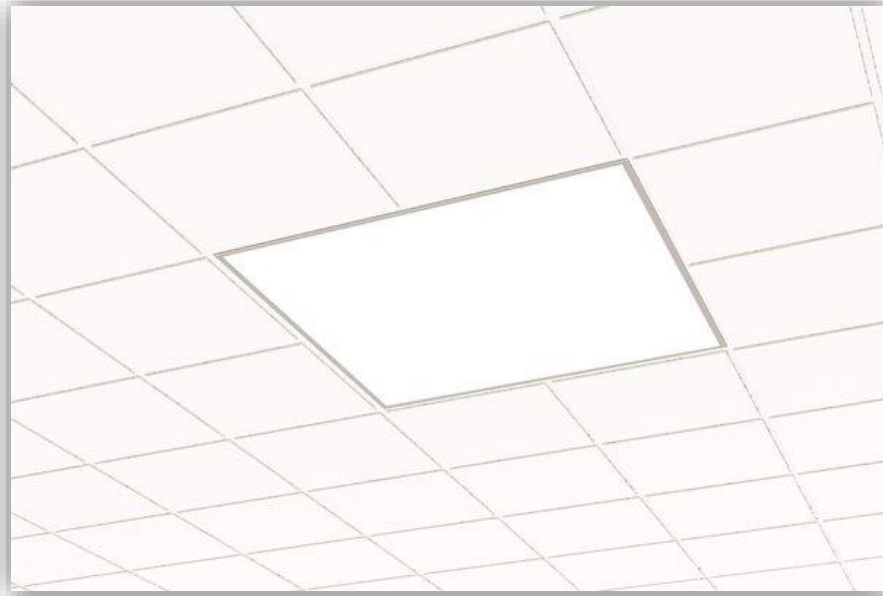


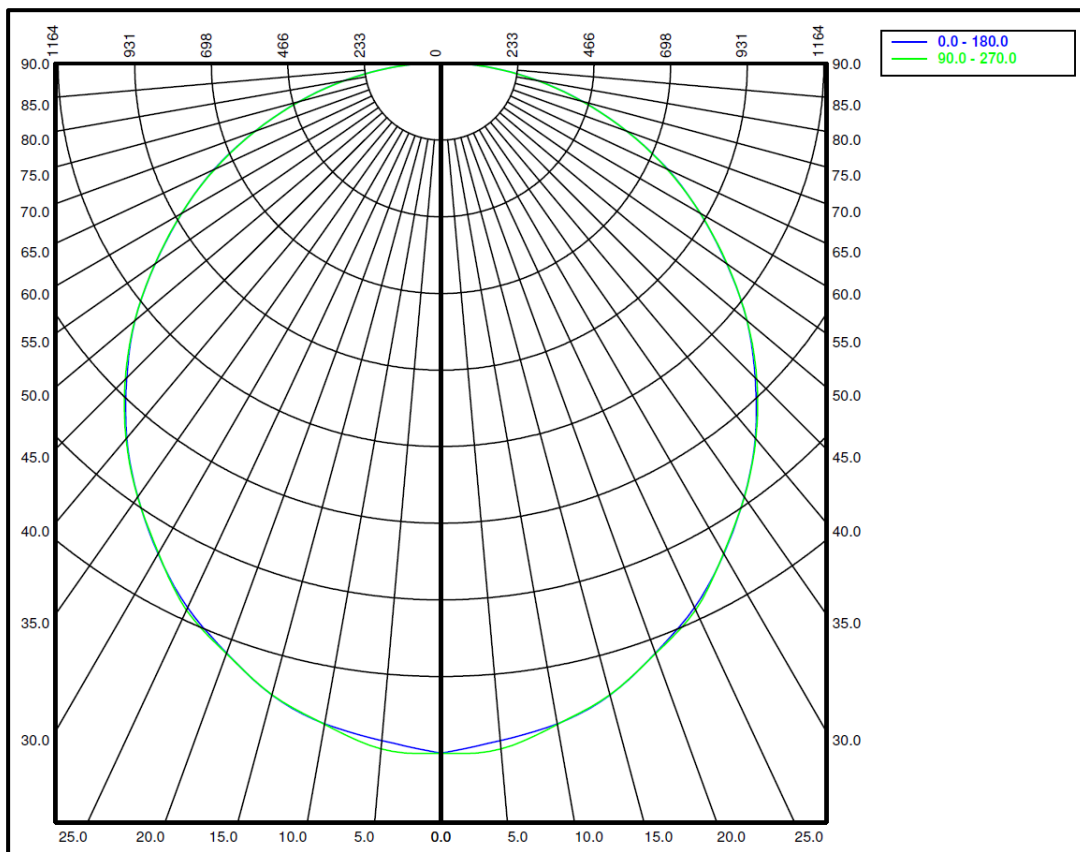
Image may differ slightly from actual unit

Summary of Results

System Power:	67.0W
Total Luminaire Output:	6004 Lumens
Luminaire Efficacy:	90 lm/W
Max Candela:	2095.35 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	197.29	3.3%	90-100	0	0.0%
10-20	560.38	9.3%	100-110	0	0.0%
20-30	841.27	14.0%	110-120	0	0.0%
30-40	1007.93	16.8%	120-130	0	0.0%
40-50	1043.22	17.4%	130-140	0	0.0%
50-60	950.04	15.8%	140-150	0	0.0%
60-70	749.68	12.5%	150-160	0	0.0%
70-80	472.78	7.9%	160-170	0	0.0%
80-90	181.8	3.0%	170-180	0	0.0%
0-90	6004.39	100.0%	0-180	6004.39	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	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095	2095
5	2065	2071	2087	2079	2090	2079	2087	2071	2065	2071	2087	2079	2090	2079	2087	2071
10	2037	2042	2042	2043	2039	2043	2042	2042	2037	2042	2042	2043	2039	2043	2042	2042
15	1987	1987	1987	1989	1986	1989	1987	1987	1987	1987	1987	1989	1986	1989	1987	1987
20	1906	1922	1912	1908	1908	1908	1912	1922	1906	1922	1912	1908	1908	1908	1912	1922
25	1824	1827	1825	1822	1832	1822	1825	1827	1824	1827	1825	1822	1832	1822	1825	1827
30	1720	1725	1725	1726	1718	1726	1725	1725	1720	1725	1725	1726	1718	1726	1725	1725
35	1608	1610	1614	1615	1608	1615	1614	1610	1608	1610	1614	1615	1608	1615	1614	1610
40	1486	1486	1485	1483	1489	1483	1485	1486	1486	1486	1485	1483	1489	1483	1485	1486
45	1351	1349	1348	1354	1358	1354	1348	1349	1351	1349	1348	1354	1358	1354	1348	1349
50	1214	1212	1210	1211	1215	1211	1210	1212	1214	1212	1210	1211	1215	1211	1210	1212
55	1060	1059	1063	1060	1062	1060	1063	1059	1060	1059	1063	1060	1062	1060	1063	1059
60	910	911	912	912	911	912	912	911	910	911	912	912	911	912	912	911
65	762	758	757	757	759	757	757	758	762	758	757	757	759	757	757	758
70	602	600	600	599	601	599	600	600	602	600	600	599	601	599	600	600
75	447	445	446	445	446	445	446	445	447	445	446	445	446	445	446	445
80	299	300	299	299	298	299	299	300	299	300	299	299	298	299	299	300
85	161	159	158	159	160	159	158	159	161	159	158	159	160	159	158	159
90	51	50	50	49	50	49	50	50	51	50	50	49	50	49	50	50

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	1543	1543	1543
45	1406	1403	1413
55	1360	1363	1362
65	1326	1317	1320
75	1271	1268	1269
85	1359	1336	1351

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	7145	7145	7145	7145	6965	6965	6965	6965	6665	6665	6665	6365	6365	6365	6124	6124	6124	6004
1	6485	6185	5884	5644	6305	6064	5824	5584	5764	5584	5404	5584	5404	5224	5344	5224	5104	4924
2	5884	5344	4924	4563	5704	5284	4864	4503	5044	4683	4443	4864	4563	4323	4683	4443	4203	4083
3	5344	4683	4203	3783	5224	4623	4143	3783	4443	4023	3723	4263	3903	3603	4083	3843	3543	3423
4	4924	4143	3603	3182	4743	4083	3603	3182	3903	3483	3122	3783	3423	3122	3663	3302	3062	2942
5	4503	3723	3182	2762	4383	3663	3122	2762	3543	3062	2702	3423	3002	2702	3302	2942	2642	2522
6	4143	3362	2822	2402	4023	3302	2762	2402	3182	2702	2342	3062	2642	2342	3002	2642	2342	2222
7	3843	3002	2522	2102	3723	3002	2462	2102	2882	2402	2102	2822	2402	2102	2702	2342	2041	1921
8	3603	2762	2222	1921	3483	2702	2222	1861	2642	2222	1861	2582	2162	1861	2522	2102	1861	1741
9	3362	2522	2041	1681	3242	2522	2041	1681	2462	1981	1681	2342	1981	1681	2282	1921	1681	1561
10	3122	2342	1861	1561	3062	2282	1861	1561	2222	1801	1561	2222	1801	1501	2162	1801	1501	1381

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	58 fc	17 ft
8 ft	33 fc	23 ft
10 ft	21 fc	29 ft
12 ft	15 fc	35 ft
15 ft	9 fc	44 ft

