

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

ELI-R-2x4-DR7-30-80-FW-W

(White Housing – Direct – Frosted Lenses)

Test Number

IES-P00128

Test Date

2017-07-17

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	White, Sheet Metal Housing/Reflector, Direct w/ Frosted Acrylic Lenses
Lamp:	LED (3000K, 80+ CRI)
Installation:	Recess Mounted
Luminous Length:	46.56 in
Luminous Width:	22.56 in
Luminous Height:	0.00 in

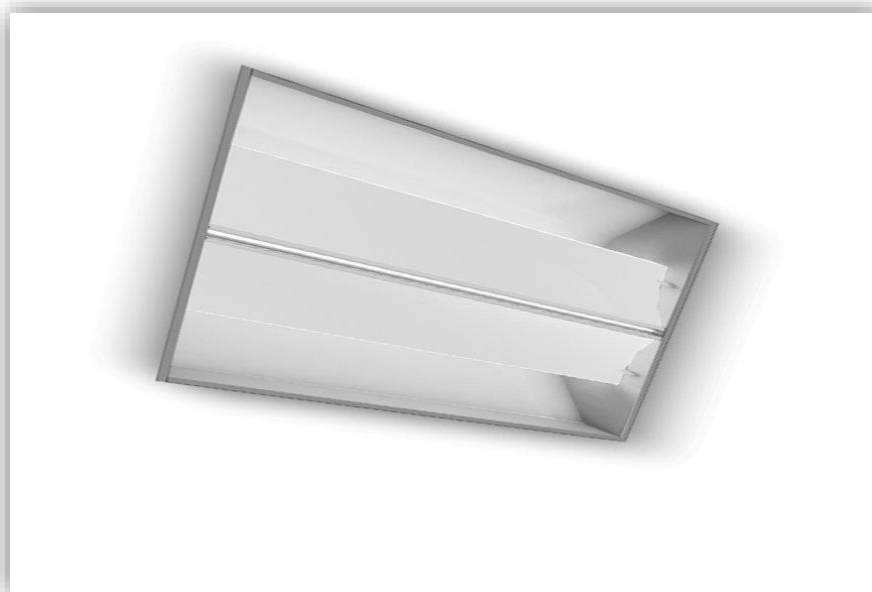


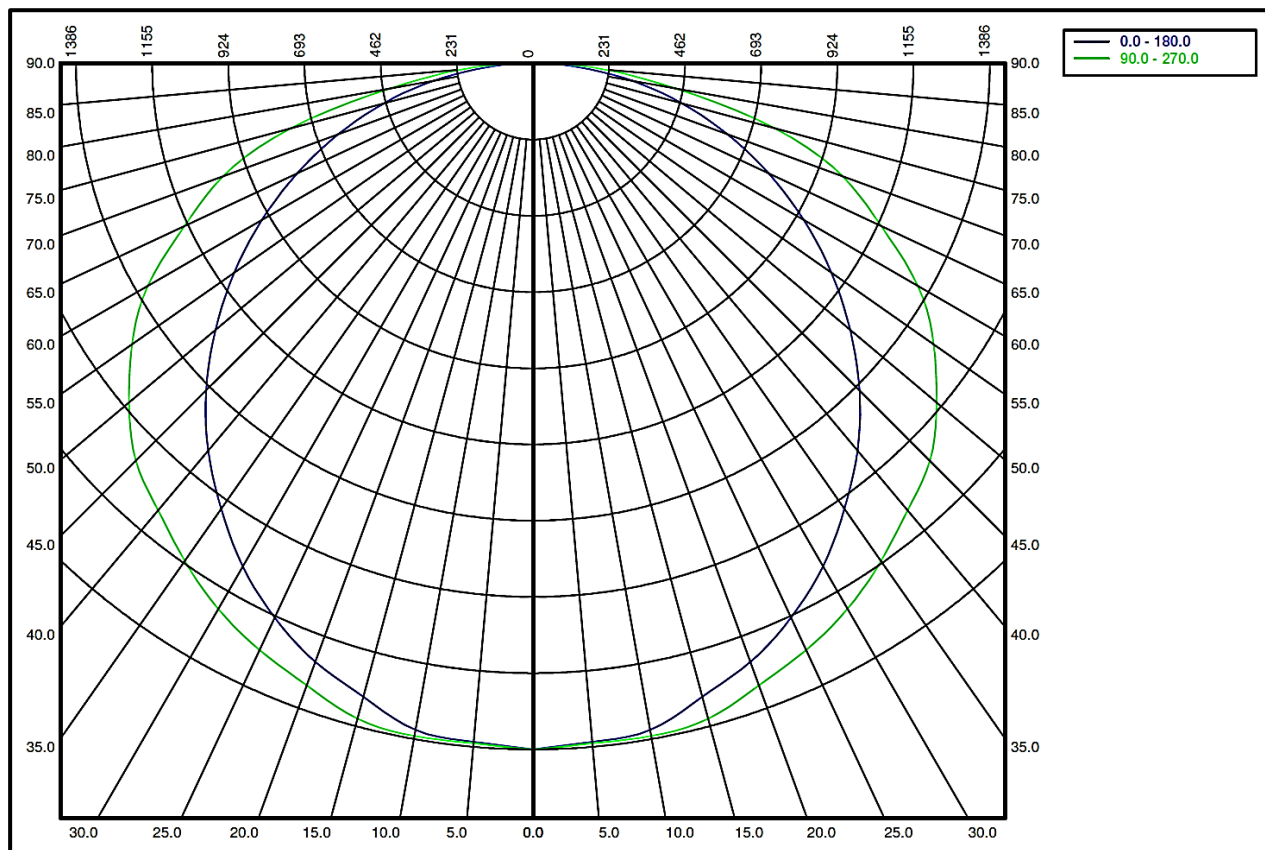
Image may differ slightly from actual unit

Summary of Results

System Power:	69.3W
Total Luminaire Output:	7006 Lumens
Luminaire Efficacy:	101 lm/W
Max Candela:	2078.77 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	197.15	2.8%	90-100	0	0.0%
10-20	570.59	8.1%	100-110	0	0.0%
20-30	880.74	12.6%	110-120	0	0.0%
30-40	1095.15	15.6%	120-130	0	0.0%
40-50	1195.48	17.1%	130-140	0	0.0%
50-60	1169.37	16.7%	140-150	0	0.0%
60-70	1001.11	14.3%	150-160	0	0.0%
70-80	674.41	9.6%	160-170	0	0.0%
80-90	222.39	3.2%	170-180	0	0.0%
0-90	7006.39	100.0%	0-180	7006.39	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	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079	2079
5	2063	2076	2067	2073	2069	2073	2067	2076	2063	2076	2067	2073	2069	2073	2067	2076
10	2051	2047	2053	2055	2070	2055	2053	2047	2051	2047	2053	2055	2070	2055	2053	2047
15	1987	2009	2022	2033	2056	2033	2022	2009	1987	2009	2022	2033	2056	2033	2022	2009
20	1930	1942	1971	1994	2006	1994	1971	1942	1930	1942	1971	1994	2006	1994	1971	1942
25	1853	1875	1909	1947	1962	1947	1909	1875	1853	1875	1909	1947	1962	1947	1909	1875
30	1760	1784	1838	1885	1909	1885	1838	1784	1760	1784	1838	1885	1909	1885	1838	1784
35	1648	1683	1749	1817	1841	1817	1749	1683	1648	1683	1749	1817	1841	1817	1749	1683
40	1532	1566	1656	1739	1768	1739	1656	1566	1532	1566	1656	1739	1768	1739	1656	1566
45	1402	1445	1549	1649	1703	1649	1549	1445	1402	1445	1549	1649	1703	1649	1549	1445
50	1257	1312	1437	1557	1599	1557	1437	1312	1257	1312	1437	1557	1599	1557	1437	1312
55	1106	1180	1323	1438	1484	1438	1323	1180	1106	1180	1323	1438	1484	1438	1323	1180
60	949	1035	1191	1305	1349	1305	1191	1035	949	1035	1191	1305	1349	1305	1191	1035
65	789	895	1043	1138	1166	1138	1043	895	789	895	1043	1138	1166	1138	1043	895
70	629	743	863	957	1000	957	863	743	629	743	863	957	1000	957	863	743
75	469	567	676	750	760	750	676	567	469	567	676	750	760	750	676	567
80	308	386	435	433	442	433	435	386	308	386	435	433	442	433	435	386
85	143	178	201	217	222	217	201	178	143	178	201	217	222	217	201	178
90	19	24	21	18	17	18	21	24	19	24	21	18	17	18	21	24

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2936	2936	2936
45	2798	3092	3400
55	2721	3256	3653
65	2635	3482	3894
75	2557	3688	4144
85	2320	3262	3601

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	8338	8338	8338	8338	8127	8127	8127	8127	7777	7777	7777	7427	7427	7427	7147	7147	7147	7006
1	7497	7147	6796	6516	7357	7006	6656	6446	6726	6446	6236	6446	6236	6025	6166	5955	5815	5675
2	6796	6166	5605	5185	6586	6025	5535	5115	5745	5325	4975	5535	5185	4904	5325	5045	4764	4624
3	6166	5325	4764	4274	5955	5255	4694	4204	5045	4554	4134	4834	4414	4064	4624	4274	3994	3783
4	5605	4694	4064	3573	5465	4624	3994	3503	4414	3924	3503	4274	3783	3433	4134	3713	3363	3223
5	5115	4204	3503	3013	4975	4134	3503	3013	3924	3363	2943	3783	3293	2943	3643	3223	2873	2732
6	4764	3713	3083	2592	4624	3713	3083	2592	3573	3013	2592	3433	2943	2522	3293	2873	2522	2382
7	4344	3363	2732	2312	4274	3293	2732	2312	3223	2662	2242	3083	2592	2242	3013	2592	2242	2102
8	4064	3083	2452	2032	3924	3013	2452	2032	2943	2382	2032	2873	2382	2032	2732	2312	1962	1822
9	3783	2803	2242	1822	3713	2803	2172	1822	2662	2172	1822	2592	2172	1822	2522	2102	1752	1682
10	3573	2592	2032	1611	3433	2592	2032	1611	2522	1962	1611	2452	1962	1611	2382	1892	1611	1471

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	58 fc	21 ft
8 ft	32 fc	29 ft
10 ft	21 fc	36 ft
12 ft	14 fc	43 ft
15 ft	9 fc	54 ft

