

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

ELI-R-2x4-DR5-30-80-FW-W

(White Housing – Direct – Frosted Lenses)

Test Number

IES-P00127

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

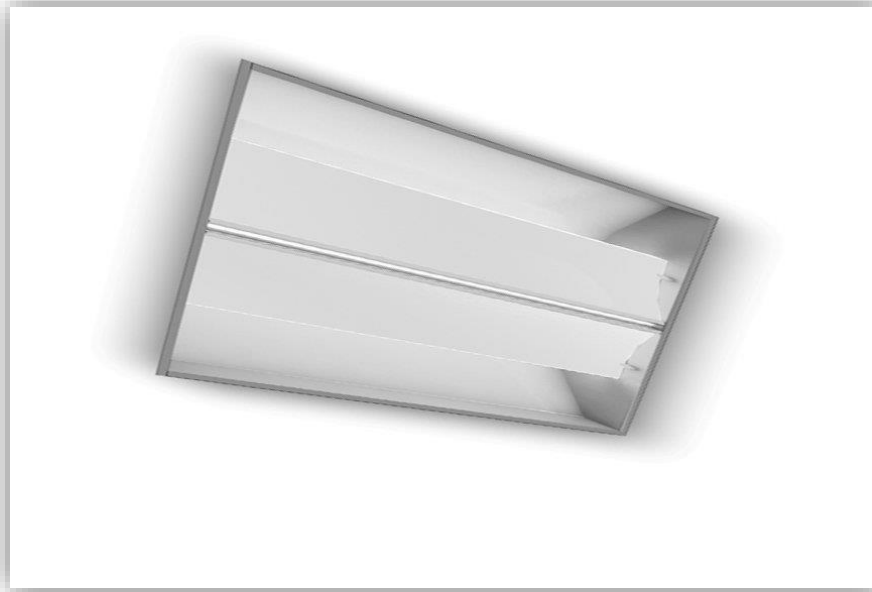


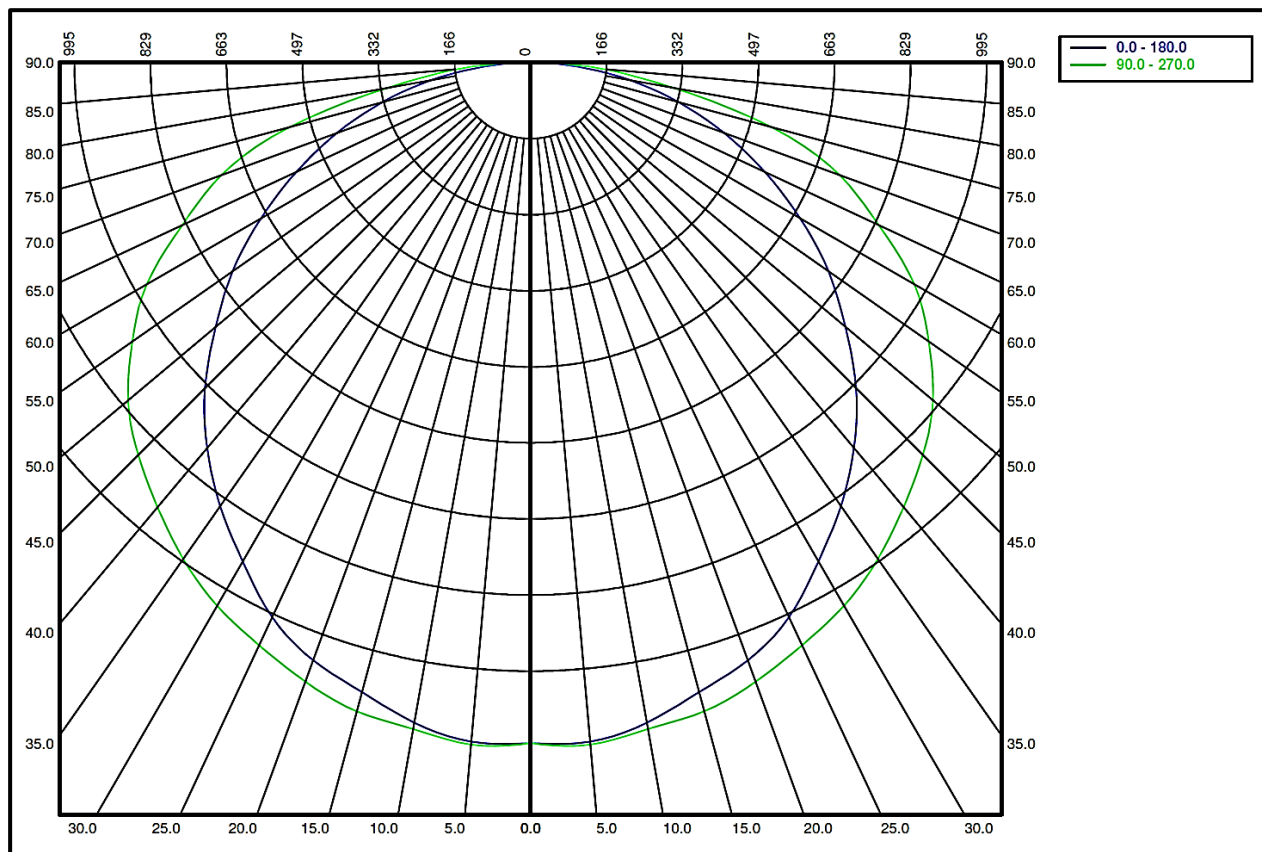
Image may differ slightly from actual unit

Summary of Results

System Power:	46.4W
Total Luminaire Output:	5010 Lumens
Luminaire Efficacy:	108 lm/W
Max Candela:	1492.07 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	141.04	2.8%	90-100	0	0.0%
10-20	408.34	8.2%	100-110	0	0.0%
20-30	630.44	12.6%	110-120	0	0.0%
30-40	782.91	15.6%	120-130	0	0.0%
40-50	854.53	17.1%	130-140	0	0.0%
50-60	835.92	16.7%	140-150	0	0.0%
60-70	716.21	14.3%	150-160	0	0.0%
70-80	482.04	9.6%	160-170	0	0.0%
80-90	158.75	3.2%	170-180	0	0.0%
0-90	5010.18	100.0%	0-180	5010.18	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	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483
5	1486	1485	1470	1481	1492	1481	1470	1485	1486	1485	1470	1481	1492	1481	1470	1485
10	1461	1462	1470	1483	1475	1483	1470	1462	1461	1462	1470	1483	1475	1483	1470	1462
15	1421	1434	1443	1459	1464	1459	1443	1434	1421	1434	1443	1459	1464	1459	1443	1434
20	1386	1393	1412	1430	1436	1430	1412	1393	1386	1393	1412	1430	1436	1430	1412	1393
25	1334	1342	1367	1392	1401	1392	1367	1342	1334	1342	1367	1392	1401	1392	1367	1342
30	1256	1277	1312	1345	1367	1345	1312	1277	1256	1277	1312	1345	1367	1345	1312	1277
35	1180	1204	1248	1298	1321	1298	1248	1204	1180	1204	1248	1298	1321	1298	1248	1204
40	1097	1122	1184	1239	1265	1239	1184	1122	1097	1122	1184	1239	1265	1239	1184	1122
45	1004	1033	1107	1181	1210	1181	1107	1033	1004	1033	1107	1181	1210	1181	1107	1033
50	896	940	1027	1112	1145	1112	1027	940	896	940	1027	1112	1145	1112	1027	940
55	794	841	945	1029	1060	1029	945	841	794	841	945	1029	1060	1029	945	841
60	679	741	852	933	966	933	852	741	679	741	852	933	966	933	852	741
65	564	640	745	815	838	815	745	640	564	640	745	815	838	815	745	640
70	450	529	616	684	718	684	616	529	450	529	616	684	718	684	616	529
75	335	405	484	535	545	535	484	405	335	405	484	535	545	535	484	405
80	220	274	311	309	316	309	311	274	220	274	311	309	316	309	311	274
85	103	127	144	154	158	154	144	127	103	127	144	154	158	154	144	127
90	13	17	15	13	12	13	15	17	13	17	15	13	12	13	15	17

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	2095	2095	2095
45	2005	2210	2415
55	1953	2326	2609
65	1884	2488	2799
75	1828	2640	2974
85	1666	2339	2553

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	5962	5962	5962	5962	5812	5812	5812	5812	5561	5561	5561	5311	5311	5311	5110	5110	5110	5010
1	5361	5110	4860	4659	5261	5010	4760	4609	4810	4609	4459	4609	4459	4309	4409	4309	4158	4058
2	4860	4409	4008	3708	4710	4309	3958	3657	4108	3808	3557	3958	3708	3507	3808	3607	3407	3307
3	4409	3808	3407	3056	4259	3758	3357	3006	3607	3257	2956	3457	3156	2906	3307	3056	2856	2705
4	4008	3357	2906	2555	3908	3307	2856	2505	3156	2806	2505	3056	2705	2455	2956	2655	2405	2305
5	3657	3006	2505	2154	3557	2956	2505	2154	2806	2405	2104	2705	2355	2104	2605	2305	2054	1954
6	3407	2655	2204	1854	3307	2655	2204	1854	2555	2154	1854	2455	2104	1804	2355	2054	1804	1703
7	3106	2405	1954	1653	3056	2405	1954	1653	2305	1904	1603	2204	1854	1603	2154	1854	1603	1503
8	2906	2204	1754	1453	2806	2154	1754	1453	2104	1703	1453	2054	1703	1453	1954	1653	1403	1303
9	2705	2004	1603	1303	2655	2004	1603	1303	1904	1553	1303	1854	1553	1303	1804	1503	1253	1202
10	2555	1854	1453	1152	2455	1854	1453	1152	1804	1403	1152	1754	1403	1152	1703	1403	1152	1052

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	41 fc	21 ft
8 ft	23 fc	29 ft
10 ft	15 fc	36 ft
12 ft	10 fc	43 ft
15 ft	7 fc	54 ft

