



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NIC-L-4'-D7-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00038

Test Date

2017-02-22

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	Extruded Aluminum Housing, Semi-direct w/ Frosted Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Suspension from Ceiling, Surface Mounted
Luminous Length:	47.88 in
Luminous Width:	1.75 in
Luminous Height:	1.25 in

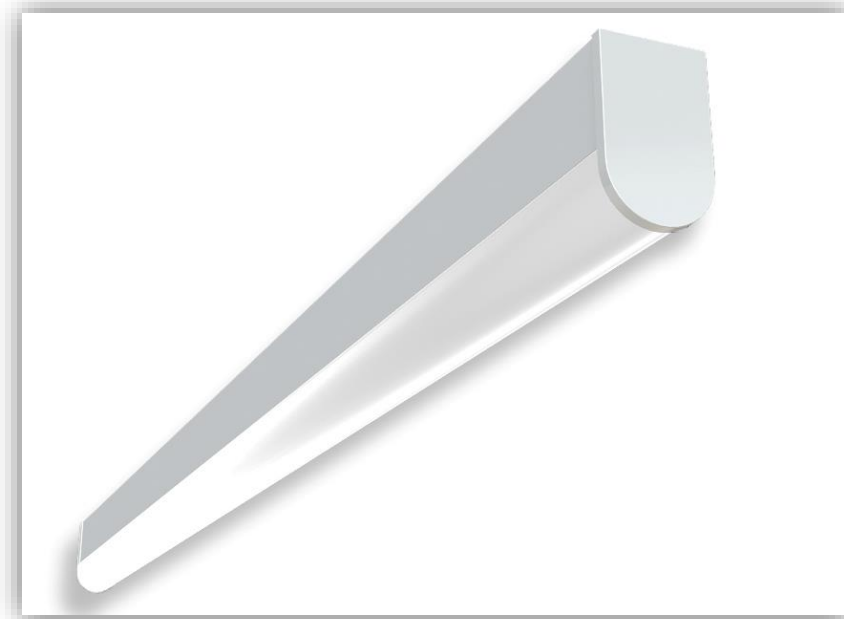


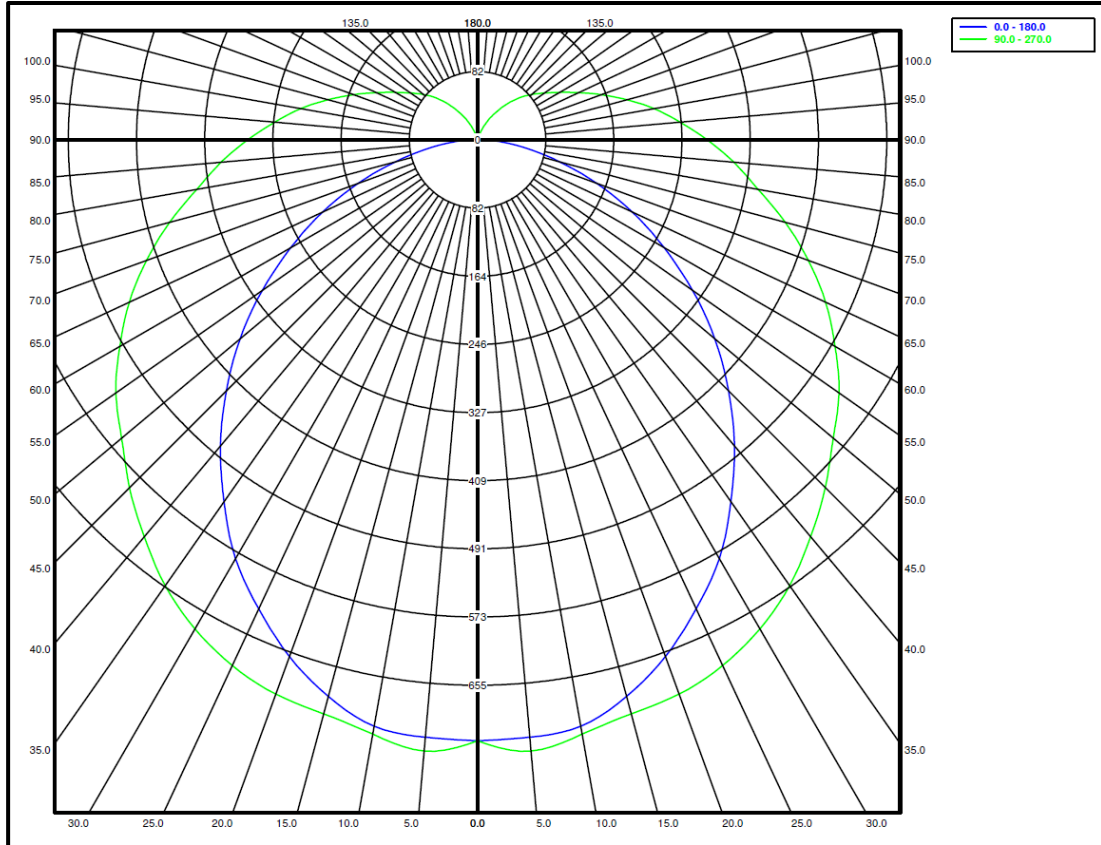
Image may differ slightly from actual unit

Summary of Results

System Power:	25.3W
Total Luminaire Output:	3020 Lumens
Luminaire Efficacy:	119 lm/W
Max Candela:	736.69 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	68.98	2.3%	90-100	160.44	5.3%
10-20	198.12	6.6%	100-110	112.54	3.7%
20-30	304.17	10.1%	110-120	74.92	2.5%
30-40	373.67	12.4%	120-130	48.34	1.6%
40-50	399.91	13.2%	130-140	28.47	0.9%
50-60	387.78	12.8%	140-150	13.23	0.4%
60-70	345.72	11.4%	150-160	4	0.1%
70-80	282.79	9.4%	160-170	0.51	0.0%
80-90	216.2	7.2%	170-180	0	0.0%
0-90	2577.34	85.3%	0-180	3019.79	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	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721	721
5	720	728	728	729	737	729	728	728	720	728	728	729	737	729	728	728
10	715	710	716	717	725	717	716	710	715	710	716	717	725	717	716	710
15	692	695	698	711	713	711	698	695	692	695	698	711	713	711	698	695
20	660	666	680	697	708	697	680	666	660	666	680	697	708	697	680	666
25	621	632	663	686	696	686	663	632	621	632	663	686	696	686	663	632
30	581	596	634	666	678	666	634	596	581	596	634	666	678	666	634	596
35	531	553	604	639	653	639	604	553	531	553	604	639	653	639	604	553
40	480	509	567	608	622	608	567	509	480	509	567	608	622	608	567	509
45	426	463	526	573	591	573	526	463	426	463	526	573	591	573	526	463
50	372	413	485	538	557	538	485	413	372	413	485	538	557	538	485	413
55	316	364	442	503	530	503	442	364	316	364	442	503	530	503	442	364
60	259	314	400	470	496	470	400	314	259	314	400	470	496	470	400	314
65	205	265	361	436	461	436	361	265	205	265	361	436	461	436	361	265
70	152	220	324	398	422	398	324	220	152	220	324	398	422	398	324	220
75	102	179	288	358	383	358	288	179	102	179	288	358	383	358	288	179
80	61	143	251	321	342	321	251	143	61	143	251	321	342	321	251	143
85	29	112	219	286	309	286	219	112	29	112	219	286	309	286	219	112
90	13	89	192	256	276	256	192	89	13	89	192	256	276	256	192	89
95	7	69	165	226	244	226	165	69	7	69	165	226	244	226	165	69
100	5	54	138	197	215	197	138	54	5	54	138	197	215	197	138	54
105	3	44	116	169	186	169	116	44	3	44	116	169	186	169	116	44
110	2	35	97	143	158	143	97	35	2	35	97	143	158	143	97	35
115	1	29	82	121	134	121	82	29	1	29	82	121	134	121	82	29
120	1	23	69	103	114	103	69	23	1	23	69	103	114	103	69	23
125	0	18	59	88	98	88	59	18	0	18	59	88	98	88	59	18
130	0	13	49	75	85	75	49	13	0	13	49	75	85	75	49	13
135	0	9	38	62	71	62	38	9	0	9	38	62	71	62	38	9
140	0	6	29	51	58	51	29	6	0	6	29	51	58	51	29	6
145	0	4	20	37	43	37	20	4	0	4	20	37	43	37	20	4
150	0	2	12	25	30	25	12	2	0	2	12	25	30	25	12	2
155	0	1	7	15	19	15	7	1	0	1	7	15	19	15	7	1
160	0	0	3	7	10	7	3	0	0	0	3	7	10	7	3	0
165	0	0	1	3	4	3	1	0	0	0	1	3	4	3	1	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	13347	13347	13347
45	10855	9024	9005
55	9804	8143	8450
65	8504	7439	7965
75	6664	6953	7452
85	4817	6645	7151

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	3503	3503	3503	3503	3352	3352	3352	3352	3110	3110	3110	2869	2869	2869	2688	2688	2688	2567
1	3110	2929	2748	2627	2959	2808	2657	2537	2597	2476	2355	2386	2295	2204	2204	2144	2084	1993
2	2778	2506	2265	2084	2657	2416	2204	2023	2235	2053	1902	2053	1902	1782	1902	1782	1691	1600
3	2537	2174	1902	1691	2416	2084	1842	1631	1933	1721	1570	1782	1631	1480	1661	1510	1389	1299
4	2295	1902	1631	1419	2204	1842	1570	1389	1721	1480	1299	1570	1389	1238	1480	1299	1178	1087
5	2114	1691	1419	1208	2023	1631	1359	1178	1510	1299	1117	1419	1208	1057	1329	1148	1027	936
6	1933	1510	1238	1027	1842	1480	1208	1027	1359	1148	966	1268	1087	936	1178	1027	876	815
7	1812	1389	1117	906	1721	1329	1087	906	1238	1027	846	1148	966	815	1087	906	785	725
8	1661	1238	997	815	1600	1208	966	785	1148	906	755	1057	876	725	997	815	695	634
9	1570	1148	906	725	1480	1117	876	695	1027	815	695	966	785	664	906	755	634	574
10	1449	1057	815	664	1389	1027	785	634	966	755	604	906	725	604	846	695	574	513

