



Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

NIC-L-4'-D10-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00039

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

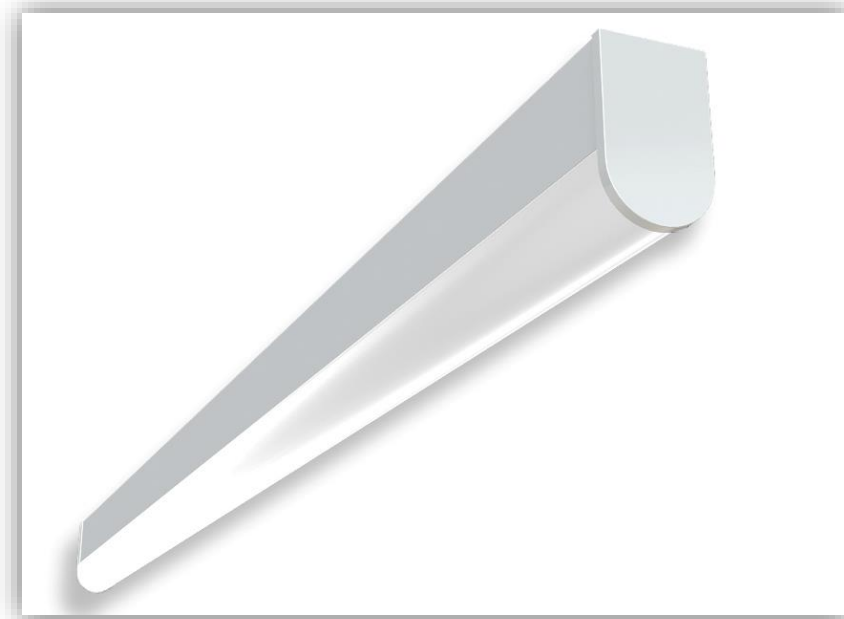


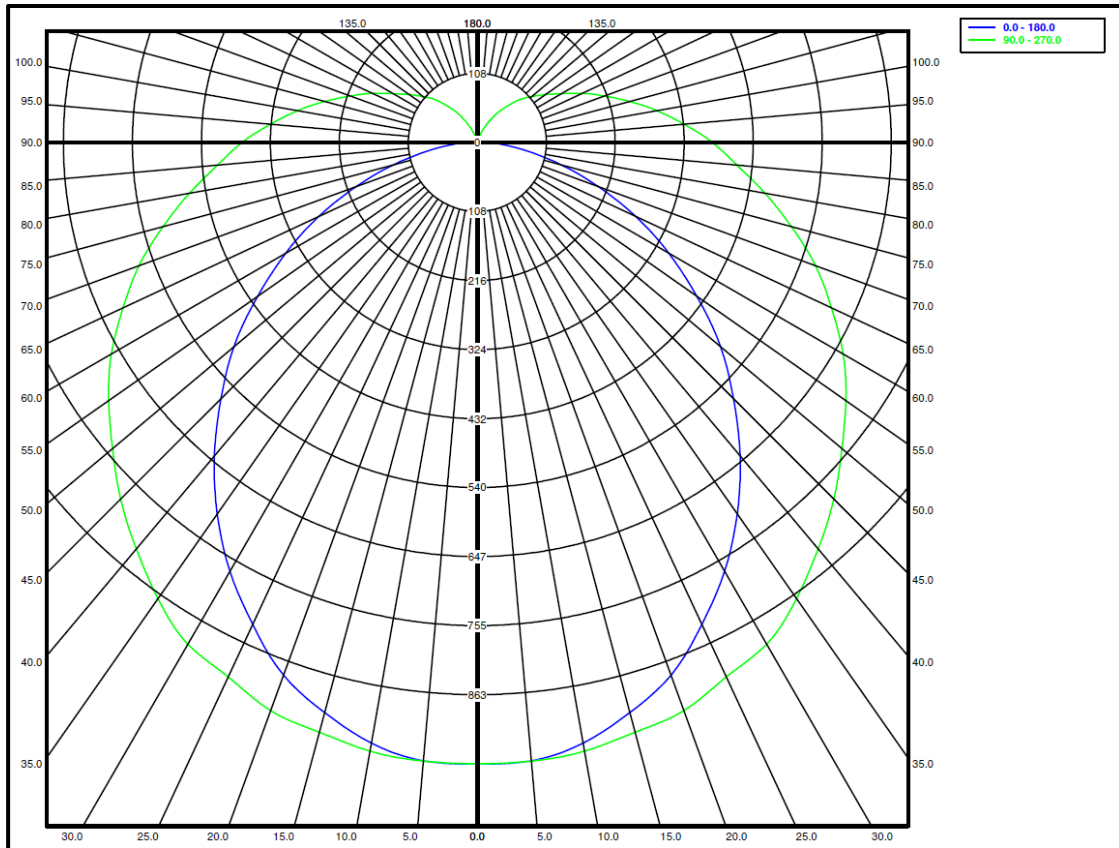
Image may differ slightly from actual unit

Summary of Results

System Power:	33.9W
Total Luminaire Output:	4026 Lumens
Luminaire Efficacy:	119 lm/W
Max Candela:	972.83 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	92.14	2.3%	90-100	214.22	5.3%
10-20	264.38	6.6%	100-110	149.47	3.7%
20-30	405.25	10.1%	110-120	100.11	2.5%
30-40	498.26	12.4%	120-130	64.47	1.6%
40-50	533.49	13.3%	130-140	37.88	0.9%
50-60	516.75	12.8%	140-150	17.58	0.4%
60-70	460.72	11.4%	150-160	5.36	0.1%
70-80	377.46	9.4%	160-170	0.68	0.0%
80-90	287.77	7.1%	170-180	0.01	0.0%
0-90	3436.22	85.4%	0-180	4026	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	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971	971
5	970	973	972	968	971	968	972	973	970	973	972	968	971	968	972	973
10	954	951	951	960	966	960	951	951	954	951	951	960	966	960	951	951
15	923	920	933	948	955	948	933	920	923	920	933	948	955	948	933	920
20	886	885	910	938	945	938	910	885	886	885	910	938	945	938	910	885
25	832	841	876	914	922	914	876	841	832	841	876	914	922	914	876	841
30	774	794	848	888	906	888	848	794	774	794	848	888	906	888	848	794
35	709	737	802	853	871	853	802	737	709	737	802	853	871	853	802	737
40	640	681	754	811	830	811	754	681	640	681	754	811	830	811	754	681
45	567	619	701	764	789	764	701	619	567	619	701	764	789	764	701	619
50	497	554	644	717	745	717	644	554	497	554	644	717	745	717	644	554
55	420	484	588	672	704	672	588	484	420	484	588	672	704	672	588	484
60	346	420	531	626	661	626	531	420	346	420	531	626	661	626	531	420
65	274	355	482	578	611	578	482	355	274	355	482	578	611	578	482	355
70	201	294	432	531	563	531	432	294	201	294	432	531	563	531	432	294
75	136	239	385	478	509	478	385	239	136	239	385	478	509	478	385	239
80	80	190	336	429	457	429	336	190	80	190	336	429	457	429	336	190
85	39	150	290	381	408	381	290	150	39	150	290	381	408	381	290	150
90	18	119	257	341	368	341	257	119	18	119	257	341	368	341	257	119
95	10	93	220	302	325	302	220	93	10	93	220	302	325	302	220	93
100	6	72	185	261	286	261	185	72	6	72	185	261	286	261	185	72
105	4	57	153	224	247	224	153	57	4	57	153	224	247	224	153	57
110	3	47	129	190	212	190	129	47	3	47	129	190	212	190	129	47
115	2	38	109	161	182	161	109	38	2	38	109	161	182	161	109	38
120	1	31	92	138	152	138	92	31	1	31	92	138	152	138	92	31
125	1	24	78	118	130	118	78	24	1	24	78	118	130	118	78	24
130	0	18	65	101	111	101	65	18	0	18	65	101	111	101	65	18
135	0	12	51	84	95	84	51	12	0	12	51	84	95	84	51	12
140	0	8	38	66	76	66	38	8	0	8	38	66	76	66	38	8
145	0	5	27	49	58	49	27	5	0	5	27	49	58	49	27	5
150	0	2	17	34	40	34	17	2	0	2	17	34	40	34	17	2
155	0	1	9	20	25	20	9	1	0	1	9	20	25	20	9	1
160	0	0	4	10	13	10	4	0	0	0	4	10	13	10	4	0
165	0	0	1	4	5	4	1	0	0	0	1	4	5	4	1	0
170	0	0	0	0	1	0	0	0	0	0	0	0	1	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	17969	17969	17969
45	14445	12023	12029
55	13041	10845	11230
65	11330	9928	10563
75	8878	9307	9915
85	6391	8802	9442

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	4670	4670	4670	4670	4469	4469	4469	4469	4147	4147	4147	3825	3825	3825	3583	3583	3583	3422
1	4147	3905	3664	3503	3945	3744	3543	3382	3462	3301	3181	3181	3060	2939	2939	2858	2778	2657
2	3704	3342	3020	2778	3543	3221	2939	2697	2979	2738	2536	2738	2536	2375	2536	2375	2255	2134
3	3382	2899	2536	2255	3221	2778	2456	2174	2577	2295	2094	2375	2174	1973	2214	2013	1852	1731
4	3060	2536	2174	1892	2939	2456	2094	1852	2295	1973	1731	2094	1852	1651	1973	1731	1570	1449
5	2818	2255	1892	1610	2697	2174	1812	1570	2013	1731	1490	1892	1610	1409	1771	1530	1369	1248
6	2577	2013	1651	1369	2456	1973	1610	1369	1812	1530	1288	1691	1449	1248	1570	1369	1168	1087
7	2416	1852	1490	1208	2295	1771	1449	1208	1651	1369	1127	1530	1288	1087	1449	1208	1047	966
8	2214	1651	1329	1087	2134	1610	1288	1047	1530	1208	1007	1409	1168	966	1329	1087	926	845
9	2094	1530	1208	966	1973	1490	1168	926	1409	1087	926	1288	1047	886	1208	1007	845	765
10	1932	1409	1087	886	1852	1369	1047	845	1288	1007	805	1208	966	805	1127	926	765	684

