



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'-D5-30K-80-FST-W

(White Housing – Semi-Direct – Frosted Lens)

Test Number

IES-P00037

Test Date

2017-02-21

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

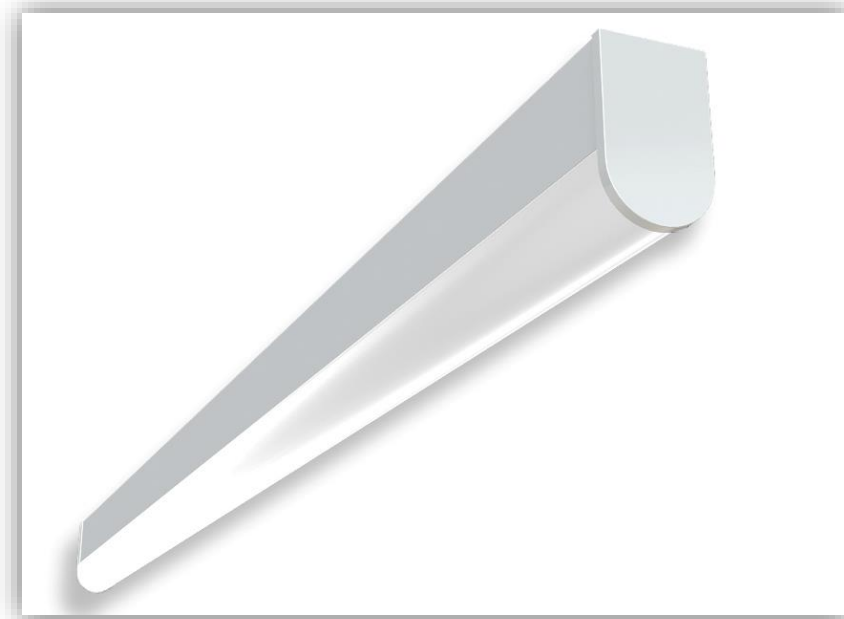


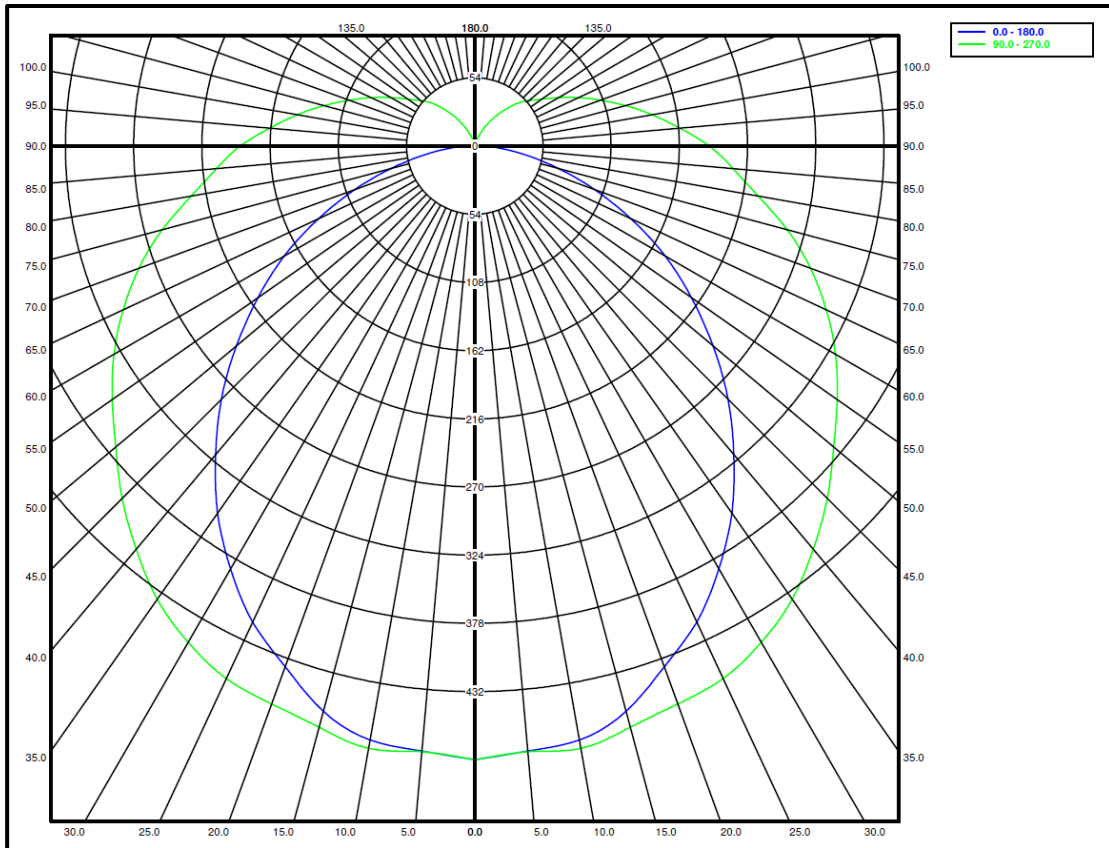
Image may differ slightly from actual unit

Summary of Results

System Power:	16.6W
Total Luminaire Output:	2016 Lumens
Luminaire Efficacy:	121 lm/W
Max Candela:	488.58 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	46.1	2.3%	90-100	107.06	5.3%
10-20	132.4	6.6%	100-110	74.94	3.7%
20-30	203.02	10.1%	110-120	50.07	2.5%
30-40	249.73	12.4%	120-130	32.24	1.6%
40-50	266.88	13.2%	130-140	19.02	0.9%
50-60	258.24	12.8%	140-150	8.8	0.4%
60-70	230.78	11.4%	150-160	2.67	0.1%
70-80	189.03	9.4%	160-170	0.35	0.0%
80-90	144.49	7.2%	170-180	0	0.0%
0-90	1720.67	85.4%	0-180	2015.82	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	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
5	481	484	487	489	482	489	487	484	481	484	487	489	482	489	487	484
10	478	475	477	481	485	481	477	475	478	475	477	481	485	481	477	475
15	464	463	469	473	477	473	469	463	464	463	469	473	477	473	469	463
20	439	444	455	469	471	469	455	444	439	444	455	469	471	469	455	444
25	416	423	440	459	466	459	440	423	416	423	440	459	466	459	440	423
30	387	398	423	444	454	444	423	398	387	398	423	444	454	444	423	398
35	355	370	402	428	439	428	402	370	355	370	402	428	439	428	402	370
40	319	341	379	406	417	406	379	341	319	341	379	406	417	406	379	341
45	284	308	352	382	395	382	352	308	284	308	352	382	395	382	352	308
50	247	277	322	359	371	359	322	277	247	277	322	359	371	359	322	277
55	210	243	294	336	351	336	294	243	210	243	294	336	351	336	294	243
60	175	210	266	312	330	312	266	210	175	210	266	312	330	312	266	210
65	137	178	241	291	307	291	241	178	137	178	241	291	307	291	241	178
70	102	147	216	266	283	266	216	147	102	147	216	266	283	266	216	147
75	69	120	192	240	256	240	192	120	69	120	192	240	256	240	192	120
80	41	96	168	215	228	215	168	96	41	96	168	215	228	215	168	96
85	20	75	147	191	206	191	147	75	20	75	147	191	206	191	147	75
90	9	60	128	171	186	171	128	60	9	60	128	171	186	171	128	60
95	5	46	110	150	163	150	110	46	5	46	110	150	163	150	110	46
100	3	36	93	130	143	130	93	36	3	36	93	130	143	130	93	36
105	2	29	77	112	124	112	77	29	2	29	77	112	124	112	77	29
110	1	24	64	95	106	95	64	24	1	24	64	95	106	95	64	24
115	1	19	55	81	91	81	55	19	1	19	55	81	91	81	55	19
120	0	15	46	68	77	68	46	15	0	15	46	68	77	68	46	15
125	0	12	40	58	65	58	40	12	0	12	40	58	65	58	40	12
130	0	9	33	51	56	51	33	9	0	9	33	51	56	51	33	9
135	0	6	26	42	48	42	26	6	0	6	26	42	48	42	26	6
140	0	4	19	33	38	33	19	4	0	4	19	33	38	33	19	4
145	0	2	13	25	29	25	13	2	0	2	13	25	29	25	13	2
150	0	1	8	17	20	17	8	1	0	1	8	17	20	17	8	1
155	0	0	5	10	13	10	5	0	0	0	5	10	13	10	5	0
160	0	0	2	5	7	5	2	0	0	0	2	5	7	5	2	0
165	0	0	0	2	2	2	0	0	0	0	0	2	2	2	0	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	8998	8998	8998
45	7234	6034	6023
55	6521	5427	5592
65	5667	4961	5311
75	4465	4633	4995
85	3260	4456	4756

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	2338	2338	2338	2338	2238	2238	2238	2238	2076	2076	2076	1915	1915	1915	1794	1794	1794	1713
1	2076	1955	1834	1754	1976	1875	1774	1693	1734	1653	1572	1592	1532	1472	1472	1431	1391	1330
2	1855	1673	1512	1391	1774	1613	1472	1351	1492	1371	1270	1371	1270	1189	1270	1189	1129	1068
3	1693	1451	1270	1129	1613	1391	1230	1089	1290	1149	1048	1189	1089	988	1109	1008	927	867
4	1532	1270	1089	947	1472	1230	1048	927	1149	988	867	1048	927	826	988	867	786	726
5	1411	1129	947	806	1351	1089	907	786	1008	867	746	947	806	706	887	766	685	625
6	1290	1008	826	685	1230	988	806	685	907	766	645	847	726	625	786	685	585	544
7	1209	927	746	605	1149	887	726	605	826	685	564	766	645	544	726	605	524	484
8	1109	826	665	544	1068	806	645	524	766	605	504	706	585	484	665	544	464	423
9	1048	766	605	484	988	746	585	464	706	544	464	645	524	443	605	504	423	383
10	968	706	544	443	927	685	524	423	645	504	403	605	484	403	564	464	383	343

