

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CV5-L-4'-I10-30K-80-OPL-0°
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00055

Test Date

2017-02-23

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	White enamel steel housing / reflector, Indirect w/ Opal Lens
Lamp:	LED (3000K, 80+ CRI)
Installation:	Cove Mounted
Luminous Length:	48.00 in
Luminous Width:	3.63 in
Luminous Height:	0.88 in



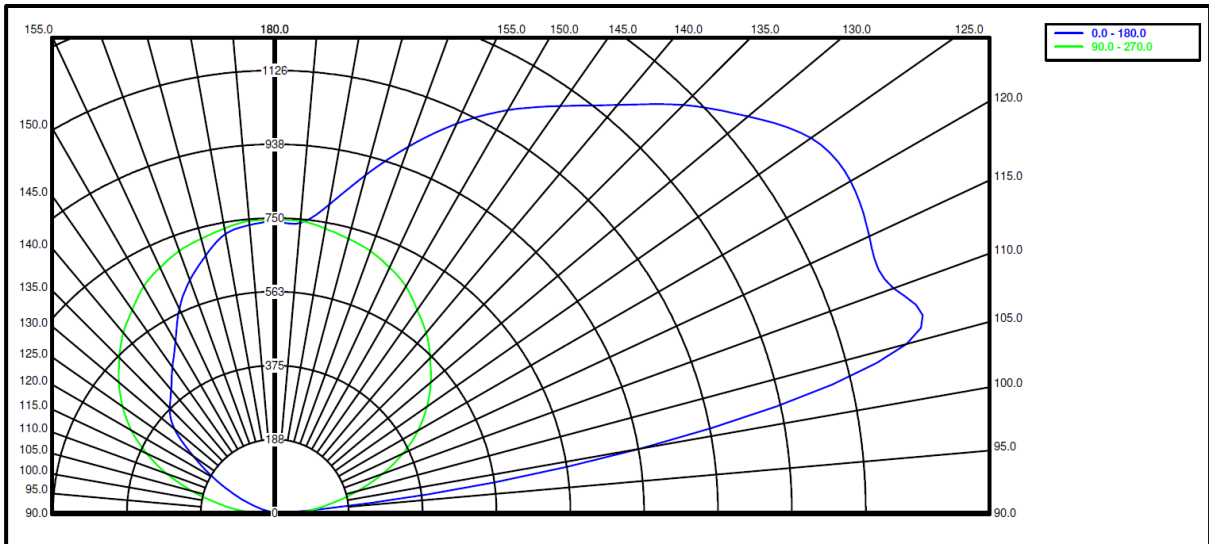
Image may differ slightly from actual unit

Summary of Results

System Power:	41.9W
Total Luminaire Output:	3812 Lumens
Luminaire Efficacy:	91 lm/W
Max Candela:	1688.60 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	0	0.0%	90-100	195.19	5.1%
10-20	0	0.0%	100-110	571	15.0%
20-30	0.02	0.0%	110-120	655.22	17.2%
30-40	0.16	0.0%	120-130	651.32	17.1%
40-50	0.68	0.0%	130-140	578.19	15.2%
50-60	1.93	0.1%	140-150	475.15	12.5%
60-70	4.77	0.1%	150-160	352.64	9.2%
70-80	11.6	0.3%	160-170	212.92	5.6%
80-90	30.52	0.8%	170-180	71.1	1.9%
0-90	49.68	1.3%	0-180	3812.41	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0
40	0	0	2	1	0	0	0	0	0	0	0	0	0	1	2	0
45	0	1	4	2	0	0	0	0	0	0	0	0	0	2	4	1
50	0	2	6	3	0	0	0	0	0	0	0	0	0	3	6	2
55	0	3	8	5	0	0	0	0	0	0	0	0	0	5	8	3
60	0	5	11	7	1	0	0	0	0	0	0	0	1	7	11	5
65	0	8	16	11	1	0	0	0	0	0	0	0	1	11	16	8
70	0	12	24	15	2	0	1	1	0	1	1	0	2	15	24	12
75	0	17	35	25	3	1	2	1	0	1	2	1	3	25	35	17
80	9	26	48	39	5	2	4	1	0	1	4	2	5	39	48	26
85	25	46	69	63	12	5	5	2	0	2	5	5	12	63	69	46
90	38	61	91	99	44	10	7	3	0	3	7	10	44	99	91	61
95	132	174	308	385	94	20	9	3	0	3	9	20	94	385	308	174
100	944	1020	990	569	151	59	19	4	0	4	19	59	151	569	990	1020
105	1661	1519	1119	643	218	119	61	27	16	27	61	119	218	643	1119	1519
110	1672	1525	1166	695	291	182	118	77	60	77	118	182	291	695	1166	1525
115	1666	1545	1221	716	359	244	187	132	116	132	187	244	359	716	1221	1545
120	1689	1572	1208	735	420	300	256	201	180	201	256	300	420	735	1208	1572
125	1663	1532	1172	757	471	360	313	276	252	276	313	360	471	757	1172	1532
130	1569	1447	1131	775	517	421	353	342	332	342	353	421	517	775	1131	1447
135	1468	1353	1092	788	558	482	400	381	376	381	400	482	558	788	1092	1353
140	1355	1267	1066	789	598	536	453	418	409	418	453	536	598	789	1066	1267
145	1264	1199	1025	781	630	583	512	465	453	465	512	583	630	781	1025	1199
150	1183	1121	970	769	665	629	570	520	504	520	570	629	665	769	970	1121
155	1093	1050	923	749	689	667	617	586	573	586	617	667	689	749	923	1050
160	992	955	856	737	710	698	663	631	630	631	663	698	710	737	856	955
165	890	865	798	730	723	721	699	680	679	680	699	721	723	730	798	865
170	797	781	747	738	735	741	736	721	721	721	736	741	735	738	747	781
175	741	747	744	741	746	751	744	748	736	748	744	751	746	741	744	747
180	745	745	745	745	745	745	745	745	745	745	745	745	745	745	745	745

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	40	1
55	0	97	6
65	0	242	21
75	4	713	81
85	680	2266	1006

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	3660	3660	3660	3660	3126	3126	3126	3126	2135	2135	2135	1258	1258	1258	419	419	419	38
1	3317	3126	3012	2859	2821	2707	2592	2478	1830	1792	1716	1067	1029	991	343	343	343	0
2	3012	2745	2516	2326	2554	2364	2173	2021	1601	1487	1411	953	877	839	305	305	267	0
3	2745	2402	2135	1944	2326	2059	1830	1677	1411	1296	1182	839	762	686	267	267	229	0
4	2478	2097	1830	1639	2135	1830	1601	1411	1258	1106	991	724	648	572	229	229	191	0
5	2287	1868	1601	1372	1944	1601	1372	1182	1106	953	839	648	572	496	229	191	152	0
6	2097	1677	1372	1182	1792	1449	1182	1029	991	839	724	572	496	419	191	152	152	0
7	1906	1487	1220	1029	1639	1296	1067	877	877	724	610	534	419	381	191	152	114	0
8	1754	1334	1067	877	1525	1144	915	762	801	648	534	457	381	343	152	114	114	0
9	1639	1220	953	762	1411	1029	839	686	724	572	496	419	343	267	152	114	114	0
10	1525	1106	839	686	1296	953	724	610	648	534	419	381	305	267	114	114	76	0

