

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CV5-L-4'-I7-30K-80-OPL-20°
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00054

Test Date

2017-02-21

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



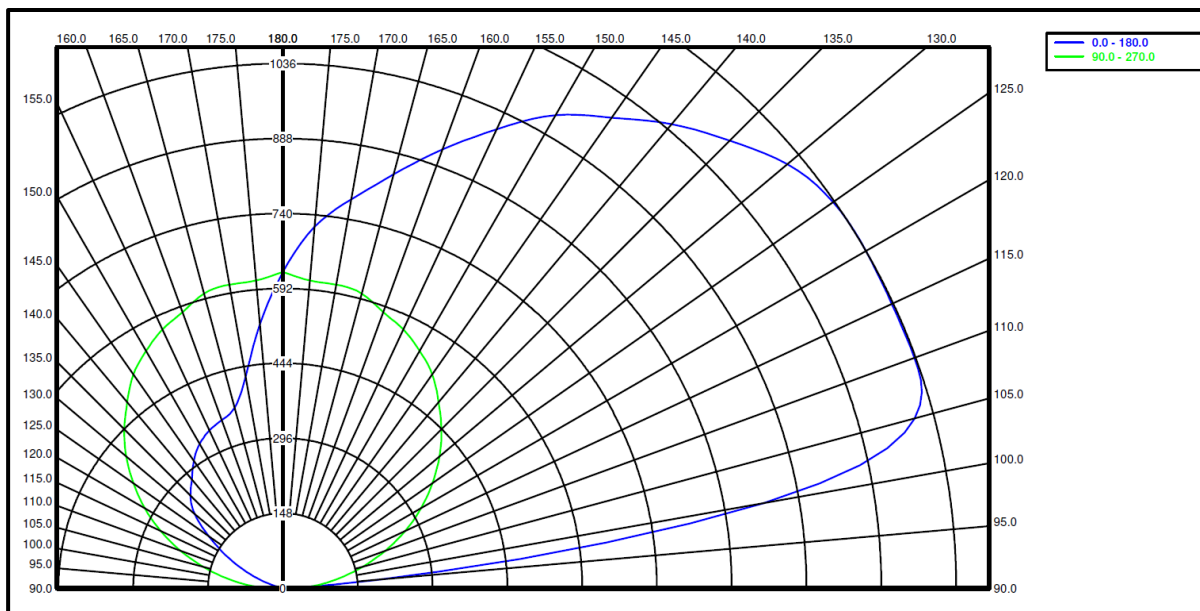
Image may differ slightly from actual unit

Summary of Results

System Power:	30.8W
Total Luminaire Output:	3037 Lumens
Luminaire Efficacy:	98 lm/W
Max Candela:	1332.59 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	178.02	5.9%
10-20	0	0.0%	100-110	450.85	14.8%
20-30	0	0.0%	110-120	507.05	16.7%
30-40	0.02	0.0%	120-130	512.23	16.9%
40-50	0.18	0.0%	130-140	465.63	15.3%
50-60	0.81	0.0%	140-150	384.22	12.7%
60-70	2.57	0.1%	150-160	280.86	9.2%
70-80	6.7	0.2%	160-170	170.38	5.6%
80-90	19.06	0.6%	170-180	58.6	1.9%
0-90	29.34	1.0%	0-180	3037.18	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
50	0	1	2	0	0	0	0	0	0	0	0	0	0	0	2	1
55	0	2	4	1	0	0	0	0	0	0	0	0	0	1	4	2
60	0	3	6	2	0	0	0	0	0	0	0	0	0	2	6	3
65	0	5	10	4	0	0	0	0	0	0	0	0	0	4	10	5
70	0	7	15	8	0	0	1	0	0	0	1	0	0	8	15	7
75	0	10	20	14	1	1	1	1	0	1	1	1	1	14	20	10
80	5	15	27	24	2	1	2	1	0	1	2	1	2	24	27	15
85	13	26	39	37	7	4	3	1	0	1	3	4	7	37	39	26
90	28	43	63	72	30	7	5	2	0	2	5	7	30	72	63	43
95	185	233	344	319	71	13	6	2	0	2	6	13	71	319	344	233
100	966	958	797	428	114	42	13	2	0	2	13	42	114	428	797	958
105	1295	1189	868	478	164	82	44	21	12	21	44	82	164	478	868	1189
110	1330	1216	899	530	215	124	86	56	47	56	86	124	215	530	899	1216
115	1330	1217	938	569	267	162	132	98	87	98	132	162	267	569	938	1217
120	1333	1232	967	600	315	195	177	143	131	143	177	195	315	600	967	1232
125	1330	1235	971	636	361	226	214	193	180	193	214	226	361	636	971	1235
130	1303	1211	963	664	404	254	242	235	228	235	242	254	404	664	963	1211
135	1250	1171	950	685	444	280	270	262	258	262	270	280	444	685	950	1171
140	1197	1126	936	702	479	307	297	287	280	287	297	307	479	702	936	1126
145	1135	1080	917	709	515	333	317	313	307	313	317	333	515	709	917	1080
150	1079	1019	880	718	541	363	332	332	329	332	332	363	541	718	880	1019
155	1000	960	849	717	564	403	346	345	344	345	346	403	564	717	849	960
160	922	890	814	709	580	451	365	358	353	358	365	451	580	709	814	890
165	846	827	777	696	603	495	414	373	369	373	414	495	603	696	777	827
170	780	770	731	671	609	546	479	441	425	441	479	546	609	671	731	770
175	717	697	683	654	610	587	552	533	522	533	552	587	610	654	683	697
180	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	10	1
55	0	43	1
65	0	144	3
75	2	413	20
85	359	1296	582

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	2885	2885	2885	2885	2490	2490	2490	2490	1701	1701	1701	1002	1002	1002	334	334	334	30
1	2642	2490	2399	2278	2248	2156	2065	1974	1458	1427	1367	850	820	790	273	273	273	0
2	2399	2187	2005	1853	2035	1883	1731	1610	1276	1185	1124	759	699	668	243	243	213	0
3	2187	1913	1701	1549	1853	1640	1458	1336	1124	1033	942	668	607	547	213	213	182	0
4	1974	1670	1458	1306	1701	1458	1276	1124	1002	881	790	577	516	456	182	182	152	0
5	1822	1488	1276	1093	1549	1276	1093	942	881	759	668	516	456	395	182	152	121	0
6	1670	1336	1093	942	1427	1154	942	820	790	668	577	456	395	334	152	121	121	0
7	1519	1185	972	820	1306	1033	850	699	699	577	486	425	334	304	152	121	91	0
8	1397	1063	850	699	1215	911	729	607	638	516	425	364	304	273	121	91	91	0
9	1306	972	759	607	1124	820	668	547	577	456	395	334	273	243	121	91	91	0
10	1215	881	668	547	1033	759	577	486	516	425	334	304	243	213	91	91	61	0

