

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-5°
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00056

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



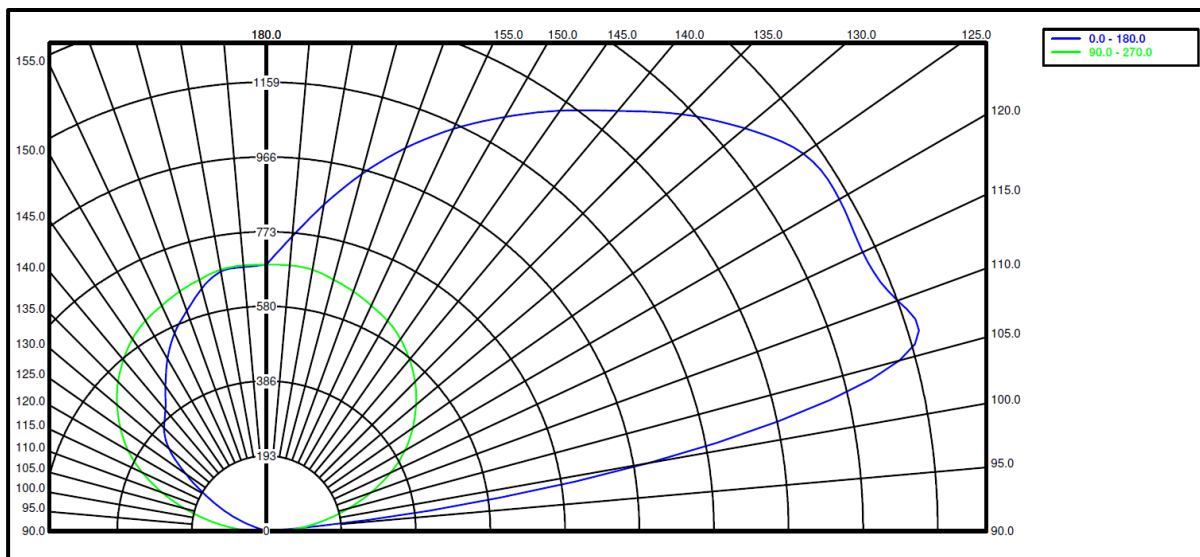
Image may differ slightly from actual unit

Summary of Results

System Power:	41.9W
Total Luminaire Output:	3874 Lumens
Luminaire Efficacy:	92 lm/W
Max Candela:	1739.11 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	202.48	5.2%
10-20	0	0.0%	100-110	584.47	15.1%
20-30	0.01	0.0%	110-120	665.62	17.2%
30-40	0.12	0.0%	120-130	662.47	17.1%
40-50	0.55	0.0%	130-140	590.41	15.2%
50-60	1.72	0.0%	140-150	484.32	12.5%
60-70	4.51	0.1%	150-160	356.41	9.2%
70-80	11.14	0.3%	160-170	212.74	5.5%
80-90	29.15	0.8%	170-180	68.09	1.8%
0-90	47.2	1.2%	0-180	3874.21	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	0	0	0	0	0	0	0	0	0	0	0	1	0
40	0	0	2	1	0	0	0	0	0	0	0	0	0	1	2	0
45	0	1	3	1	0	0	0	0	0	0	0	0	0	1	3	1
50	0	2	5	2	0	0	0	0	0	0	0	0	0	2	5	2
55	0	3	7	4	0	0	0	0	0	0	0	0	0	4	7	3
60	0	6	11	6	0	0	0	0	0	0	0	0	0	6	11	6
65	0	8	16	10	1	0	0	0	0	0	0	0	1	10	16	8
70	0	12	23	15	1	0	1	1	0	1	1	0	1	15	23	12
75	0	16	34	24	2	1	2	1	0	1	2	1	2	24	34	16
80	9	25	46	38	4	2	3	1	0	1	3	2	4	38	46	25
85	24	43	66	60	11	5	5	2	0	2	5	5	11	60	66	43
90	34	57	87	97	42	11	7	2	0	2	7	11	42	97	87	57
95	145	191	329	394	95	20	9	3	0	3	9	20	95	394	329	191
100	1005	1069	1019	578	152	60	18	3	0	3	18	60	152	578	1019	1069
105	1698	1565	1143	648	218	118	62	27	16	27	62	118	218	648	1143	1565
110	1739	1570	1185	697	288	181	119	76	63	76	119	181	288	697	1185	1570
115	1705	1577	1236	731	355	241	186	134	118	134	186	241	355	731	1236	1577
120	1714	1603	1238	757	414	297	257	201	182	201	257	297	414	757	1238	1603
125	1699	1566	1207	780	462	355	314	273	255	273	314	355	462	780	1207	1566
130	1618	1499	1168	802	505	416	355	340	330	340	355	416	505	802	1168	1499
135	1522	1411	1136	816	544	467	401	377	375	377	401	467	544	816	1136	1411
140	1417	1326	1112	822	576	518	452	417	407	417	452	518	576	822	1112	1326
145	1325	1253	1070	820	605	560	506	468	456	468	506	560	605	820	1070	1253
150	1235	1178	1023	812	627	598	556	524	513	524	556	598	627	812	1023	1178
155	1146	1102	975	800	642	630	594	570	563	570	594	630	642	800	975	1102
160	1053	1018	920	782	658	652	635	612	604	612	635	652	658	782	920	1018
165	955	933	854	753	672	670	666	658	648	658	666	670	672	753	854	933
170	856	844	784	726	685	680	685	683	680	683	685	680	685	726	784	844
175	764	741	723	695	689	688	691	695	684	695	691	688	689	695	723	741
180	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688	688

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	33	1
55	0	90	3
65	1	242	12
75	4	687	70
85	648	2152	954

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	3719	3719	3719	3719	3177	3177	3177	3177	2170	2170	2170	1278	1278	1278	426	426	426	39
1	3371	3177	3061	2906	2867	2751	2634	2518	1860	1821	1743	1085	1046	1007	349	349	349	0
2	3061	2789	2557	2363	2596	2402	2208	2053	1627	1511	1433	969	891	852	310	310	271	0
3	2789	2441	2170	1976	2363	2092	1860	1705	1433	1317	1201	852	775	697	271	271	232	0
4	2518	2131	1860	1666	2170	1860	1627	1433	1278	1124	1007	736	659	581	232	232	194	0
5	2325	1898	1627	1395	1976	1627	1395	1201	1124	969	852	659	581	504	232	194	155	0
6	2131	1705	1395	1201	1821	1472	1201	1046	1007	852	736	581	504	426	194	155	155	0
7	1937	1511	1240	1046	1666	1317	1085	891	891	736	620	542	426	387	194	155	116	0
8	1782	1356	1085	891	1550	1162	930	775	814	659	542	465	387	349	155	116	116	0
9	1666	1240	969	775	1433	1046	852	697	736	581	504	426	349	310	155	116	116	0
10	1550	1124	852	697	1317	969	736	620	659	542	426	387	310	271	116	116	77	0

