

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number
CV5-L-4'-I5-30K-80-OPL-20°
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00049

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



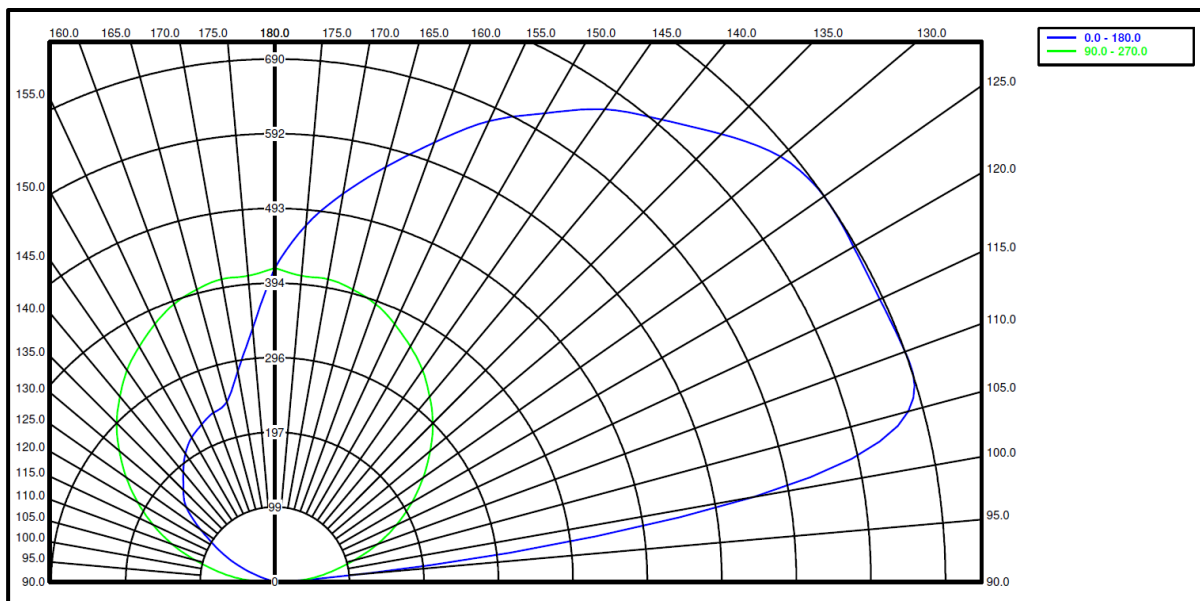
Image may differ slightly from actual unit

Summary of Results

System Power:	20.2W
Total Luminaire Output:	2023 Lumens
Luminaire Efficacy:	100 lm/W
Max Candela:	887.28 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	118.6	5.9%
10-20	0	0.0%	100-110	300.81	14.9%
20-30	0	0.0%	110-120	337.73	16.7%
30-40	0.02	0.0%	120-130	340.98	16.9%
40-50	0.12	0.0%	130-140	310.25	15.3%
50-60	0.53	0.0%	140-150	255.66	12.6%
60-70	1.7	0.1%	150-160	187.18	9.3%
70-80	4.44	0.2%	160-170	113.43	5.6%
80-90	12.61	0.6%	170-180	38.79	1.9%
0-90	19.42	1.0%	0-180	2022.85	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	1	0	0	0	0	0	0	0	0	0	0	0	1	1
55	0	1	2	1	0	0	0	0	0	0	0	0	0	1	2	1
60	0	2	4	1	0	0	0	0	0	0	0	0	0	1	4	2
65	0	3	6	3	0	0	0	0	0	0	0	0	0	3	6	3
70	0	5	9	5	0	0	0	0	0	0	0	0	0	5	9	5
75	0	6	14	9	0	0	1	0	0	0	1	0	0	9	14	6
80	3	10	18	16	1	1	2	1	0	1	2	1	1	16	18	10
85	9	17	26	24	5	2	2	1	0	1	2	2	5	24	26	17
90	18	28	42	48	20	4	3	1	0	1	3	4	20	48	42	28
95	122	155	231	212	48	9	4	1	0	1	4	9	48	212	231	155
100	643	638	531	284	76	28	9	2	0	2	9	28	76	284	531	638
105	867	792	581	321	108	55	29	13	8	13	29	55	108	321	581	792
110	887	809	601	353	145	83	57	37	31	37	57	83	145	353	601	809
115	883	813	624	378	178	108	87	65	59	65	87	108	178	378	624	813
120	884	817	645	402	209	130	118	95	88	95	118	130	209	402	645	817
125	887	823	646	421	240	151	142	128	119	128	142	151	240	421	646	823
130	873	807	643	442	268	168	162	156	153	156	162	168	268	442	643	807
135	836	780	635	456	296	186	181	174	171	174	181	186	296	456	635	780
140	797	750	624	467	319	205	198	191	188	191	198	205	319	467	624	750
145	761	716	609	473	341	221	210	208	206	208	210	221	341	473	609	716
150	714	681	589	480	358	242	220	222	220	222	220	242	358	480	589	681
155	671	640	566	477	375	269	230	230	229	230	230	269	375	477	566	640
160	617	591	542	471	390	299	245	238	237	238	245	299	390	471	542	591
165	567	552	517	467	399	328	271	249	246	249	271	328	399	467	517	552
170	520	510	489	454	406	360	315	290	282	290	315	360	406	454	489	510
175	472	462	452	436	405	385	362	346	336	346	362	385	405	436	452	462
180	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	7	0
55	0	28	1
65	0	97	3
75	1	284	15
85	234	867	399

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	1922	1922	1922	1922	1659	1659	1659	1659	1133	1133	1133	668	668	668	223	223	223	20
1	1760	1659	1598	1517	1497	1436	1376	1315	971	951	910	566	546	526	182	182	182	0
2	1598	1456	1335	1234	1355	1254	1153	1072	850	789	748	506	465	445	162	162	142	0
3	1456	1274	1133	1032	1234	1092	971	890	748	688	627	445	405	364	142	142	121	0
4	1315	1113	971	870	1133	971	850	748	668	587	526	384	344	303	121	121	101	0
5	1214	991	850	728	1032	850	728	627	587	506	445	344	303	263	121	101	81	0
6	1113	890	728	627	951	769	627	546	526	445	384	303	263	223	101	81	81	0
7	1011	789	647	546	870	688	566	465	465	384	324	283	223	202	101	81	61	0
8	931	708	566	465	809	607	485	405	425	344	283	243	202	182	81	61	61	0
9	870	647	506	405	748	546	445	364	384	303	263	223	182	162	81	61	61	0
10	809	587	445	364	688	506	384	324	344	283	223	202	162	142	61	61	40	0

Cone of Light		
Mtg Height	Light Level	Beam Diameter
6 ft	0 fc	0 ft
8 ft	0 fc	0 ft
10 ft	0 fc	0 ft
12 ft	0 fc	0 ft
15 ft	0 fc	0 ft

