

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-0°
(White Housing – Indirect – Opal Lens)

Test Number

IES-P00050

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



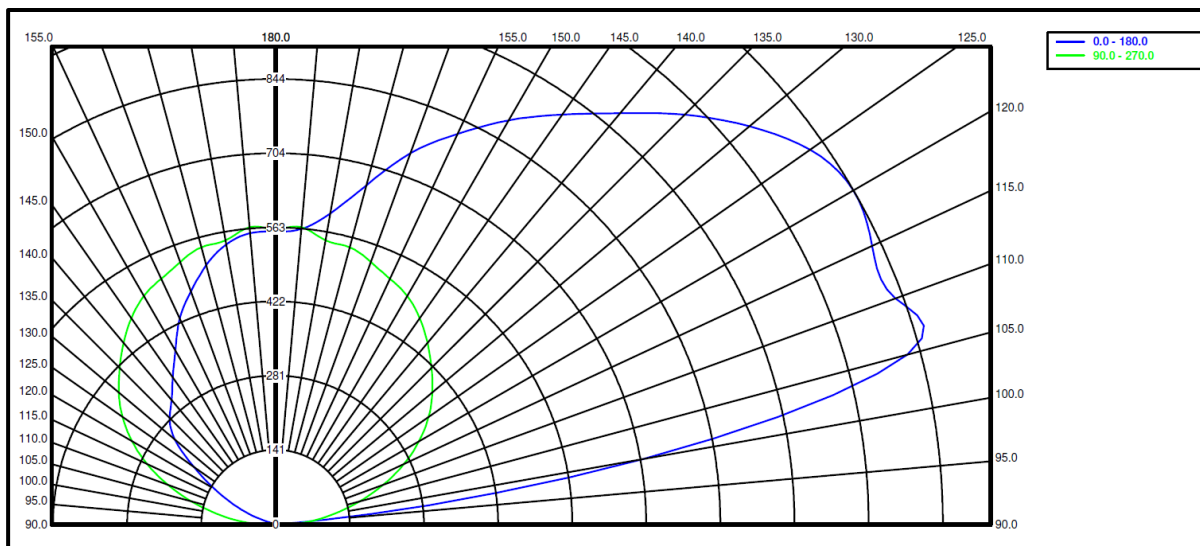
Image may differ slightly from actual unit

Summary of Results

System Power:	30.8W
Total Luminaire Output:	2859 Lumens
Luminaire Efficacy:	93 lm/W
Max Candela:	1266.64 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	146.14	5.1%
10-20	0	0.0%	100-110	428.58	15.0%
20-30	0.01	0.0%	110-120	491.31	17.2%
30-40	0.12	0.0%	120-130	487.99	17.1%
40-50	0.5	0.0%	130-140	433.5	15.2%
50-60	1.45	0.1%	140-150	356.4	12.5%
60-70	3.57	0.1%	150-160	264.41	9.2%
70-80	8.7	0.3%	160-170	159.78	5.6%
80-90	23	0.8%	170-180	53.21	1.9%
0-90	37.35	1.3%	0-180	2858.67	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	1	1	0	0	0	0	0	0	0	0	0	1	1	0
45	0	1	3	1	0	0	0	0	0	0	0	0	0	1	3	1
50	0	1	4	2	0	0	0	0	0	0	0	0	0	2	4	1
55	0	2	6	3	0	0	0	0	0	0	0	0	0	3	6	2
60	0	4	8	5	0	0	0	0	0	0	0	0	0	5	8	4
65	0	6	12	8	1	0	0	0	0	0	0	0	1	8	12	6
70	0	9	18	12	1	0	1	0	0	0	1	0	1	12	18	9
75	0	13	26	18	2	0	1	1	0	1	1	0	2	18	26	13
80	6	20	36	30	4	1	3	1	0	1	3	1	4	30	36	20
85	19	35	52	48	10	4	4	1	0	1	4	4	10	48	52	35
90	28	46	68	76	33	8	5	2	0	2	5	8	33	76	68	46
95	99	130	227	289	70	15	7	2	0	2	7	15	70	289	227	130
100	707	761	745	429	114	45	14	3	0	3	14	45	114	429	745	761
105	1242	1139	841	485	165	89	46	20	12	20	46	89	165	485	841	1139
110	1252	1144	883	520	217	137	88	56	47	56	88	137	217	520	883	1144
115	1250	1159	916	537	269	181	139	100	87	100	139	181	269	537	916	1159
120	1267	1176	908	552	314	226	193	150	134	150	193	226	314	552	908	1176
125	1239	1145	876	567	355	270	235	207	190	207	235	270	355	567	876	1145
130	1174	1084	847	584	388	316	267	257	249	257	267	316	388	584	847	1084
135	1098	1017	817	589	418	361	301	283	284	283	301	361	418	589	817	1017
140	1018	951	798	590	449	403	340	314	307	314	340	403	449	590	798	951
145	949	895	770	583	477	440	385	348	340	348	385	440	477	583	770	895
150	885	843	731	575	500	471	424	391	380	391	424	471	500	575	731	843
155	817	784	691	564	514	503	464	439	430	439	464	503	514	564	691	784
160	749	718	645	554	529	520	496	476	469	476	496	520	529	554	645	718
165	665	649	597	552	544	545	524	511	509	511	524	545	544	552	597	649
170	599	585	564	551	547	555	545	541	539	541	545	555	547	551	564	585
175	562	564	547	555	565	559	562	556	554	556	562	559	565	555	547	564
180	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	29	1
55	0	75	4
65	0	185	15
75	3	528	64
85	511	1698	812

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	2744	2744	2744	2744	2344	2344	2344	2344	1601	1601	1601	943	943	943	314	314	314	29
1	2487	2344	2258	2144	2115	2030	1944	1858	1372	1344	1286	800	772	743	257	257	257	0
2	2258	2058	1887	1744	1915	1772	1629	1515	1201	1115	1058	715	657	629	229	229	200	0
3	2058	1801	1601	1458	1744	1544	1372	1258	1058	972	886	629	572	515	200	200	172	0
4	1858	1572	1372	1229	1601	1372	1201	1058	943	829	743	543	486	429	172	172	143	0
5	1715	1401	1201	1029	1458	1201	1029	886	829	715	629	486	429	372	172	143	114	0
6	1572	1258	1029	886	1344	1086	886	772	743	629	543	429	372	314	143	114	114	0
7	1429	1115	915	772	1229	972	800	657	657	543	457	400	314	286	143	114	86	0
8	1315	1001	800	657	1143	858	686	572	600	486	400	343	286	257	114	86	86	0
9	1229	915	715	572	1058	772	629	515	543	429	372	314	257	200	114	86	86	0
10	1143	829	629	515	972	715	543	457	486	400	314	286	229	200	86	86	57	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

