

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

Test Number

IES-P00045

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



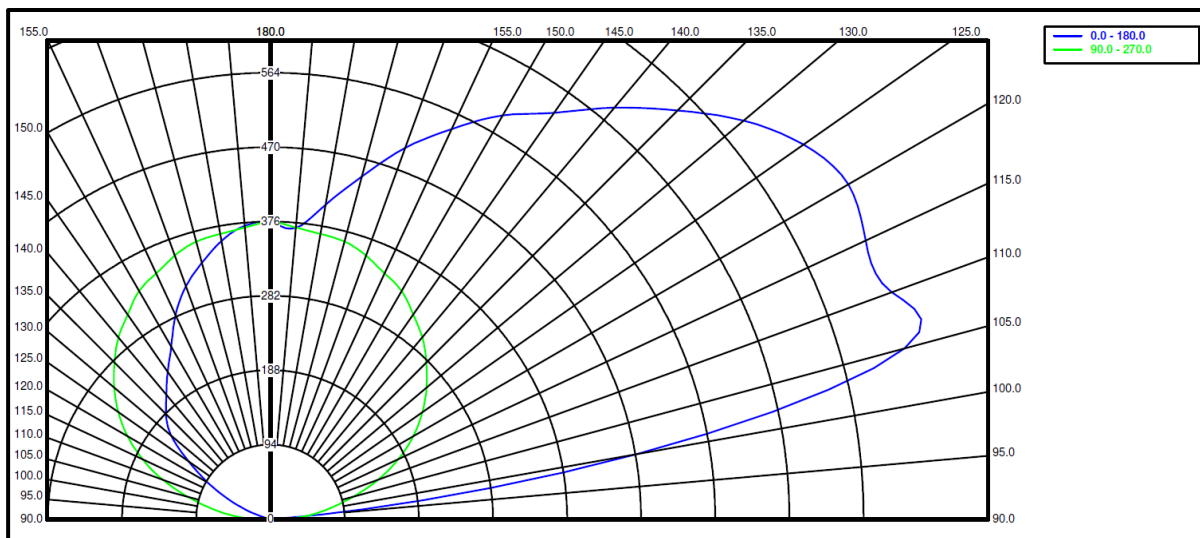
Image may differ slightly from actual unit

Summary of Results

System Power:	20.2W
Total Luminaire Output:	1904 Lumens
Luminaire Efficacy:	94 lm/W
Max Candela:	845.81 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	97.51	5.1%
10-20	0	0.0%	100-110	285.59	15.0%
20-30	0.01	0.0%	110-120	327.31	17.2%
30-40	0.09	0.0%	120-130	325.08	17.1%
40-50	0.35	0.0%	130-140	288.58	15.2%
50-60	0.95	0.0%	140-150	236.9	12.4%
60-70	2.39	0.1%	150-160	176.2	9.3%
70-80	5.82	0.3%	160-170	106.56	5.6%
80-90	15.16	0.8%	170-180	35.45	1.9%
0-90	24.77	1.3%	0-180	1903.95	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	1	1	0	0	0	0	0	0	0	0	0	1	1	0
45	0	0	2	1	0	0	0	0	0	0	0	0	0	1	2	0
50	0	1	3	1	0	0	0	0	0	0	0	0	0	1	3	1
55	0	2	4	2	0	0	0	0	0	0	0	0	0	2	4	2
60	0	3	6	4	0	0	0	0	0	0	0	0	0	4	6	3
65	0	4	8	5	0	0	0	0	0	0	0	0	0	5	8	4
70	0	6	12	8	1	0	0	0	0	0	0	0	1	8	12	6
75	0	9	17	12	1	0	1	1	0	1	1	0	1	12	17	9
80	4	13	24	20	2	1	2	1	0	1	2	1	2	20	24	13
85	12	23	34	31	6	3	3	1	0	1	3	3	6	31	34	23
90	18	31	46	49	21	6	3	1	0	1	3	6	21	49	46	31
95	65	88	152	192	48	10	4	1	0	1	4	10	48	192	152	88
100	471	510	495	286	75	30	9	2	0	2	9	30	75	286	495	510
105	832	760	559	323	109	59	30	13	8	13	30	59	109	323	559	760
110	838	762	583	347	145	91	60	38	31	38	60	91	145	347	583	762
115	833	774	608	357	179	120	93	66	58	66	93	120	179	357	608	774
120	846	786	605	367	209	150	129	100	91	100	129	150	209	367	605	786
125	825	764	585	379	235	180	156	136	126	136	156	180	235	379	585	764
130	783	723	563	387	258	211	177	170	164	170	177	211	258	387	563	723
135	730	677	546	393	279	240	199	190	187	190	199	240	279	393	546	677
140	679	633	530	392	299	267	227	208	205	208	227	267	299	392	530	633
145	627	598	508	389	315	291	255	231	227	231	255	291	315	389	508	598
150	589	562	487	383	333	314	284	261	251	261	284	314	333	383	487	562
155	544	524	463	375	342	332	307	292	284	292	307	332	342	375	463	524
160	499	480	430	370	354	349	331	318	313	318	331	349	354	370	430	480
165	448	435	399	367	363	362	349	340	335	340	349	362	363	367	399	435
170	404	390	372	365	366	368	367	360	357	360	367	368	366	365	372	390
175	369	367	369	369	370	372	375	369	372	369	375	372	370	369	369	367
180	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377	377

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

ANGLES	0-Deg	45-Deg	90-Deg
0	0	0	0
45	0	21	1
55	0	49	3
65	0	124	9
75	2	351	42
85	337	1124	506

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	1828	1828	1828	1828	1561	1561	1561	1561	1066	1066	1066	628	628	628	209	209	209	19
1	1656	1561	1504	1428	1409	1352	1295	1238	914	895	857	533	514	495	171	171	171	0
2	1504	1371	1257	1161	1276	1180	1085	1009	800	743	704	476	438	419	152	152	133	0
3	1371	1199	1066	971	1161	1028	914	838	704	647	590	419	381	343	133	133	114	0
4	1238	1047	914	819	1066	914	800	704	628	552	495	362	324	286	114	114	95	0
5	1142	933	800	685	971	800	685	590	552	476	419	324	286	248	114	95	76	0
6	1047	838	685	590	895	724	590	514	495	419	362	286	248	209	95	76	76	0
7	952	743	609	514	819	647	533	438	438	362	305	267	209	190	95	76	57	0
8	876	666	533	438	762	571	457	381	400	324	267	228	190	171	76	57	57	0
9	819	609	476	381	704	514	419	343	362	286	248	209	171	133	76	57	57	0
10	762	552	419	343	647	476	362	305	324	267	209	190	152	133	57	57	38	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

