



PICASSO LIGHTING INDUSTRIES, LLC
46 Sellers Street, Kearny, NJ 07032
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

46 Sellers St.
Kearny, NJ 07032

Photopia Photometric Analysis & Optical Design

Catalog Number

APX-PR-4x6-D7-30-80-OW

APEX 4'x6" - Sound Absorbing Panels - Direct - Opal White Lens

Test Number

IES-P00270

Test Date

Mon Oct 14 10:52:07 2019

The results contained in this report pertain only to the tested sample.
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APX-PR-4x6-D7-30-80-OW
APEX 4'x6" - Sound Absorbing Panels - Direct - Opal White Lens
LED (3000K 80+ CRI)



Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	36.67 W
Lumens:	3,024.06 lm
Efficiency:	N/A
Efficacy:	82.06 lm/W

Spacing Criterion

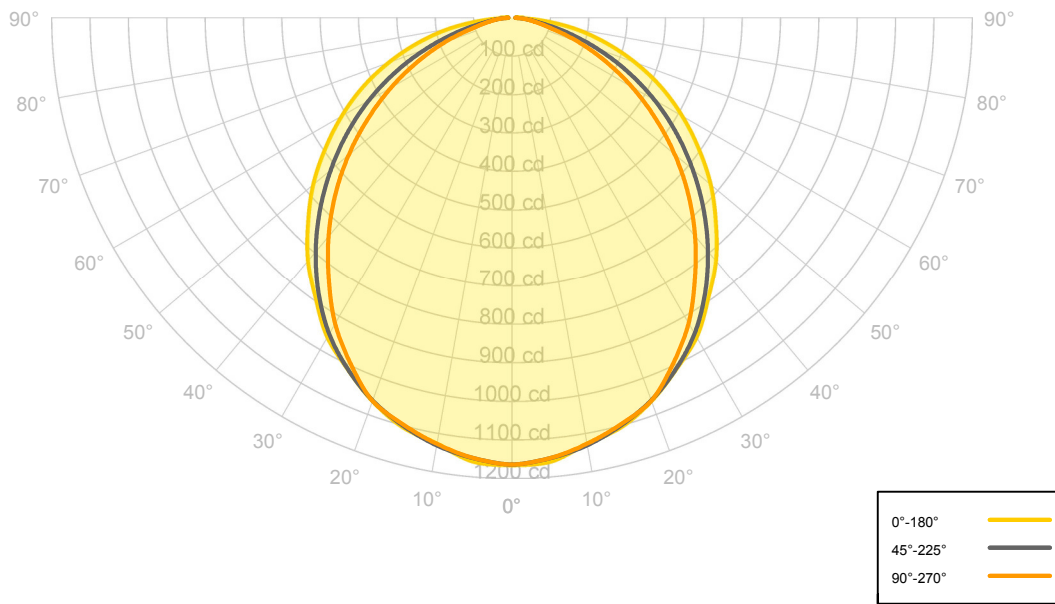
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.18
Four luminaires	1.31

Full Beam Angle

0° - 180°	111.38°
90° - 270°	97.08°

Calculated results may not be representative of field performance.
Ballast factors have not been applied.

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0° - 10°	131.19	4.34%	90° - 100°	2.40	0.08%
10° - 20°	309.55	10.24%	100° - 110°	0.00	0.00%
20° - 30°	463.12	15.31%	100° - 120°	0.00	0.00%
30° - 40°	543.01	17.96%	120° - 130°	0.00	0.00%
40° - 50°	543.09	17.96%	130° - 140°	0.00	0.00%
50° - 60°	469.50	15.53%	140° - 150°	0.00	0.00%
60° - 70°	338.31	11.19%	150° - 160°	0.00	0.00%
70° - 80°	176.86	5.85%	160° - 170°	0.00	0.00%
80° - 90°	49.42	1.63%	170° - 180°	0.00	0.00%
0° - 90°	3,024.06	100.00%	0° - 180°	3,024.06	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,165.39	1,165.39	1,165.39	1,165.39	1,165.39
5.00°	1,160.60	1,153.68	1,153.18	1,148.25	1,152.85
10.00°	1,126.41	1,134.48	1,132.40	1,128.24	1,128.48
15.00°	1,104.07	1,101.50	1,100.83	1,101.07	1,097.93
20.00°	1,063.38	1,061.30	1,062.37	1,060.29	1,063.24
25.00°	1,012.21	1,017.99	1,011.81	1,005.52	995.53
30.00°	962.87	960.20	952.71	929.78	921.75
35.00°	892.54	898.37	878.48	846.69	832.26
40.00°	827.32	825.21	795.93	757.26	743.60
45.00°	751.33	752.34	707.33	666.63	650.79
50.00°	676.35	668.30	615.84	573.10	554.64
55.00°	593.96	583.59	523.70	474.94	457.13
60.00°	512.37	491.99	430.11	377.98	362.83
65.00°	429.85	400.53	333.91	286.23	270.56
70.00°	341.95	308.62	238.95	198.01	184.34
75.00°	253.49	213.69	150.07	115.21	105.14
80.00°	167.47	121.09	71.26	60.69	61.00
85.00°	73.32	41.60	33.96	33.78	33.76
90.00°	10.10	8.57	8.72	8.46	8.56

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	13,829	13,829	13,829
45.00°	12,608	11,870	10,921
55.00°	12,288	10,834	9,457
65.00°	12,069	9,375	7,597
75.00°	11,622	6,880	4,820
85.00°	9,982	4,624	4,596



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	pfc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	0	3,602	3,602	3,602	3,602	3,518	3,518	3,518	3,518	3,361	3,361	3,361	3,218	3,218	3,218	3,086	3,086	3,086	3,024
	1	3,304	3,165	3,041	2,928	3,222	3,097	2,983	2,880	2,968	2,875	2,789	2,850	2,774	2,703	2,741	2,680	2,623	2,560
	2	3,015	2,774	2,574	2,407	2,936	2,717	2,533	2,378	2,609	2,455	2,322	2,510	2,382	2,269	2,419	2,313	2,218	2,154
	3	2,757	2,447	2,208	2,017	2,683	2,399	2,177	1,998	2,310	2,119	1,963	2,226	2,064	1,928	2,149	2,012	1,895	1,830
	4	2,531	2,177	1,918	1,720	2,462	2,137	1,895	1,708	2,061	1,851	1,684	1,991	1,809	1,661	1,925	1,768	1,639	1,574
	5	2,332	1,952	1,686	1,490	2,269	1,918	1,668	1,482	1,854	1,634	1,465	1,794	1,601	1,449	1,739	1,570	1,434	1,370
	6	2,158	1,763	1,498	1,308	2,101	1,734	1,484	1,302	1,680	1,457	1,290	1,629	1,431	1,279	1,582	1,405	1,267	1,206
	7	2,005	1,603	1,343	1,161	1,953	1,579	1,332	1,156	1,533	1,310	1,148	1,489	1,289	1,139	1,448	1,268	1,131	1,072
	8	1,869	1,467	1,214	1,040	1,822	1,446	1,205	1,037	1,406	1,187	1,030	1,369	1,170	1,024	1,334	1,153	1,018	961
9	1,749	1,350	1,105	940	1,707	1,332	1,098	938	1,298	1,083	933	1,265	1,069	928	1,235	1,055	923	868	
10	1,642	1,249	1,013	856	1,604	1,233	1,007	854	1,203	994	850	1,175	982	846	1,148	971	843	790	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	32 fc	18 ft	14 ft
8 ft	18 fc	23 ft	18 ft
10 ft	12 fc	29 ft	23 ft
12 ft	8 fc	35 ft	27 ft
15 ft	5 fc	44 ft	34 ft