



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-D5-I5-30-80-OW/MC

APEX 4'x6" - Sound Absorbing Panels - Direct/Indirect - Opal White/Matte Clear Lenses

Test Number

IES-P00257

Test Date

Thu Oct 10 14:38:34 2019

The results contained in this report pertain only to the tested sample.
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APX-PR-4x6-D5-I5-30-80-OW/MC
APEX 4'x6" - Sound Absorbing Panels - Direct/Indirect - Opal White/Matte Clear Lenses
LED (3000K 80+ CRI)



Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	44.95 W
Lumens:	4,090.36 lm
Efficiency:	N/A
Efficacy:	89.09 lm/W

Spacing Criterion

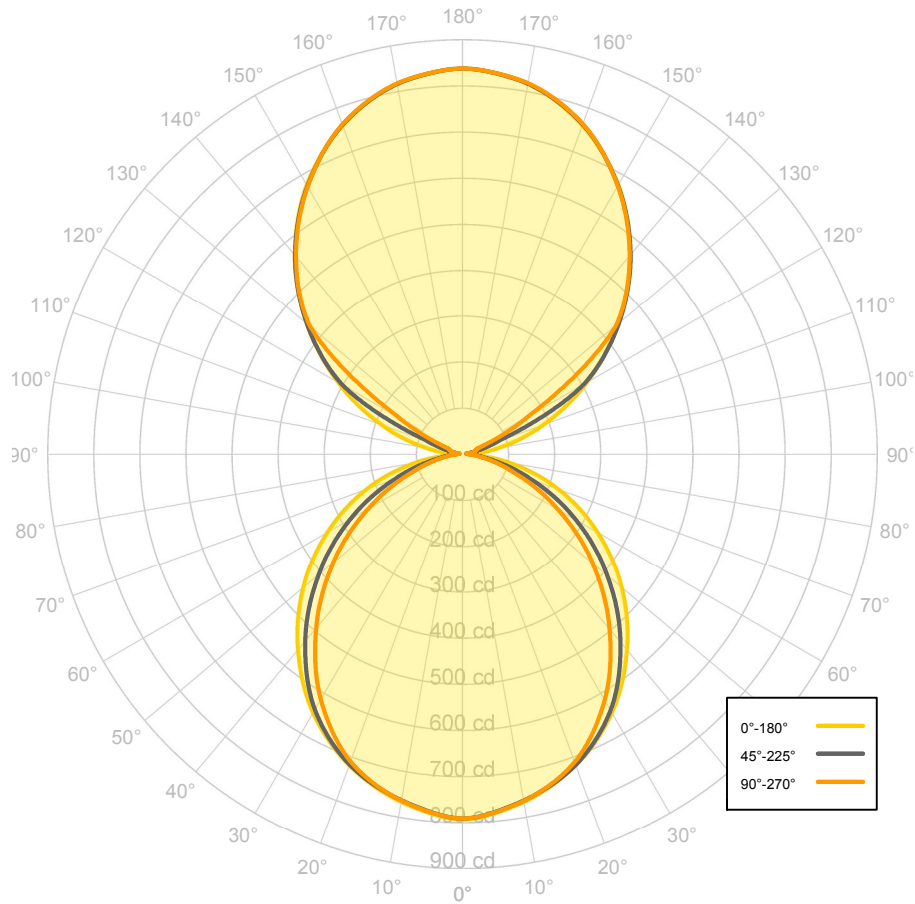
Two luminaires, plane 0°	1.21
Two luminaires, plane 90°	1.15
Four luminaires	1.3

Full Beam Angle

0° - 180°	256.69°
90° - 270°	258.75°

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°	133.62	3.27%	90° - 100°	23.15	0.57%
10° - 20°	207.47	5.07%	100° - 110°	72.11	1.76%
20° - 30°	308.87	7.55%	100° - 120°	253.08	6.19%
30° - 40°	360.96	8.82%	120° - 130°	312.53	7.64%
40° - 50°	358.82	8.77%	130° - 140°	384.04	9.39%
50° - 60°	307.02	7.51%	140° - 150°	384.05	9.39%
60° - 70°	217.77	5.32%	150° - 160°	327.42	8.00%
70° - 80°	114.00	2.79%	160° - 170°	220.46	5.39%
80° - 90°	35.26	0.86%	170° - 180°	141.85	3.47%
0° - 90°	2,043.78	49.97%	0° - 180°	4,090.36	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	792.87	792.87	792.87	792.87	792.87
10.00°	766.22	766.77	765.30	770.59	766.09
20.00°	718.37	719.73	719.26	718.44	712.48
30.00°	648.36	646.63	642.94	624.67	617.22
40.00°	555.07	554.46	532.92	507.62	496.05
50.00°	450.81	445.21	409.29	378.52	367.28
60.00°	338.16	322.73	280.38	247.27	235.07
70.00°	221.73	197.83	152.84	125.06	116.56
80.00°	102.46	73.52	46.78	39.56	38.21
90.00°	10.83	7.18	7.36	7.33	7.14
100.00°	78.53	42.01	22.02	24.59	24.99
110.00°	185.68	183.16	84.51	35.78	34.15
120.00°	310.79	314.18	305.97	218.34	168.02
130.00°	440.02	441.52	443.29	439.00	435.31
140.00°	565.30	567.36	567.26	565.52	564.06
150.00°	675.94	675.82	673.91	674.79	672.95
160.00°	760.12	761.60	761.88	761.83	763.02
170.00°	817.22	819.13	816.66	818.97	817.82
180.00°	837.30	837.30	837.30	837.30	837.30

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	9,408	9,408	9,408
45.00°	7,493	3,004	2,277
55.00°	6,914	2,142	1,514
65.00°	6,185	1,352	869
75.00°	5,051	645	388
85.00°	3,156	188	119



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	pf_c	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
	pc_c	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%
RCR	0	4,382	4,382	4,382	4,382	4,042	4,042	4,042	4,042	3,408	3,408	3,408	2,827	2,827	2,827	2,294	2,294	2,294	2,044
	1	4,008	3,834	3,678	3,537	3,692	3,543	3,410	3,288	3,000	2,904	2,815	2,501	2,433	2,371	2,040	1,995	1,953	1,738
	2	3,657	3,360	3,114	2,908	3,365	3,110	2,897	2,717	2,641	2,483	2,348	2,208	2,095	1,996	1,807	1,730	1,660	1,472
	3	3,343	2,963	2,668	2,434	3,074	2,746	2,489	2,282	2,339	2,145	1,986	1,961	1,820	1,701	1,611	1,511	1,425	1,259
	4	3,064	2,630	2,311	2,068	2,818	2,441	2,161	1,945	2,086	1,872	1,703	1,756	1,596	1,467	1,448	1,333	1,238	1,091
	5	2,818	2,350	2,023	1,781	2,592	2,185	1,895	1,679	1,873	1,649	1,477	1,583	1,413	1,280	1,312	1,188	1,088	957
	6	2,600	2,113	1,786	1,552	2,394	1,968	1,677	1,466	1,693	1,466	1,296	1,436	1,262	1,129	1,196	1,067	966	848
	7	2,408	1,912	1,591	1,366	2,219	1,784	1,497	1,293	1,540	1,313	1,148	1,312	1,136	1,005	1,098	966	865	759
	8	2,238	1,741	1,428	1,213	2,065	1,627	1,346	1,150	1,409	1,185	1,026	1,205	1,031	903	1,013	881	782	686
	9	2,087	1,593	1,291	1,086	1,928	1,491	1,219	1,032	1,297	1,077	924	1,113	941	817	940	808	711	625
	10	1,954	1,466	1,175	980	1,807	1,375	1,111	933	1,199	985	838	1,033	864	745	876	746	652	573

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	22 fc	0 ft	0 ft
8 ft	12 fc	0 ft	0 ft
10 ft	8 fc	0 ft	0 ft
12 ft	6 fc	0 ft	0 ft
15 ft	4 fc	0 ft	0 ft