



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

ECO-PR-4x8-D5-I3-FW/MC-AM6

ECHO - AM6 Sound Absorbing Panels - Direct/Indirect - Frosted & Matte Clear Lenses

Test Number

IES-P00209

Test Date

Mon Aug 26 11:22:18 2019

The results contained in this report pertain only to the tested sample.
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ECO-PR-4x8-D5-I3-FW/MC-AM6
ECHO - AM6 Sound Absorbing Panels - Direct/Indirect - Frosted & Matte Clear Lenses
LED (3000K, 80+ CRI)

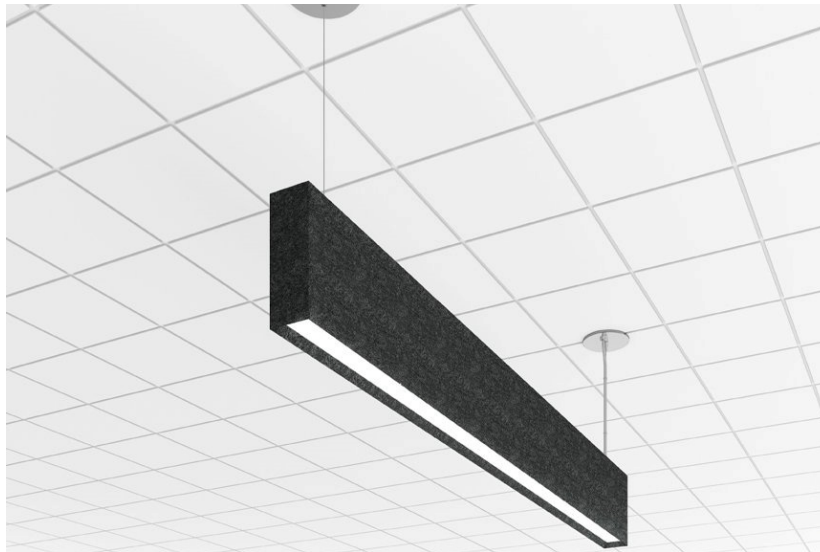


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	49.43 W
Lumens:	3,487.31 lm
Efficiency:	N/A
Efficacy:	68.9 lm/W

Spacing Criterion

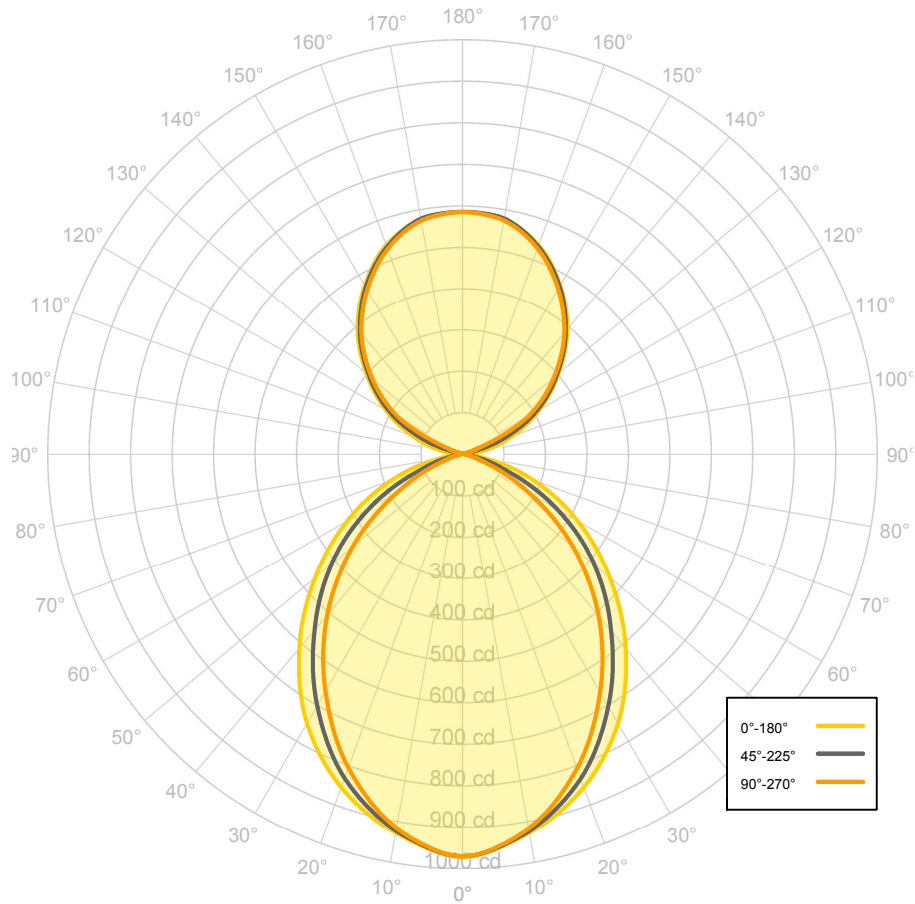
Two luminaires, plane 0°	1.15
Two luminaires, plane 90°	1.04
Four luminaires	1.2

Full Beam Angle

0° - 180°	304.4°
90° - 270°	307.73°

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°	162.39	4.66%	90° - 100°	9.85	0.28%
10° - 20°	243.90	6.99%	100° - 110°	55.61	1.59%
20° - 30°	348.96	10.01%	100° - 120°	197.63	5.67%
30° - 40°	389.91	11.18%	120° - 130°	219.79	6.30%
40° - 50°	368.44	10.57%	130° - 140°	260.10	7.46%
50° - 60°	291.31	8.35%	140° - 150°	263.99	7.57%
60° - 70°	175.18	5.02%	150° - 160°	227.58	6.53%
70° - 80°	64.88	1.86%	160° - 170°	154.30	4.42%
80° - 90°	9.83	0.28%	170° - 180°	99.27	2.85%
0° - 90°	2,054.80	58.92%	0° - 180°	3,487.31	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	972.11	972.11	972.11	972.11	972.11
10.00°	928.24	929.92	924.83	923.85	918.67
20.00°	854.88	847.59	834.22	816.26	807.68
30.00°	749.52	737.42	703.24	673.37	663.22
40.00°	611.75	595.37	556.92	523.91	509.75
50.00°	462.90	451.84	413.59	366.91	344.61
60.00°	320.40	309.93	257.20	194.42	176.15
70.00°	181.69	162.72	98.74	56.58	44.37
80.00°	57.08	33.23	6.87	0.96	0.56
90.00°	4.87	0.18	0.13	0.16	0.19
100.00°	53.70	35.19	5.60	1.64	1.52
110.00°	125.50	123.33	99.04	54.15	39.22
120.00°	213.13	210.30	204.56	194.23	185.54
130.00°	302.19	300.29	296.01	290.71	287.35
140.00°	393.30	390.02	386.68	383.34	381.20
150.00°	471.39	469.70	466.84	465.30	459.82
160.00°	538.10	535.88	532.60	528.86	527.72
170.00°	576.76	573.94	576.71	569.62	572.36
180.00°	584.43	584.43	584.43	584.43	584.43

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	11,182	11,182	11,182
45.00°	7,531	2,515	1,799
55.00°	6,388	1,659	1,026
65.00°	5,082	867	420
75.00°	3,317	261	85
85.00°	1,441	18	1



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	3,810	3,810	3,810	3,810	3,555	3,555	3,555	3,555	3,079	3,079	3,079	2,643	2,643	2,643	2,243	2,243	2,243	2,055
	1	3,514	3,375	3,250	3,138	3,277	3,158	3,051	2,953	2,753	2,674	2,602	2,380	2,324	2,272	2,036	1,998	1,962	1,800
	2	3,225	2,984	2,784	2,616	3,007	2,798	2,624	2,476	2,449	2,318	2,205	2,127	2,031	1,947	1,829	1,761	1,700	1,557
	3	2,962	2,650	2,408	2,216	2,761	2,490	2,277	2,105	2,187	2,024	1,890	1,908	1,785	1,682	1,648	1,559	1,482	1,355
	4	2,726	2,367	2,104	1,903	2,541	2,228	1,994	1,814	1,965	1,783	1,639	1,721	1,581	1,469	1,493	1,389	1,303	1,189
	5	2,516	2,127	1,856	1,655	2,347	2,006	1,763	1,582	1,776	1,584	1,437	1,561	1,412	1,295	1,361	1,248	1,157	1,054
	6	2,329	1,923	1,651	1,455	2,175	1,817	1,572	1,394	1,614	1,418	1,272	1,425	1,271	1,153	1,248	1,129	1,036	943
	7	2,164	1,749	1,481	1,292	2,022	1,655	1,412	1,240	1,476	1,280	1,137	1,308	1,152	1,035	1,151	1,028	935	851
	8	2,017	1,600	1,338	1,157	1,887	1,516	1,278	1,113	1,357	1,163	1,024	1,207	1,051	937	1,066	943	850	773
	9	1,886	1,471	1,217	1,045	1,767	1,396	1,165	1,006	1,254	1,063	930	1,119	965	854	993	869	779	708
	10	1,770	1,360	1,114	950	1,660	1,292	1,068	917	1,164	978	850	1,043	891	783	928	806	718	653

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	27 fc	0 ft	0 ft
8 ft	15 fc	0 ft	0 ft
10 ft	10 fc	0 ft	0 ft
12 ft	7 fc	0 ft	0 ft
15 ft	4 fc	0 ft	0 ft