



**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-D5-30-80-FW

ECHO 4'x8" - Sound Absorbing Panels - Direct - Frosted White Lenses

#### **Test Number**

IES-P00251

#### **Test Date**

Wed Oct 09 17:10:13 2019

The results contained in this report pertain only to the tested sample.  
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ECO-PR-4x8-D5-30-80-FW  
ECHO 4'x8" - Sound Absorbing Panels - Direct - Frosted White Lenses  
LED (3000K 80+ CRI)

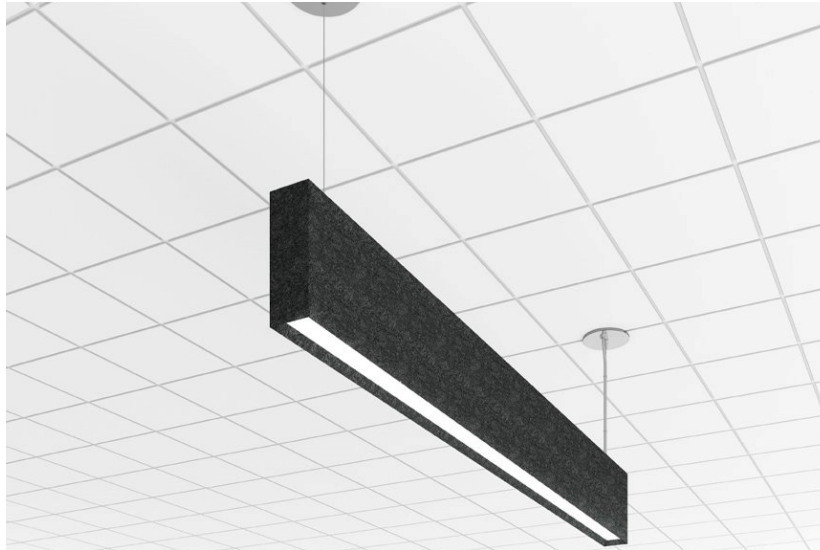


Image may differ slightly from actual unit.

**Summary of Results**

**Output:**

<b>Watts:</b>	26.57 W
<b>Lumens:</b>	2,017.68 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	75.51 lm/W

**Spacing Criterion**

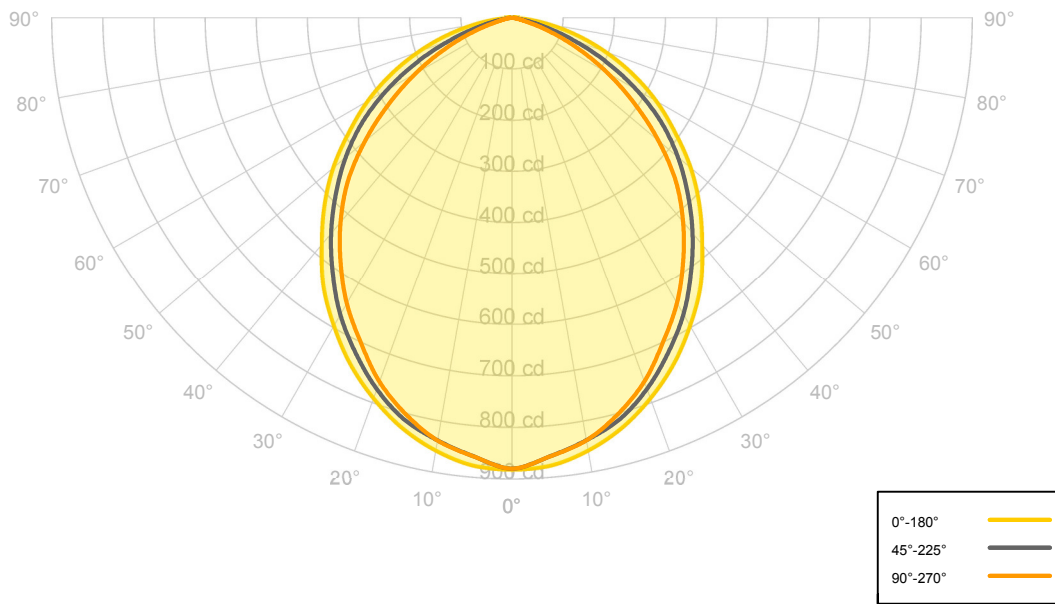
<b>Two luminaires, plane 0°</b>	1.18
<b>Two luminaires, plane 90°</b>	1.1
<b>Four luminaires</b>	1.25

**Full Beam Angle**

<b>0° - 180°</b>	102.22°
<b>90° - 270°</b>	91.68°

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°	98.34	4.87%	90° - 100°	0.44	0.02%
10° - 20°	228.18	11.31%	100° - 110°	0.00	0.00%
20° - 30°	332.01	16.46%	100° - 120°	0.00	0.00%
30° - 40°	380.63	18.86%	120° - 130°	0.00	0.00%
40° - 50°	373.86	18.53%	130° - 140°	0.00	0.00%
50° - 60°	309.64	15.35%	140° - 150°	0.00	0.00%
60° - 70°	200.99	9.96%	150° - 160°	0.00	0.00%
70° - 80°	80.68	4.00%	160° - 170°	0.00	0.00%
80° - 90°	13.34	0.66%	170° - 180°	0.00	0.00%
0° - 90°	2,017.68	100.00%	0° - 180°	2,017.68	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	882.11	882.11	882.11	882.11	882.11
5.00°	877.25	867.34	861.20	859.36	861.43
10.00°	857.97	848.02	839.34	840.25	839.63
15.00°	829.48	818.38	813.64	808.90	802.73
20.00°	791.41	783.80	772.89	762.35	757.61
25.00°	747.54	738.03	723.39	709.46	699.94
30.00°	696.26	687.40	671.00	652.63	645.60
35.00°	642.50	629.42	610.68	588.60	584.11
40.00°	578.51	570.76	549.97	527.48	521.19
45.00°	518.31	511.00	486.64	465.35	454.47
50.00°	456.13	446.80	424.12	393.27	374.72
55.00°	388.15	381.63	357.49	310.60	293.08
60.00°	325.60	317.71	281.43	232.33	216.37
65.00°	260.08	250.57	203.06	158.58	143.69
70.00°	193.63	180.27	127.57	91.24	78.89
75.00°	129.70	109.51	62.73	36.74	29.57
80.00°	70.98	47.21	18.59	11.77	11.14
85.00°	24.14	10.31	5.71	5.25	5.10
90.00°	3.44	1.56	1.31	1.20	1.18

**Average Luminaire Luminance [cd/m²]**

	0.00°	45.00°	90.00°
0.00°	10,147	10,147	10,147
45.00°	8,432	7,916	7,393
55.00°	7,784	7,169	5,878
65.00°	7,079	5,527	3,911
75.00°	5,764	2,788	1,314
85.00°	3,186	754	673



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pf<sub>c</sub></b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	<b>pc<sub>c</sub></b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
	<b>0</b>	2,402	2,402	2,402	2,402	2,346	2,346	2,346	2,346	2,242	2,242	2,242	2,147	2,147	2,147	2,059	2,059	2,059	2,018
	<b>1</b>	2,221	2,136	2,060	1,991	2,168	2,091	2,022	1,959	2,006	1,949	1,897	1,928	1,882	1,839	1,856	1,820	1,785	1,745
	<b>2</b>	2,038	1,887	1,762	1,658	1,986	1,849	1,735	1,638	1,779	1,683	1,600	1,714	1,634	1,564	1,654	1,588	1,530	1,488
	<b>3</b>	1,870	1,674	1,523	1,402	1,822	1,643	1,503	1,389	1,584	1,464	1,365	1,530	1,428	1,342	1,479	1,393	1,319	1,277
	<b>4</b>	1,721	1,496	1,330	1,204	1,677	1,469	1,315	1,196	1,420	1,286	1,180	1,374	1,258	1,164	1,331	1,231	1,149	1,107
	<b>5</b>	1,590	1,345	1,175	1,049	1,549	1,323	1,163	1,043	1,281	1,140	1,032	1,242	1,119	1,021	1,206	1,098	1,011	970
	<b>6</b>	1,473	1,218	1,047	925	1,436	1,200	1,038	921	1,164	1,020	913	1,131	1,003	905	1,100	986	897	858
	<b>7</b>	1,370	1,110	942	824	1,336	1,094	934	821	1,064	920	815	1,036	906	809	1,009	893	804	765
	<b>8</b>	1,279	1,018	853	741	1,248	1,004	847	738	978	836	734	954	824	730	931	813	726	689
<b>9</b>	1,198	938	779	671	1,170	926	774	669	904	764	666	882	755	663	862	746	660	624	
<b>10</b>	1,126	869	715	613	1,100	858	711	611	839	703	609	820	695	606	803	687	604	569	

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	25 fc	15 ft	12 ft
8 ft	14 fc	20 ft	16 ft
10 ft	9 fc	25 ft	21 ft
12 ft	6 fc	30 ft	25 ft
15 ft	4 fc	37 ft	31 ft