



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-D3-I3-30-80-FW/MC

ECHO 4'x8" - Sound Absorbing Panels - Direct/Indirect - Frosted/Matte Clear Lenses

Test Number

IES-P00247

Test Date

Wed Oct 09 14:09:04 2019

The results contained in this report pertain only to the tested sample.
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ECO-PR-4x8-D3-I3-30-80-FW/MC
ECHO 4'x8" - Sound Absorbing Panels - Direct/Indirect - Frosted/Matte Clear Lenses
LED (3000K 80+ CRI)

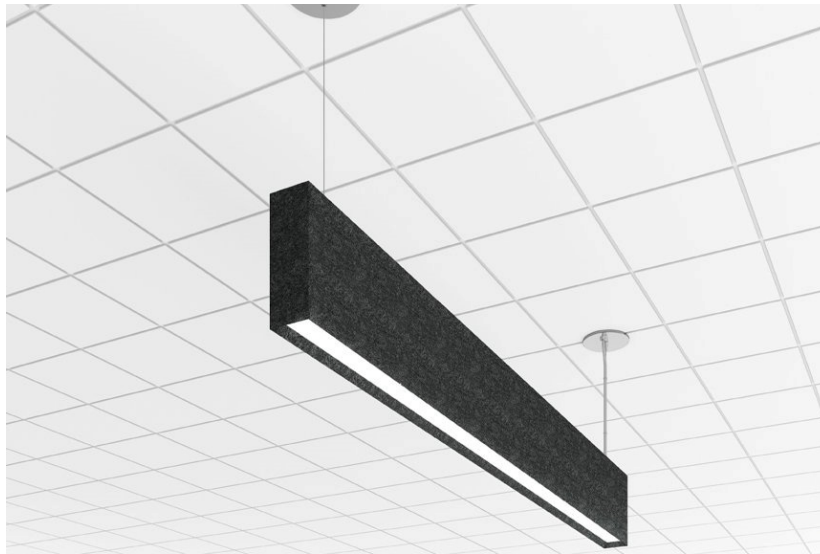


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	31.73 W
Lumens:	2,872.20 lm
Efficiency:	N/A
Efficacy:	88.52 lm/W

Spacing Criterion

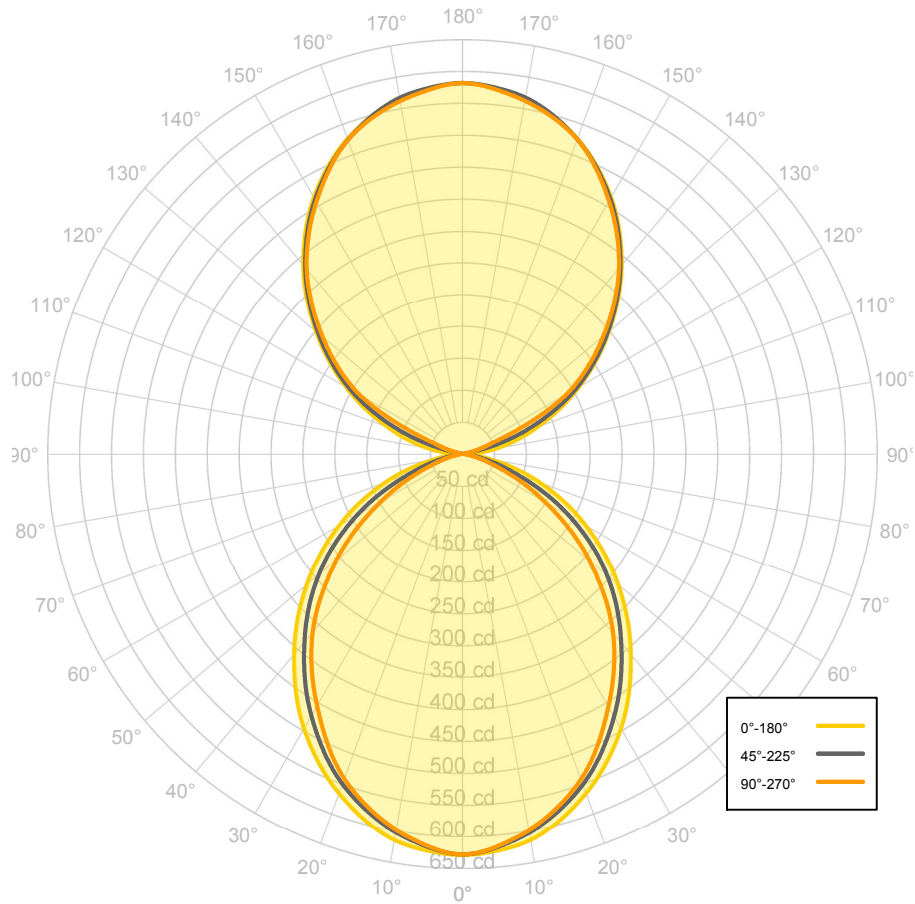
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.1
Four luminaires	1.24

Full Beam Angle

0° - 180°	263.38°
90° - 270°	265.64°

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°	105.58	3.68%	90° - 100°	13.40	0.47%
10° - 20°	160.80	5.60%	100° - 110°	60.28	2.10%
20° - 30°	233.72	8.14%	100° - 120°	204.99	7.14%
30° - 40°	266.91	9.29%	120° - 130°	220.16	7.67%
40° - 50°	258.74	9.01%	130° - 140°	258.92	9.01%
50° - 60°	211.11	7.35%	140° - 150°	261.90	9.12%
60° - 70°	133.73	4.66%	150° - 160°	225.02	7.83%
70° - 80°	55.15	1.92%	160° - 170°	152.16	5.30%
80° - 90°	11.63	0.40%	170° - 180°	98.26	3.42%
0° - 90°	1,437.38	50.04%	0° - 180°	2,872.20	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	628.96	628.96	628.96	628.96	628.96
10.00°	614.75	604.05	603.62	602.04	599.84
20.00°	565.81	558.18	552.14	542.09	543.33
30.00°	496.67	488.86	475.43	463.47	457.28
40.00°	410.23	403.65	386.74	372.52	366.92
50.00°	318.33	310.61	295.38	270.96	258.43
60.00°	223.30	218.36	190.41	156.79	145.15
70.00°	128.58	118.72	82.38	57.88	50.42
80.00°	44.62	29.53	12.99	8.08	7.31
90.00°	5.87	1.83	1.88	1.92	1.90
100.00°	54.36	38.53	11.28	8.43	8.65
110.00°	124.51	124.94	102.78	61.15	46.73
120.00°	210.38	210.19	205.63	198.17	190.05
130.00°	299.54	298.10	296.66	290.18	288.15
140.00°	388.00	386.69	384.84	381.23	381.45
150.00°	465.78	465.55	462.63	459.09	458.60
160.00°	526.53	526.73	525.44	523.86	525.40
170.00°	566.72	563.63	567.71	564.58	562.58
180.00°	581.93	581.93	581.93	581.93	581.93

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	7,235	7,235	7,235
45.00°	5,105	1,768	1,316
55.00°	4,417	1,202	795
65.00°	3,561	665	373
75.00°	2,406	236	110
85.00°	1,174	39	18



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	3,078	3,078	3,078	3,078	2,839	2,839	2,839	2,839	2,394	2,394	2,394	1,987	1,987	1,987	1,613	1,613	1,613	1,437
	1	2,827	2,710	2,605	2,511	2,606	2,507	2,417	2,336	2,126	2,062	2,004	1,777	1,733	1,692	1,454	1,425	1,398	1,248
	2	2,588	2,386	2,220	2,080	2,384	2,211	2,067	1,945	1,883	1,777	1,686	1,580	1,505	1,439	1,300	1,249	1,203	1,072
	3	2,371	2,111	1,911	1,751	2,183	1,960	1,785	1,644	1,675	1,544	1,436	1,411	1,316	1,236	1,166	1,099	1,042	927
	4	2,177	1,879	1,661	1,495	2,005	1,748	1,556	1,408	1,499	1,353	1,238	1,268	1,160	1,073	1,053	976	912	809
	5	2,005	1,683	1,458	1,292	1,847	1,568	1,369	1,221	1,350	1,196	1,079	1,146	1,031	941	957	873	806	714
	6	1,852	1,517	1,291	1,130	1,708	1,415	1,215	1,069	1,223	1,067	950	1,043	924	833	875	787	718	637
	7	1,717	1,375	1,153	997	1,585	1,285	1,087	946	1,114	958	844	955	834	744	805	715	646	573
	8	1,597	1,253	1,037	888	1,476	1,173	979	844	1,021	867	757	878	758	671	744	653	586	519
9	1,491	1,149	939	798	1,379	1,077	889	759	941	790	684	813	694	609	691	601	535	474	
10	1,396	1,058	856	722	1,294	994	811	688	871	724	622	755	639	556	645	556	491	436	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	17 fc	0 ft	0 ft
8 ft	10 fc	0 ft	0 ft
10 ft	6 fc	0 ft	0 ft
12 ft	4 fc	0 ft	0 ft
15 ft	3 fc	0 ft	0 ft