



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-I5-30-80-FW/MC

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

Test Number

IES-P00248

Test Date

Wed Oct 09 14:36:27 2019

The results contained in this report pertain only to the tested sample.
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ECO-PR-4x8-D3-I5-30-80-FW/MC
ECHO 4'x8" - Sound Absorbing Panels - Direct/Indirect - Frosted/Matte Clear Lenses
LED (3000K 80+ CRI)

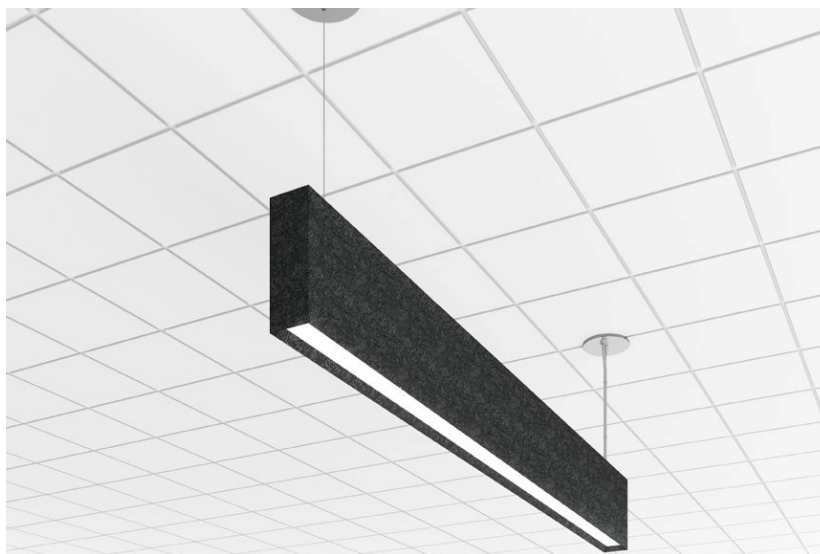


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	36.79 W
Lumens:	3,487.78 lm
Efficiency:	N/A
Efficacy:	92.71 lm/W

Spacing Criterion

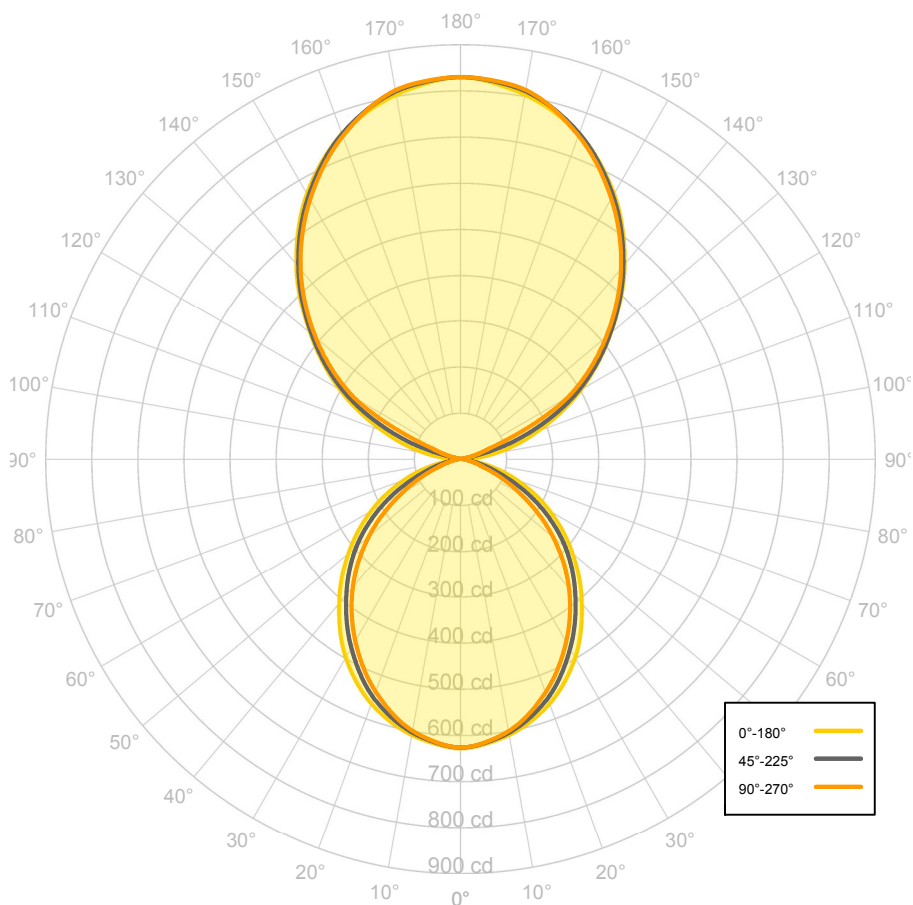
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.1
Four luminaires	1.24

Full Beam Angle

0° - 180°	258.34°
90° - 270°	260.37°

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°	105.40	3.02%	90° - 100°	18.95	0.54%
10° - 20°	160.88	4.61%	100° - 110°	86.12	2.47%
20° - 30°	233.93	6.71%	100° - 120°	292.86	8.40%
30° - 40°	266.90	7.65%	120° - 130°	314.64	9.02%
40° - 50°	258.88	7.42%	130° - 140°	369.90	10.61%
50° - 60°	211.27	6.06%	140° - 150°	373.95	10.72%
60° - 70°	133.71	3.83%	150° - 160°	321.33	9.21%
70° - 80°	55.19	1.58%	160° - 170°	217.52	6.24%
80° - 90°	12.01	0.34%	170° - 180°	140.45	4.03%
0° - 90°	1,438.17	41.23%	0° - 180°	3,487.78	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	627.74	627.74	627.74	627.74	627.74
10.00°	608.18	605.82	604.56	598.50	601.01
20.00°	565.14	559.78	553.51	544.75	539.80
30.00°	497.75	489.12	475.49	462.73	458.32
40.00°	409.20	403.53	387.21	372.65	365.57
50.00°	317.00	311.66	295.58	271.66	259.64
60.00°	223.43	218.13	190.46	156.54	145.28
70.00°	128.96	118.85	82.43	57.88	49.95
80.00°	44.45	29.73	13.01	8.11	7.27
90.00°	7.44	2.32	2.46	2.47	2.40
100.00°	77.38	54.83	16.31	12.19	12.39
110.00°	177.61	178.50	147.17	87.53	66.08
120.00°	301.55	300.68	294.57	281.66	271.02
130.00°	425.10	426.32	423.80	416.25	412.42
140.00°	554.08	552.24	549.76	545.19	541.90
150.00°	666.25	663.09	661.16	656.70	653.68
160.00°	751.86	751.47	752.58	747.89	747.62
170.00°	803.97	810.44	811.19	807.12	813.92
180.00°	829.68	829.68	829.68	829.68	829.68

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	7,221	7,221	7,221
45.00°	5,089	1,769	1,316
55.00°	4,407	1,202	798
65.00°	3,566	665	372
75.00°	2,409	236	109
85.00°	1,207	40	19



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	3,664	3,664	3,664	3,664	3,341	3,341	3,341	3,341	2,737	2,737	2,737	2,184	2,184	2,184	1,677	1,677	1,677	1,438
	1	3,360	3,219	3,092	2,977	3,061	2,942	2,835	2,738	2,424	2,350	2,282	1,948	1,899	1,853	1,509	1,479	1,451	1,248
	2	3,073	2,830	2,629	2,460	2,797	2,591	2,420	2,274	2,143	2,021	1,916	1,730	1,647	1,574	1,348	1,295	1,247	1,072
	3	2,813	2,500	2,259	2,066	2,559	2,293	2,085	1,917	1,904	1,753	1,628	1,543	1,438	1,349	1,209	1,139	1,080	927
	4	2,580	2,222	1,960	1,759	2,347	2,041	1,814	1,638	1,701	1,533	1,400	1,385	1,265	1,168	1,091	1,010	943	810
	5	2,373	1,986	1,716	1,516	2,160	1,828	1,592	1,415	1,529	1,352	1,217	1,250	1,123	1,022	990	903	833	715
	6	2,189	1,786	1,515	1,321	1,994	1,647	1,409	1,236	1,382	1,202	1,068	1,136	1,004	903	905	813	742	637
	7	2,027	1,615	1,349	1,162	1,848	1,492	1,257	1,089	1,257	1,077	946	1,038	904	805	832	738	666	573
	8	1,883	1,470	1,210	1,031	1,719	1,360	1,129	969	1,150	972	845	953	820	723	768	674	603	519
	9	1,755	1,344	1,092	922	1,604	1,246	1,021	868	1,058	883	761	881	749	655	714	619	550	474
10	1,642	1,236	993	831	1,503	1,147	930	784	977	807	690	817	688	597	666	572	505	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