



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-D3-30-80-FW

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

Test Number

IES-P00250

Test Date

Wed Oct 09 16:40:28 2019

The results contained in this report pertain only to the tested sample.
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ECO-PR-4x8-D3-30-80-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:

Watts:	18.68 W
Lumens:	1,412.35 lm
Efficiency:	N/A
Efficacy:	75.19 lm/W

Spacing Criterion

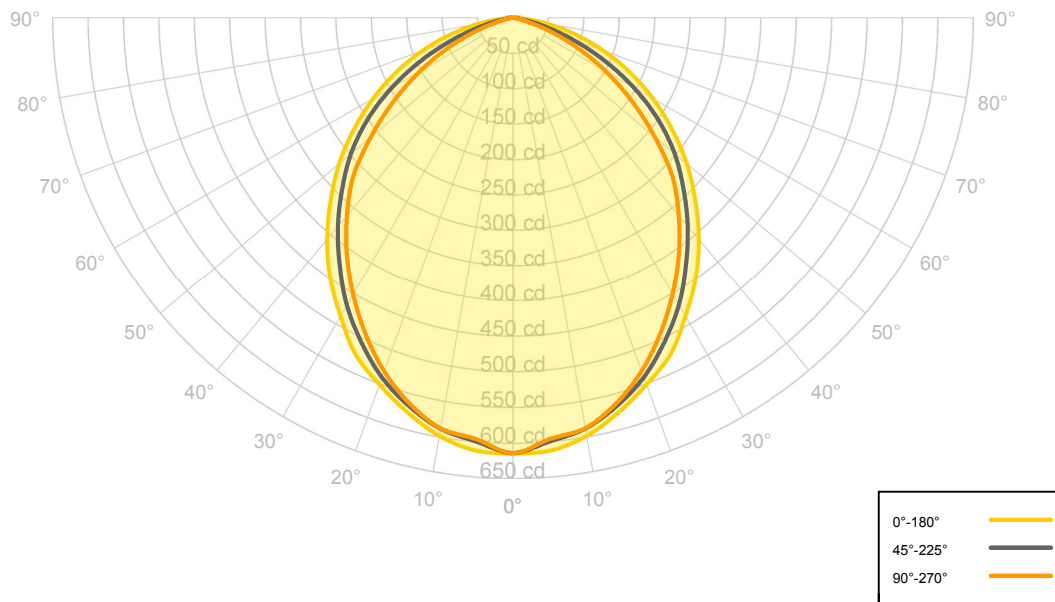
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.1
Four luminaires	1.25

Full Beam Angle

0° - 180°	102.73°
90° - 270°	92.1°

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°	68.60	4.86%	90° - 100°	0.31	0.02%
10° - 20°	159.30	11.28%	100° - 110°	0.00	0.00%
20° - 30°	232.44	16.46%	100° - 120°	0.00	0.00%
30° - 40°	266.63	18.88%	120° - 130°	0.00	0.00%
40° - 50°	261.77	18.53%	130° - 140°	0.00	0.00%
50° - 60°	217.10	15.37%	140° - 150°	0.00	0.00%
60° - 70°	140.79	9.97%	150° - 160°	0.00	0.00%
70° - 80°	56.40	3.99%	160° - 170°	0.00	0.00%
80° - 90°	9.32	0.66%	170° - 180°	0.00	0.00%
0° - 90°	1,412.35	100.00%	0° - 180°	1,412.35	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	615.00	615.00	615.00	615.00	615.00
5.00°	612.80	603.17	600.94	601.73	597.59
10.00°	599.08	588.53	589.51	583.98	588.94
15.00°	576.42	571.51	567.80	563.18	564.22
20.00°	551.15	546.65	540.76	532.92	531.54
25.00°	525.39	516.78	506.21	497.14	492.66
30.00°	486.96	482.04	468.96	455.99	451.07
35.00°	449.60	442.32	426.48	414.05	408.95
40.00°	408.17	399.95	384.37	368.50	364.53
45.00°	363.70	356.04	340.68	326.41	319.74
50.00°	320.22	311.72	298.45	275.03	261.58
55.00°	273.70	267.59	250.52	218.08	205.17
60.00°	227.55	222.72	197.27	163.00	151.83
65.00°	181.57	176.31	142.06	110.67	100.84
70.00°	134.89	126.28	89.33	63.77	55.56
75.00°	90.16	76.85	43.93	25.56	20.61
80.00°	49.20	33.15	12.98	8.18	7.62
85.00°	16.94	7.22	4.05	3.66	3.55
90.00°	2.40	1.12	0.91	0.84	0.78

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	7,074	7,074	7,074
45.00°	5,916	5,542	5,201
55.00°	5,489	5,024	4,115
65.00°	4,942	3,867	2,745
75.00°	4,007	1,952	916
85.00°	2,236	535	469



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	1,682	1,682	1,682	1,682	1,643	1,643	1,643	1,643	1,569	1,569	1,569	1,503	1,503	1,503	1,441	1,441	1,441	1,412
	1	1,555	1,495	1,442	1,394	1,517	1,464	1,415	1,371	1,404	1,364	1,328	1,350	1,317	1,288	1,299	1,274	1,250	1,221
	2	1,426	1,321	1,233	1,160	1,390	1,294	1,214	1,146	1,245	1,178	1,120	1,200	1,144	1,095	1,158	1,112	1,071	1,042
	3	1,309	1,172	1,066	981	1,275	1,150	1,052	972	1,109	1,025	955	1,071	999	939	1,035	975	923	894
	4	1,205	1,047	931	843	1,173	1,028	920	837	994	900	826	962	880	815	932	862	804	775
	5	1,112	942	822	734	1,084	926	814	730	897	798	722	869	783	715	844	768	707	679
	6	1,031	853	733	647	1,005	839	726	644	815	714	639	791	702	633	770	690	628	600
	7	959	777	659	576	935	766	654	574	744	644	570	725	634	566	706	624	562	535
	8	895	712	597	518	874	703	593	516	684	585	513	667	577	510	651	569	507	482
	9	838	656	545	469	819	648	541	468	632	534	466	617	528	464	603	521	461	436
10	788	608	500	428	770	601	497	427	587	491	426	574	486	424	562	481	422	398	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	17 fc	15 ft	12 ft
8 ft	10 fc	20 ft	17 ft
10 ft	6 fc	25 ft	21 ft
12 ft	4 fc	30 ft	25 ft
15 ft	3 fc	38 ft	31 ft