



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

RAI-R-2x4-DR7-30-80-OW-W

RAIL LED - Recessed 2x4 Downlight - White Housing - Opal Lenses - Ribbed Center

Test Number

IES-P00161

Test Date

Wed Feb 07 14:21:11 2018

The results contained in this report pertain only to the tested sample.
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RAI-R-2x4-DR7-30-80-OW-W
RAIL LED - Recessed 2x4 Downlight - White Housing - Opal Lenses - Ribbed Center
LED (3000K, 80+ CRI)

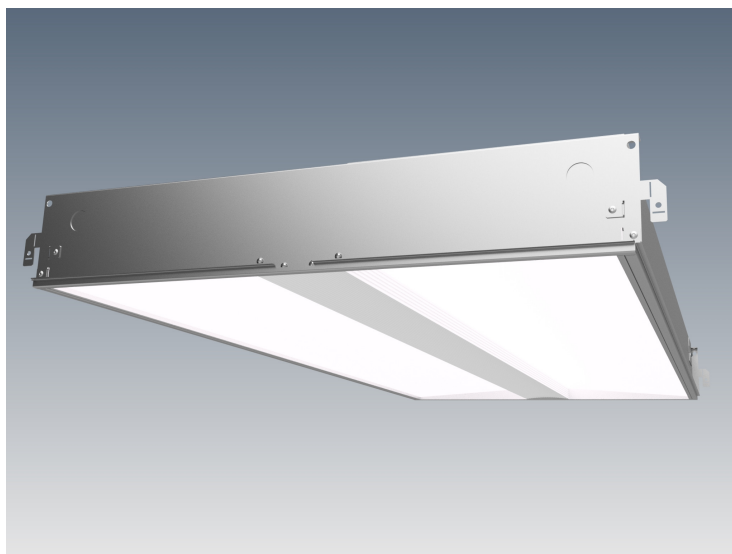


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	70.5 W
Lumens:	6999.41 lm
Efficiency:	N/A
Efficacy:	99.28 lm/W

Spacing Criterion

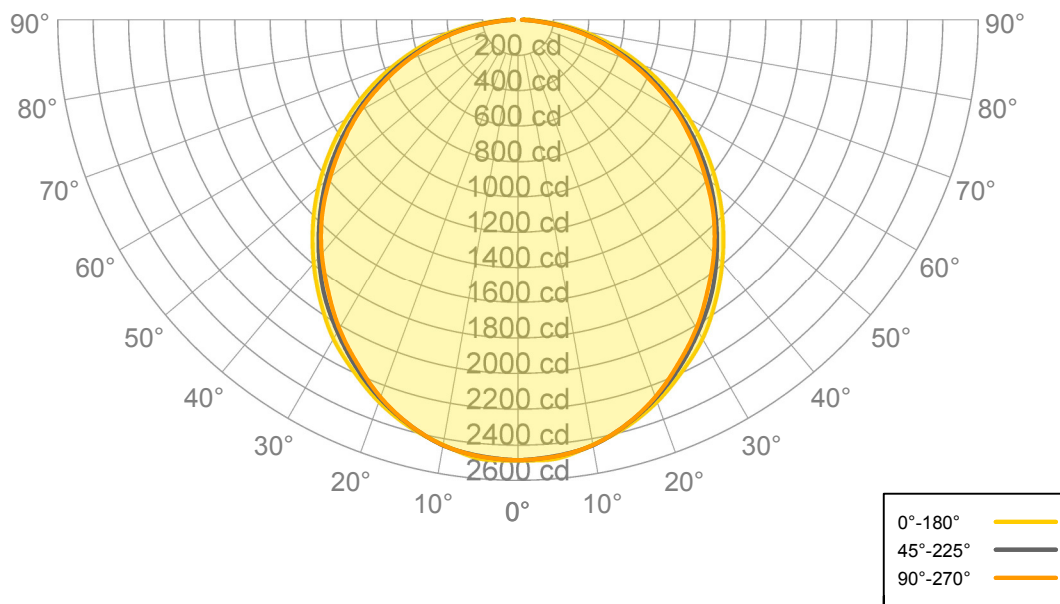
Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.2
Four luminaires	1.34

Full Beam Angle

0° - 180°	112.7°
90° - 270°	107.7°

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°	282.48	4.02%	90° - 100°	6.62	0.09%
10° - 20°	666.24	9.47%	100° - 110°	0	0%
20° - 30°	996.71	14.17%	100° - 120°	0	0%
30° - 40°	1,188.64	16.9%	120° - 130°	0	0%
40° - 50°	1,224.39	17.41%	130° - 140°	0	0%
50° - 60°	1,109.17	15.77%	140° - 150°	0	0%
60° - 70°	863.76	12.28%	150° - 160°	0	0%
70° - 80°	531.27	7.55%	160° - 170°	0	0%
80° - 90°	169.49	2.41%	170° - 180°	0	0%
0° - 90°	7,032.15	100%	0° - 180°	7,032.15	100%



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Candela Distribution

	0°	22.5°	45°	67.5°	90°
0°	2,488.89	2,488.89	2,488.89	2,488.89	2,488.89
5°	2,488.08	2,487.29	2,474.7	2,494.4	2,476.82
10°	2,436.85	2,445.83	2,442.23	2,434.88	2,440.97
15°	2,379.33	2,374.68	2,369.39	2,366.57	2,368.56
20°	2,297.89	2,289.02	2,277.25	2,269.34	2,269.64
25°	2,194.51	2,190.18	2,165.14	2,155.79	2,145.21
30°	2,084.98	2,064.98	2,038.04	2,026.66	2,016.97
35°	1,945.41	1,930.48	1,903.95	1,885.81	1,869.72
40°	1,795.3	1,776.27	1,747.97	1,728.3	1,724.38
45°	1,638.01	1,617	1,583.1	1,567.89	1,564.8
50°	1,471.55	1,447.48	1,414.88	1,394.3	1,384.22
55°	1,295.57	1,274.34	1,236.98	1,214.38	1,206.06
60°	1,116.78	1,087.71	1,054.14	1,034.48	1,030.57
65°	929.59	900.1	867.14	845.34	839.79
70°	738.23	712.56	681.35	662.24	654.94
75°	552.38	524.1	492.96	481.67	479.73
80°	369.02	340.79	314.09	303.91	302.44
85°	179.91	154.73	131.55	118.69	116.57
90°	33.85	25.16	22.45	21.15	21.95

Average Luminaire Luminance [cd/m²]

	0°	45°	90°
0°	3,740	3,740	3,740
45°	3,481	3,364	3,325
55°	3,394	3,240	3,159
65°	3,305	3,083	2,986
75°	3,207	2,862	2,785
85°	3,102	2,268	2,010



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%	0%
	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%	30%
	0	8378	8378	8378	8378	8182	8182	8182	8182	7817	7817	7817	7483	7483	7483	7176	7176	7176	7032
	1	7632	7286	6976	6697	7438	7125	6842	6586	6823	6590	6376	6545	6355	6179	6290	6137	5994	6005
	2	6931	6340	5851	5440	6743	6205	5755	5374	5952	5573	5246	5719	5403	5125	5504	5242	5008	5125
	3	6317	5564	4982	4518	6140	5452	4912	4477	5240	4776	4395	5043	4648	4317	4861	4527	4241	4425
	4	5785	4932	4307	3830	5621	4837	4253	3802	4658	4150	3748	4492	4052	3695	4338	3958	3644	3870
	5	5322	4410	3772	3301	5173	4330	3730	3282	4179	3650	3245	4038	3573	3208	3907	3499	3173	3423
	6	4919	3975	3341	2886	4783	3907	3308	2873	3779	3245	2846	3659	3183	2820	3547	3125	2794	3059
	7	4565	3609	2989	2554	4442	3551	2963	2544	3442	2911	2525	3339	2862	2505	3243	2814	2486	2757
	8	4254	3298	2697	2284	4143	3249	2675	2276	3155	2633	2261	3066	2593	2247	2983	2554	2232	2504
	9	3978	3032	2452	2060	3878	2989	2434	2054	2908	2399	2043	2832	2366	2032	2760	2333	2020	2290
	10	3734	2802	2244	1873	3643	2765	2229	1868	2695	2200	1859	2628	2172	1850	2565	2145	1842	2107

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	69 fc	17 ft	17 ft
8 ft	39 fc	23 ft	23 ft
10 ft	25 fc	29 ft	29 ft
12 ft	17 fc	34 ft	34 ft
15 ft	11 fc	43 ft	43 ft