



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-DR5-30-80-OW-W

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

Test Number

IES-P00160

Test Date

Wed Feb 07 13:43:07 2018

The results contained in this report pertain only to the tested sample.
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RAI-R-2x4-DR5-30-80-OW-W
RAIL LED - Recessed 2x4 Downlight - White Housing - Opal Lenses - Ribbed Center
LED (3000K, 80+ CRI)

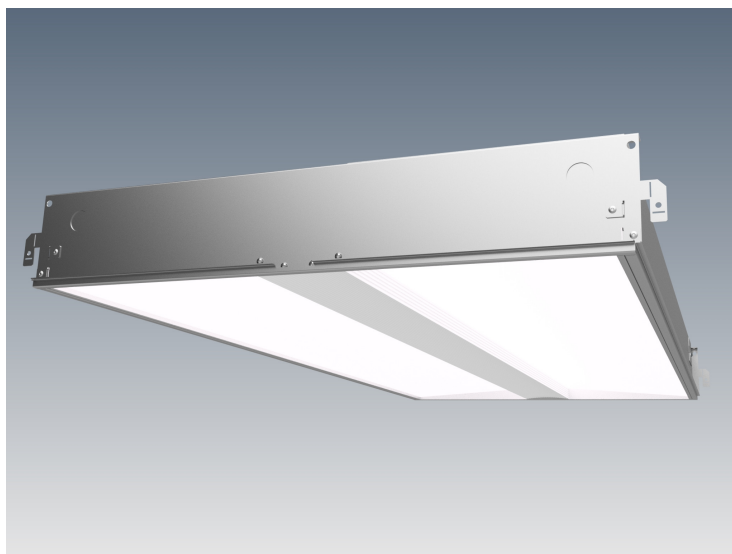


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	48.48 W
Lumens:	5000.35 lm
Efficiency:	N/A
Efficacy:	103.15 lm/W

Spacing Criterion

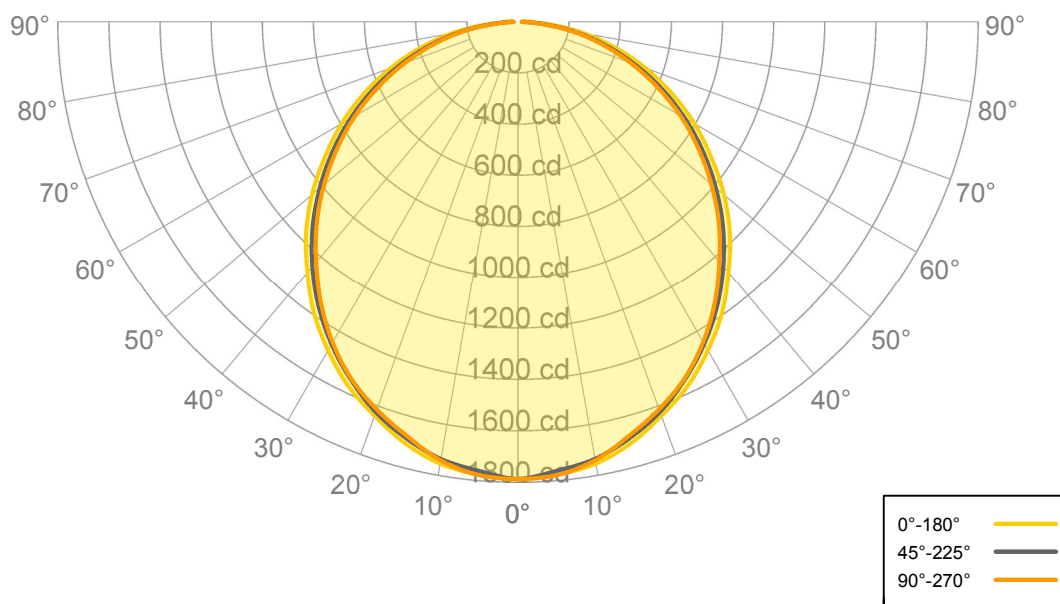
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.2
Four luminaires	1.33

Full Beam Angle

0° - 180°	112.2°
90° - 270°	107.4°

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°	201.98	4.02%	90° - 100°	4.82	0.1%
10° - 20°	475.04	9.46%	100° - 110°	0	0%
20° - 30°	712.37	14.18%	100° - 120°	0	0%
30° - 40°	848.96	16.9%	120° - 130°	0	0%
40° - 50°	874.47	17.41%	130° - 140°	0	0%
50° - 60°	791.81	15.76%	140° - 150°	0	0%
60° - 70°	617.61	12.29%	150° - 160°	0	0%
70° - 80°	380.13	7.57%	160° - 170°	0	0%
80° - 90°	121.51	2.42%	170° - 180°	0	0%
0° - 90°	5,023.88	100%	0° - 180°	5,023.88	100%



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Candela Distribution

	0°	22.5°	45°	67.5°	90°
0°	1,788.97	1,788.97	1,788.97	1,788.97	1,788.97
5°	1,776.79	1,777.98	1,764.04	1,779.65	1,780.3
10°	1,753.77	1,745.84	1,737.03	1,740.81	1,742.41
15°	1,706.01	1,693.52	1,687.07	1,686.65	1,678.05
20°	1,639.97	1,631.54	1,624.84	1,617.96	1,614.06
25°	1,571.71	1,563.78	1,545.22	1,543.26	1,541.54
30°	1,485.53	1,475.95	1,457.44	1,450.03	1,449.13
35°	1,391.48	1,373.1	1,358.73	1,343.92	1,342.76
40°	1,280.45	1,272.32	1,250.62	1,234.83	1,226.95
45°	1,172.04	1,152	1,135.06	1,118.3	1,112.25
50°	1,051.33	1,033.17	1,011.01	996.19	988.55
55°	921.63	910.71	883.92	866.15	861.15
60°	796.26	778.79	754.24	734.52	734.25
65°	664.04	645.53	621.1	605.3	600
70°	529.94	509.59	485.4	472.79	469.22
75°	395.93	375.11	353.31	345.5	340.19
80°	263.72	244.91	225.18	216.78	217.9
85°	129.03	110.36	93.81	85.36	84.48
90°	24.73	18.54	16.26	15.2	15.83

Average Luminaire Luminance [cd/m²]

	0°	45°	90°
0°	2,688	2,688	2,688
45°	2,491	2,412	2,363
55°	2,414	2,316	2,256
65°	2,361	2,208	2,133
75°	2,299	2,051	1,975
85°	2,224	1,617	1,456



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%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	5985	5985	5985	5985	5846	5846	5846	5846	5585	5585	5585	5346	5346	5346	5127	5127	5024
	1	5452	5205	4983	4784	5313	5090	4888	4705	4874	4707	4555	4676	4540	4414	4493	4384	4289
	2	4951	4529	4179	3886	4817	4432	4111	3838	4252	3981	3747	4085	3859	3660	3931	3744	3661
	3	4513	3975	3559	3227	4386	3894	3508	3197	3743	3412	3139	3602	3320	3083	3472	3233	3161
	4	4132	3523	3076	2735	4015	3455	3038	2715	3327	2964	2677	3209	2894	2639	3098	2827	2764
	5	3802	3150	2694	2358	3695	3093	2665	2344	2985	2607	2318	2884	2552	2291	2790	2499	2445
	6	3514	2839	2386	2062	3417	2791	2363	2052	2699	2317	2033	2614	2274	2014	2533	2232	2184
	7	3261	2578	2135	1824	3173	2537	2116	1817	2458	2079	1803	2385	2044	1789	2316	2010	1969
	8	3039	2356	1926	1631	2959	2321	1911	1626	2253	1881	1615	2190	1852	1605	2131	1824	1788
	9	2842	2166	1751	1471	2770	2135	1739	1467	2077	1714	1459	2023	1690	1451	1971	1667	1635
	10	2667	2001	1603	1337	2602	1975	1592	1334	1925	1572	1328	1877	1552	1321	1832	1532	1505

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	50 fc	17 ft	17 ft
8 ft	28 fc	23 ft	23 ft
10 ft	18 fc	28 ft	28 ft
12 ft	12 fc	34 ft	34 ft
15 ft	8 fc	43 ft	43 ft