



PICASSO LIGHTING INDUSTRIES, LLC
320 West Commerical Ave., Moonachie, NJ 07074
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

320 West Commerical Ave.
Moonachie, NJ 07074

Photopia Photometric Analysis & Optical Design

Catalog Number

MX2.5-RD-4-D10-30-80-FWD.5-W

MAX2.5 - White Housing - Recessed - Semi-Direct - Frosted White .5" Drop Lens

Test Number

IES-P00381

Test Date

Tue Oct 12 10:54:29 2021

The results contained in this report pertain only to the tested sample.
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MX2.5-RD-4-D10-30-80-FWD.5-W
MAX2.5 - White Housing - Recessed - Semi-Direct - Frosted White .5" Drop Lens
LED (3000K 80+ CRI)

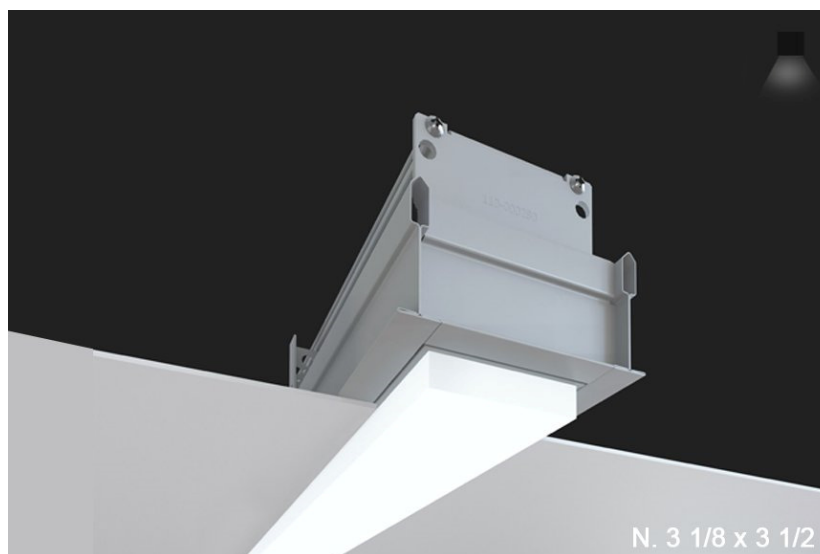


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	47.72 W
Lumens:	4,393.48 lm
Efficiency:	N/A
Efficacy:	90.66 lm/W

Spacing Criterion

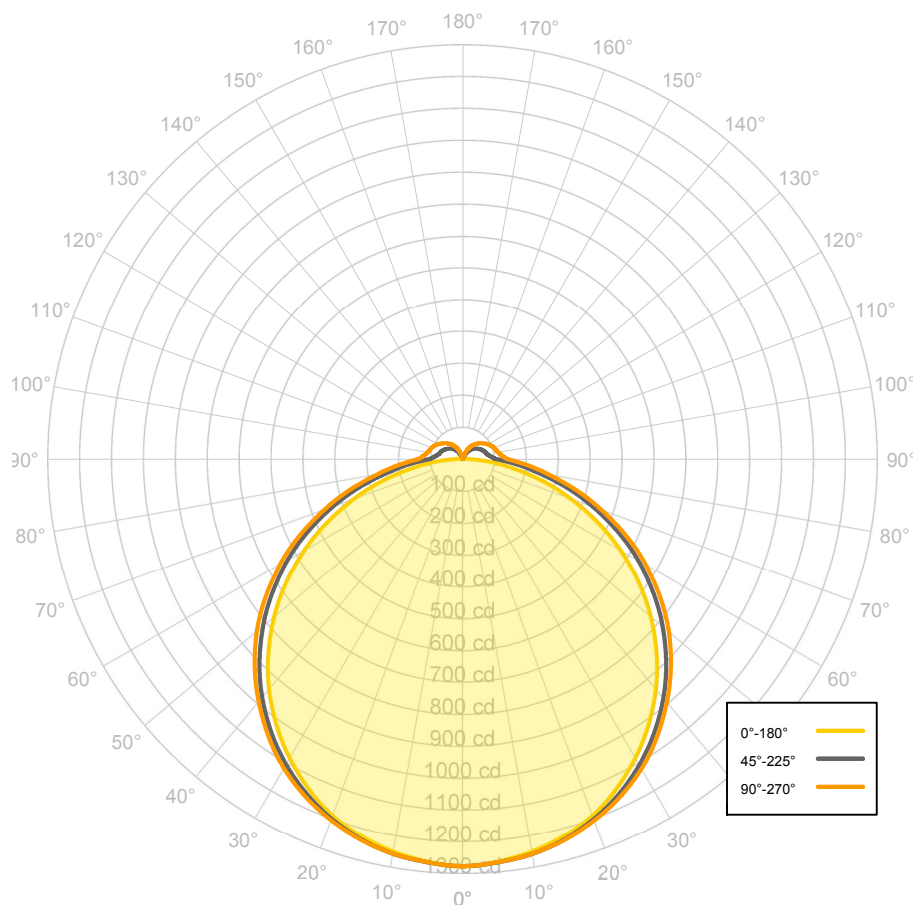
Two luminaires, plane 0°	1.25
Two luminaires, plane 90°	1.3
Four luminaires	1.4

Full Beam Angle

0° - 180°	113.23°
90° - 270°	122.21°

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°	217.47	4.95%	90° - 100°	88.22	2.01%
10° - 20°	344.77	7.85%	100° - 110°	70.07	1.59%
20° - 30°	528.19	12.02%	100° - 120°	128.07	2.91%
30° - 40°	646.17	14.71%	120° - 130°	43.81	1.00%
40° - 50°	684.41	15.58%	130° - 140°	29.60	0.67%
50° - 60°	638.14	14.52%	140° - 150°	16.56	0.38%
60° - 70°	513.42	11.69%	150° - 160°	6.06	0.14%
70° - 80°	336.84	7.67%	160° - 170°	0.83	0.02%
80° - 90°	170.91	3.89%	170° - 180°	0.01	0.00%
0° - 90°	4,080.32	92.87%	0° - 180°	4,393.48	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,279.08	1,279.08	1,279.08	1,279.08	1,279.08
10.00°	1,251.16	1,254.95	1,259.70	1,261.26	1,259.30
20.00°	1,190.13	1,194.72	1,203.97	1,210.59	1,208.68
30.00°	1,082.79	1,094.16	1,109.39	1,120.39	1,123.00
40.00°	942.89	957.25	979.86	992.45	996.80
50.00°	770.02	789.80	819.03	837.92	844.43
60.00°	572.75	597.26	634.30	655.10	661.99
70.00°	360.35	391.29	429.96	452.47	458.61
80.00°	158.32	191.54	230.70	257.53	266.72
90.00°	25.46	58.33	101.21	128.94	136.92
100.00°	6.13	37.20	78.21	104.13	112.76
110.00°	3.06	32.51	70.63	95.88	103.51
120.00°	0.39	26.46	60.65	82.65	90.89
130.00°	0.04	17.50	49.64	69.31	75.57
140.00°	0.03	7.65	37.38	53.65	60.11
150.00°	0.03	0.80	18.76	36.32	40.91
160.00°	0.03	0.06	1.51	9.35	13.55
170.00°	0.03	0.04	0.03	0.04	0.03
180.00°	0.03	0.03	0.03	0.03	0.03

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	16,802	16,802	16,802
45.00°	15,743	14,543	14,252
55.00°	15,146	13,723	13,417
65.00°	14,179	12,536	12,188
75.00°	12,661	10,776	10,539
85.00°	12,353	9,257	9,257



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	5,156	5,156	5,156	5,156	4,999	4,999	4,999	4,999	4,708	4,708	4,708	4,441	4,441	4,441	4,196	4,196	4,196	4,080
	1	4,663	4,436	4,233	4,050	4,510	4,305	4,121	3,954	4,060	3,909	3,772	3,834	3,713	3,600	3,626	3,529	3,439	3,324
	2	4,228	3,849	3,537	3,274	4,081	3,739	3,453	3,210	3,530	3,293	3,087	3,339	3,142	2,970	3,161	3,001	2,858	2,744
	3	3,850	3,374	3,006	2,713	3,713	3,280	2,941	2,668	3,104	2,817	2,580	2,940	2,699	2,496	2,788	2,587	2,414	2,303
	4	3,525	2,989	2,596	2,297	3,398	2,909	2,545	2,263	2,758	2,446	2,198	2,618	2,351	2,135	2,488	2,261	2,073	1,966
	5	3,243	2,672	2,273	1,979	3,127	2,604	2,232	1,953	2,475	2,151	1,903	2,355	2,074	1,854	2,243	2,001	1,806	1,704
	6	2,998	2,409	2,014	1,731	2,893	2,351	1,980	1,710	2,240	1,914	1,671	2,136	1,850	1,632	2,039	1,789	1,593	1,496
	7	2,783	2,188	1,803	1,532	2,688	2,138	1,774	1,516	2,042	1,719	1,484	1,952	1,666	1,452	1,867	1,614	1,421	1,328
	8	2,595	2,001	1,628	1,372	2,508	1,957	1,604	1,358	1,874	1,557	1,331	1,795	1,512	1,305	1,721	1,468	1,279	1,191
	9	2,428	1,841	1,482	1,239	2,350	1,803	1,462	1,228	1,730	1,422	1,206	1,661	1,383	1,183	1,596	1,345	1,161	1,078
10	2,280	1,704	1,359	1,129	2,209	1,670	1,341	1,119	1,606	1,307	1,100	1,545	1,273	1,081	1,487	1,241	1,063	984	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	36 fc	18 ft	22 ft
8 ft	20 fc	24 ft	29 ft
10 ft	13 fc	30 ft	36 ft
12 ft	9 fc	36 ft	43 ft
15 ft	6 fc	46 ft	54 ft