



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

KAY-PWD-4-D3-I3-30-80-FWD.5-MC-W

KAYLA 1/2" Drop - 4' Up/Downlight - White Housing - Frosted White / Matte Clear Lenses

Test Number

IES-P00314

Test Date

Tue Mar 24 10:31:47 2020

The results contained in this report pertain only to the tested sample.
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KAY-PWD-4-D3-I3-30-80-FWD.5-MC-W
 KAYLA 1/2" Drop - 4' Up/Downlight - White Housing - Frosted White / Matte Clear Lenses
 LED (3000K 80+ CRI)

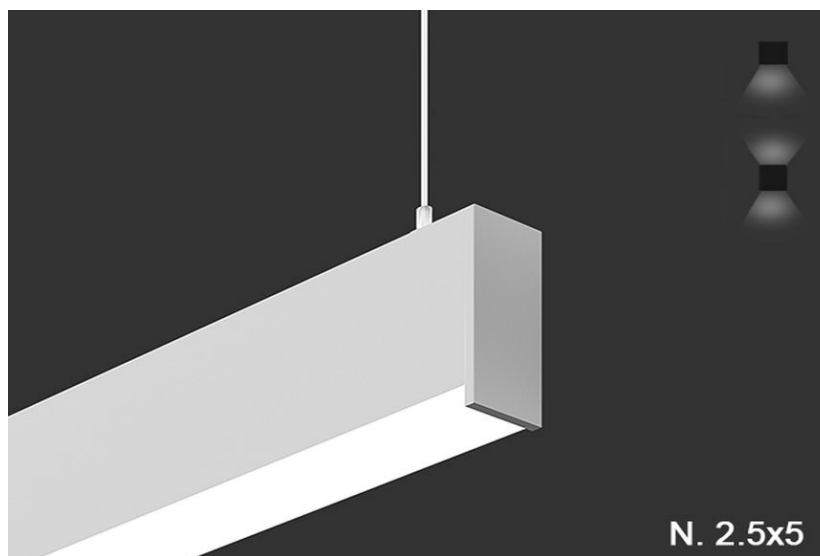


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	36.21 W
Lumens:	2,899.42 lm
Efficiency:	N/A
Efficacy:	78.53 lm/W

Spacing Criterion

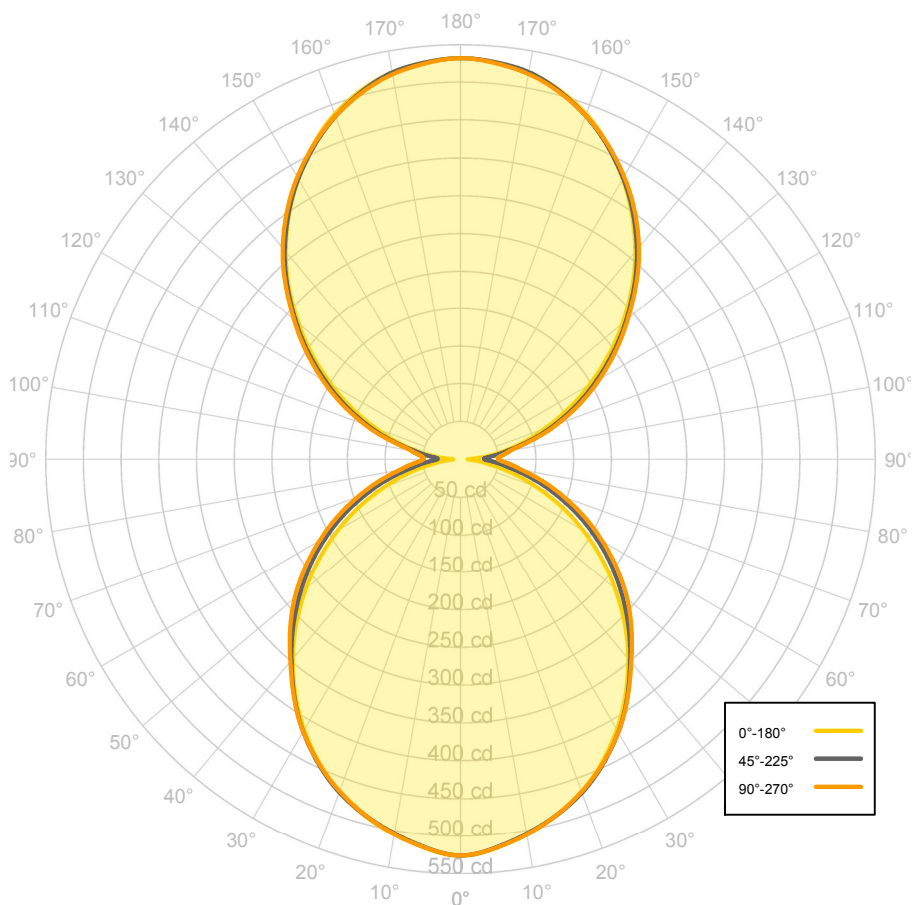
Two luminaires, plane 0°	1.17
Two luminaires, plane 90°	1.18
Four luminaires	1.3

Full Beam Angle

0° - 180°	256.6°
90° - 270°	253.8°

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°	88.49	3.05%	90° - 100°	50.50	1.74%
10° - 20°	136.42	4.71%	100° - 110°	101.36	3.50%
20° - 30°	202.60	6.99%	100° - 120°	266.86	9.20%
30° - 40°	237.49	8.19%	120° - 130°	218.06	7.52%
40° - 50°	239.98	8.28%	130° - 140°	247.93	8.55%
50° - 60°	213.34	7.36%	140° - 150°	246.02	8.49%
60° - 70°	162.53	5.61%	150° - 160°	208.93	7.21%
70° - 80°	99.53	3.43%	160° - 170°	140.46	4.84%
80° - 90°	50.01	1.72%	170° - 180°	90.28	3.11%
0° - 90°	1,430.39	49.33%	0° - 180°	2,899.42	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	526.85	526.85	526.85	526.85	526.85
10.00°	505.83	507.01	505.58	507.82	506.64
20.00°	469.48	471.58	471.76	471.27	470.30
30.00°	414.41	416.24	418.76	419.02	418.92
40.00°	345.79	347.66	349.80	352.72	352.17
50.00°	267.39	271.73	279.08	285.57	288.30
60.00°	187.34	193.46	205.35	213.34	215.97
70.00°	107.57	117.41	130.49	139.77	143.82
80.00°	39.65	49.04	63.67	75.60	80.47
90.00°	9.32	16.12	30.97	44.36	49.19
100.00°	53.48	59.47	64.10	67.29	68.74
110.00°	118.33	124.90	133.12	137.53	138.17
120.00°	197.30	201.59	208.52	211.99	213.64
130.00°	280.20	282.00	286.74	289.95	289.69
140.00°	360.37	360.21	363.78	366.24	368.08
150.00°	429.93	429.23	430.86	432.39	433.49
160.00°	487.69	483.92	484.81	486.24	485.04
170.00°	521.35	522.73	521.46	520.43	518.94
180.00°	532.23	532.23	532.23	532.23	532.23

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6,805	6,805	6,805
45.00°	5,060	2,274	1,918
55.00°	4,443	1,716	1,445
65.00°	3,667	1,201	1,019
75.00°	2,627	724	647
85.00°	1,634	380	393



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	3,102	3,102	3,102	3,102	2,859	2,859	2,859	2,859	2,405	2,405	2,405	1,991	1,991	1,991	1,609	1,609	1,609	1,430
	1	2,822	2,693	2,577	2,472	2,595	2,485	2,385	2,295	2,096	2,023	1,957	1,738	1,687	1,640	1,408	1,374	1,341	1,186
	2	2,569	2,352	2,172	2,020	2,360	2,173	2,016	1,884	1,836	1,720	1,620	1,526	1,442	1,369	1,239	1,181	1,129	993
	3	2,345	2,069	1,855	1,684	2,152	1,914	1,726	1,576	1,621	1,480	1,364	1,351	1,247	1,160	1,100	1,027	964	844
	4	2,147	1,833	1,603	1,428	1,971	1,698	1,496	1,339	1,443	1,288	1,166	1,207	1,091	997	987	903	834	728
	5	1,973	1,636	1,401	1,227	1,811	1,518	1,309	1,153	1,295	1,133	1,009	1,086	964	868	892	802	730	636
	6	1,820	1,470	1,235	1,067	1,672	1,366	1,157	1,005	1,169	1,005	883	985	860	764	813	720	647	562
	7	1,685	1,329	1,099	937	1,549	1,237	1,031	885	1,063	900	781	899	773	679	745	651	579	503
	8	1,565	1,209	985	831	1,441	1,127	926	786	972	811	697	825	700	609	688	593	522	454
	9	1,459	1,106	890	744	1,345	1,033	838	704	893	737	627	762	639	550	638	544	475	413
	10	1,366	1,017	809	670	1,260	952	763	636	826	673	568	707	586	501	595	502	435	378

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	15 fc	0 ft	0 ft
8 ft	8 fc	0 ft	0 ft
10 ft	5 fc	0 ft	0 ft
12 ft	4 fc	0 ft	0 ft
15 ft	2 fc	0 ft	0 ft