



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-I7-30-80-FWD.5-MC-W

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

Test Number

IES-P00316

Test Date

Tue Mar 24 12:01:55 2020

The results contained in this report pertain only to the tested sample.
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KAY-PWD-4-D3-I7-30-80-FWD.5-MC-W
KAYLA 1/2" Drop - 4' Up/Downlight - White Housing - Frosted White / Matte Clear Lenses
LED (3000K 80+ CRI)

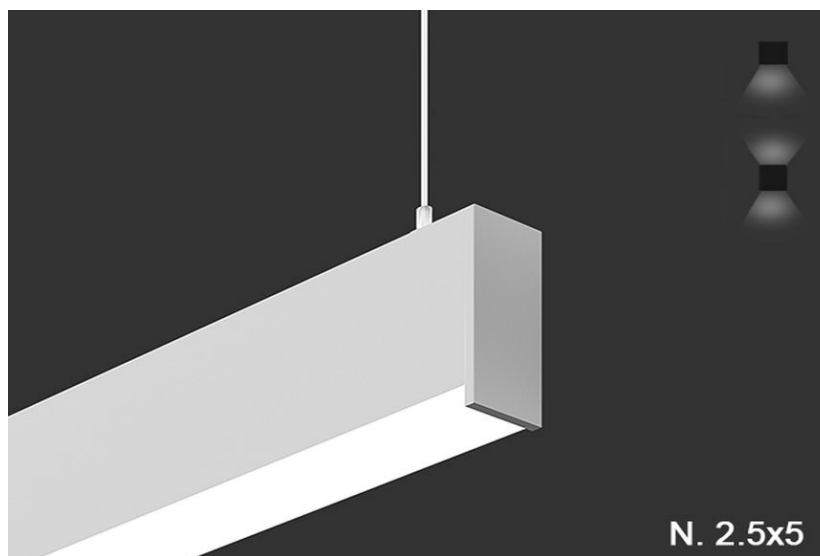


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	51.07 W
Lumens:	4,462.56 lm
Efficiency:	N/A
Efficacy:	85.66 lm/W

Spacing Criterion

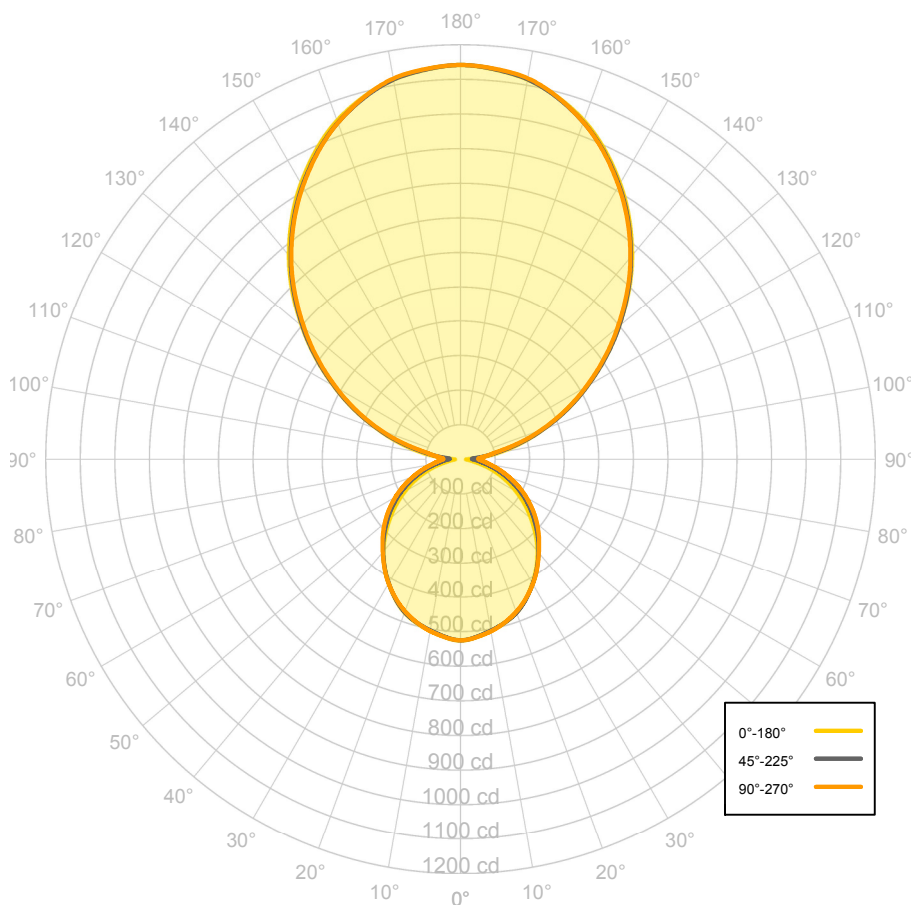
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.18
Four luminaires	1.3

Full Beam Angle

0° - 180°	360°
90° - 270°	360°

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°	88.53	1.98%	90° - 100°	75.20	1.69%
10° - 20°	136.77	3.06%	100° - 110°	189.69	4.25%
20° - 30°	202.77	4.54%	100° - 120°	522.41	11.71%
30° - 40°	237.52	5.32%	120° - 130°	451.00	10.11%
40° - 50°	239.79	5.37%	130° - 140°	520.72	11.67%
50° - 60°	212.94	4.77%	140° - 150°	521.58	11.69%
60° - 70°	162.47	3.64%	150° - 160°	445.83	9.99%
70° - 80°	99.55	2.23%	160° - 170°	300.86	6.74%
80° - 90°	51.05	1.14%	170° - 180°	193.54	4.34%
0° - 90°	1,431.41	32.08%	0° - 180°	4,462.56	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	526.20	526.20	526.20	526.20	526.20
10.00°	505.73	509.14	505.47	509.40	507.54
20.00°	473.93	472.97	473.94	470.58	471.10
30.00°	415.98	416.91	417.34	418.18	417.97
40.00°	346.10	348.06	350.17	353.22	352.11
50.00°	266.24	271.54	278.74	284.19	287.36
60.00°	185.75	192.89	205.48	213.26	217.06
70.00°	107.66	116.84	130.58	140.43	143.90
80.00°	38.98	48.94	63.80	75.80	80.48
90.00°	15.74	18.64	31.99	44.84	50.14
100.00°	113.14	115.65	106.64	99.37	98.36
110.00°	253.86	258.38	258.72	256.02	252.96
120.00°	422.25	425.34	424.92	421.06	420.08
130.00°	599.03	597.24	599.08	594.68	593.04
140.00°	772.50	770.91	767.43	765.65	764.52
150.00°	923.29	918.90	916.73	915.45	913.92
160.00°	1,044.10	1,041.48	1,038.16	1,036.12	1,037.79
170.00°	1,116.41	1,117.65	1,116.55	1,115.95	1,119.78
180.00°	1,141.29	1,141.29	1,141.29	1,141.29	1,141.29

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6,797	6,797	6,797
45.00°	5,053	2,274	1,915
55.00°	4,416	1,715	1,446
65.00°	3,648	1,202	1,022
75.00°	2,616	725	647
85.00°	1,826	385	396



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%	
	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	4,591	4,591	4,591	4,591	4,132	4,132	4,132	4,132	3,274	3,274	3,274	2,490	2,490	2,490	1,770	1,770	1,770	1,431
	1	4,176	3,983	3,811	3,656	3,750	3,589	3,445	3,314	2,851	2,752	2,662	2,173	2,109	2,050	1,548	1,510	1,474	1,187
	2	3,801	3,478	3,211	2,987	3,408	3,137	2,911	2,719	2,498	2,339	2,203	1,908	1,803	1,711	1,362	1,298	1,241	994
	3	3,467	3,056	2,738	2,485	3,106	2,760	2,489	2,270	2,203	2,010	1,851	1,687	1,557	1,448	1,209	1,127	1,058	844
	4	3,170	2,703	2,361	2,099	2,840	2,445	2,150	1,923	1,957	1,745	1,577	1,504	1,358	1,241	1,082	990	914	728
	5	2,908	2,406	2,055	1,795	2,606	2,179	1,875	1,648	1,750	1,528	1,359	1,350	1,196	1,076	977	878	799	636
	6	2,677	2,154	1,804	1,552	2,400	1,954	1,650	1,428	1,575	1,350	1,183	1,221	1,063	942	889	786	706	563
	7	2,472	1,941	1,597	1,355	2,219	1,764	1,463	1,249	1,426	1,202	1,039	1,110	952	833	814	710	630	503
	8	2,291	1,759	1,424	1,194	2,059	1,601	1,307	1,102	1,299	1,079	921	1,016	858	743	750	645	567	454
	9	2,131	1,603	1,279	1,060	1,917	1,461	1,176	981	1,190	974	823	935	779	668	694	590	514	413
10	1,989	1,468	1,156	948	1,792	1,340	1,065	879	1,095	886	741	864	712	604	646	543	469	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