



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-I5-30-80-FWD.5-MC-W

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

Test Number

IES-P00315

Test Date

Tue Mar 24 11:30:24 2020

The results contained in this report pertain only to the tested sample.
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KAY-PWD-4-D3-I5-30-80-FWD.5-MC-W
KAYLA 1/2" Drop - 4' Up/Downlight - White Housing - Frosted White / Matte Clear Lenses
LED (3000K 80+ CRI)

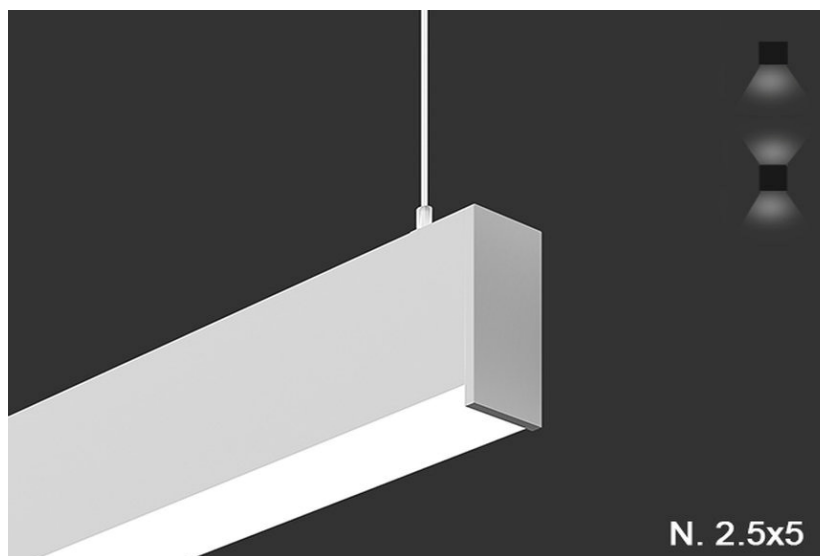


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	41.63 W
Lumens:	3,485.74 lm
Efficiency:	N/A
Efficacy:	82.1 lm/W

Spacing Criterion

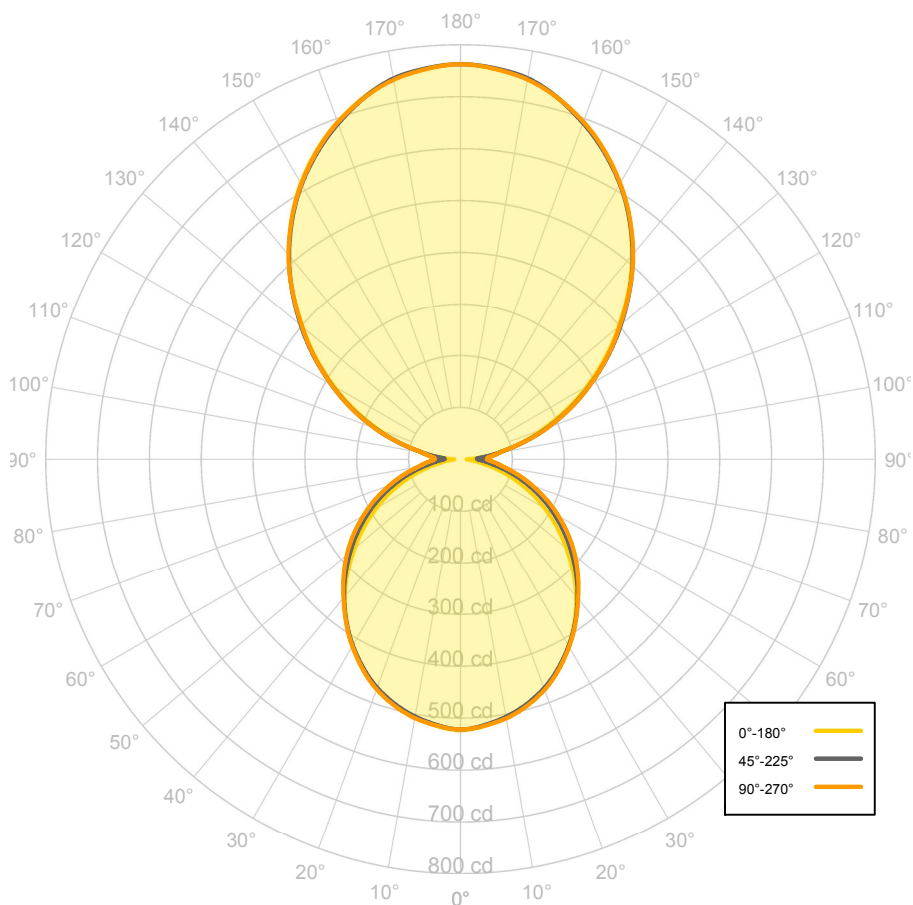
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.19
Four luminaires	1.31

Full Beam Angle

0° - 180°	257.11°
90° - 270°	256.34°

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°	88.31	2.53%	90° - 100°	59.84	1.72%
10° - 20°	136.74	3.92%	100° - 110°	134.44	3.86%
20° - 30°	202.78	5.82%	100° - 120°	362.80	10.41%
30° - 40°	237.50	6.81%	120° - 130°	305.45	8.76%
40° - 50°	239.65	6.88%	130° - 140°	350.32	10.05%
50° - 60°	212.80	6.10%	140° - 150°	349.90	10.04%
60° - 70°	162.41	4.66%	150° - 160°	297.72	8.54%
70° - 80°	99.64	2.86%	160° - 170°	200.27	5.75%
80° - 90°	50.51	1.45%	170° - 180°	129.10	3.70%
0° - 90°	1,430.34	41.03%	0° - 180°	3,485.74	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	523.06	523.06	523.06	523.06	523.06
10.00°	506.86	508.75	506.13	508.31	509.08
20.00°	472.19	471.52	471.20	472.95	474.51
30.00°	416.82	416.53	417.10	418.81	418.82
40.00°	346.95	347.45	350.80	351.68	352.45
50.00°	266.04	270.57	278.39	285.13	287.14
60.00°	186.78	192.85	204.72	213.43	216.05
70.00°	107.81	117.25	130.49	140.18	143.77
80.00°	39.41	49.27	63.99	75.64	80.57
90.00°	11.61	17.07	31.19	44.70	50.09
100.00°	75.78	80.32	80.27	79.35	80.56
110.00°	168.42	174.44	179.97	182.38	181.22
120.00°	281.67	286.50	289.92	291.46	290.59
130.00°	398.02	400.30	404.08	403.74	401.53
140.00°	514.57	515.55	516.42	516.41	518.09
150.00°	615.90	614.96	613.81	613.04	615.01
160.00°	693.16	692.42	690.30	690.27	692.68
170.00°	745.52	742.55	746.60	742.73	743.93
180.00°	762.43	762.43	762.43	762.43	762.43

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6,756	6,756	6,756
45.00°	5,058	2,275	1,915
55.00°	4,424	1,711	1,442
65.00°	3,663	1,199	1,019
75.00°	2,627	725	647
85.00°	1,702	383	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%	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	3,660	3,660	3,660	3,660	3,336	3,336	3,336	3,336	2,731	2,731	2,731	2,178	2,178	2,178	1,669	1,669	1,669	1,430
	1	3,330	3,177	3,040	2,916	3,028	2,899	2,782	2,677	2,379	2,296	2,221	1,901	1,845	1,793	1,460	1,424	1,391	1,186
	2	3,031	2,774	2,561	2,383	2,753	2,534	2,352	2,197	2,084	1,952	1,839	1,669	1,577	1,497	1,285	1,224	1,171	993
	3	2,766	2,439	2,186	1,985	2,510	2,231	2,012	1,836	1,839	1,679	1,547	1,477	1,363	1,268	1,141	1,064	999	844
	4	2,531	2,159	1,887	1,679	2,297	1,978	1,741	1,558	1,636	1,459	1,320	1,318	1,191	1,088	1,022	935	863	727
	5	2,324	1,925	1,646	1,440	2,109	1,766	1,522	1,339	1,465	1,281	1,140	1,185	1,051	946	924	831	756	636
	6	2,141	1,727	1,449	1,249	1,945	1,587	1,342	1,164	1,321	1,135	996	1,073	936	831	841	744	669	562
	7	1,980	1,559	1,286	1,094	1,800	1,435	1,193	1,021	1,199	1,013	878	978	840	737	771	673	598	503
	8	1,837	1,415	1,150	967	1,673	1,305	1,069	905	1,094	912	781	897	759	659	711	612	539	454
	9	1,711	1,292	1,036	862	1,560	1,193	965	808	1,005	826	701	827	691	594	659	561	489	413
10	1,599	1,186	939	775	1,460	1,097	876	727	927	753	633	766	633	540	614	517	448	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