



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-D5-I7-30-80-FWD.5-MC-W

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

Test Number

IES-P00319

Test Date

Tue Mar 24 14:01:39 2020

The results contained in this report pertain only to the tested sample.
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KAY-PWD-4-D5-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)

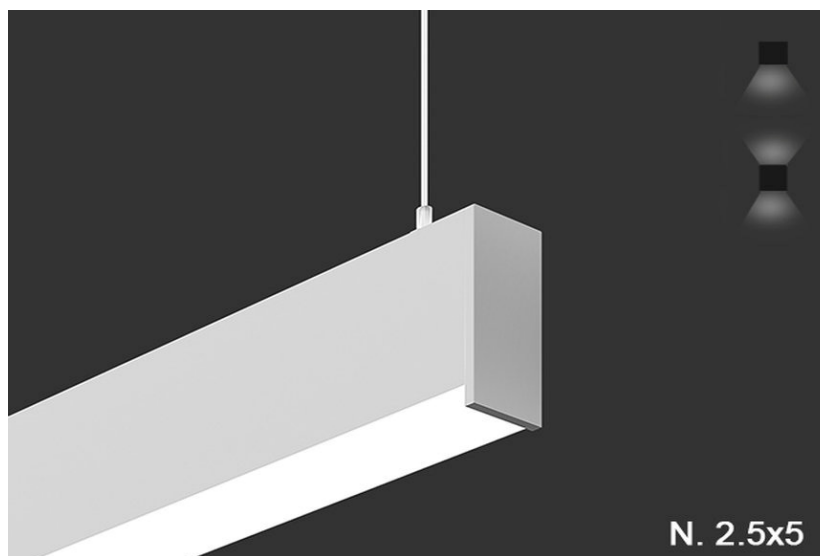


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	60.14 W
Lumens:	5,120.91 lm
Efficiency:	N/A
Efficacy:	83.49 lm/W

Spacing Criterion

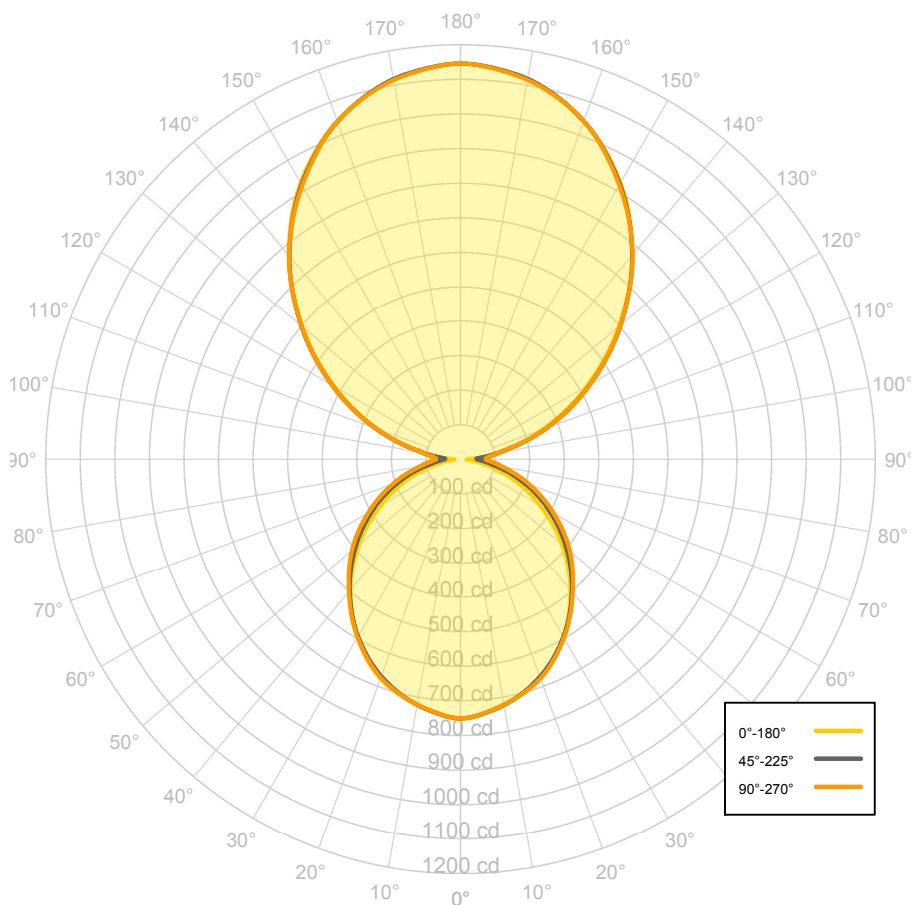
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.18
Four luminaires	1.3

Full Beam Angle

0° - 180°	257.15°
90° - 270°	256.38°

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°	126.36	2.47%	90° - 100°	87.67	1.71%
10° - 20°	195.02	3.81%	100° - 110°	199.98	3.91%
20° - 30°	289.42	5.65%	100° - 120°	540.76	10.56%
30° - 40°	339.30	6.63%	120° - 130°	457.08	8.93%
40° - 50°	343.06	6.70%	130° - 140°	524.70	10.25%
50° - 60°	304.50	5.95%	140° - 150°	523.96	10.23%
60° - 70°	232.21	4.53%	150° - 160°	447.13	8.73%
70° - 80°	142.55	2.78%	160° - 170°	301.13	5.88%
80° - 90°	72.21	1.41%	170° - 180°	193.84	3.79%
0° - 90°	2,044.64	39.93%	0° - 180°	5,120.91	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	752.27	752.27	752.27	752.27	752.27
10.00°	720.80	725.80	724.74	721.29	723.95
20.00°	676.56	674.16	671.70	673.32	676.15
30.00°	595.02	596.16	595.27	596.14	598.35
40.00°	494.60	496.51	500.55	504.49	504.50
50.00°	382.81	387.77	398.54	408.62	411.35
60.00°	264.96	276.67	293.03	304.14	307.54
70.00°	154.65	167.62	187.28	200.69	205.90
80.00°	56.25	70.21	90.86	108.31	115.31
90.00°	16.80	24.62	44.82	64.06	71.50
100.00°	112.80	119.65	118.65	116.16	117.95
110.00°	253.22	260.81	268.53	271.36	269.48
120.00°	421.02	428.48	432.72	433.30	433.77
130.00°	597.95	600.45	604.72	605.87	603.51
140.00°	772.71	770.50	772.62	771.63	774.32
150.00°	925.27	919.84	920.86	922.24	917.24
160.00°	1,042.15	1,040.99	1,041.43	1,038.92	1,041.60
170.00°	1,115.29	1,119.14	1,118.08	1,114.56	1,115.35
180.00°	1,145.50	1,145.50	1,145.50	1,145.50	1,145.50

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	9,717	9,717	9,717
45.00°	7,241	3,252	2,742
55.00°	6,328	2,450	2,060
65.00°	5,217	1,718	1,454
75.00°	3,763	1,037	926
85.00°	2,437	545	566



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	5,364	5,364	5,364	5,364	4,881	4,881	4,881	4,881	3,981	3,981	3,981	3,157	3,157	3,157	2,400	2,400	2,400	2,045
	1	4,879	4,655	4,454	4,273	4,431	4,241	4,071	3,916	3,467	3,347	3,237	2,755	2,674	2,599	2,100	2,048	2,000	1,695
	2	4,442	4,065	3,753	3,491	4,027	3,708	3,441	3,214	3,037	2,845	2,680	2,419	2,286	2,170	1,847	1,760	1,683	1,419
	3	4,053	3,573	3,203	2,908	3,672	3,264	2,944	2,686	2,680	2,446	2,254	2,141	1,976	1,837	1,640	1,530	1,435	1,206
	4	3,708	3,163	2,764	2,460	3,359	2,893	2,546	2,278	2,383	2,126	1,923	1,910	1,726	1,577	1,469	1,344	1,241	1,040
	5	3,404	2,819	2,410	2,108	3,085	2,582	2,225	1,957	2,134	1,866	1,660	1,717	1,523	1,370	1,328	1,194	1,086	908
	6	3,136	2,528	2,120	1,828	2,844	2,320	1,961	1,700	1,924	1,652	1,449	1,555	1,355	1,203	1,209	1,070	961	804
	7	2,900	2,282	1,881	1,601	2,632	2,097	1,743	1,492	1,746	1,475	1,277	1,417	1,216	1,066	1,108	966	858	718
	8	2,691	2,071	1,682	1,414	2,445	1,907	1,561	1,321	1,593	1,326	1,136	1,299	1,099	953	1,021	880	774	648
	9	2,505	1,891	1,515	1,260	2,280	1,744	1,408	1,179	1,462	1,201	1,018	1,197	1,000	859	947	806	703	589
10	2,341	1,735	1,373	1,131	2,133	1,603	1,279	1,060	1,348	1,095	920	1,109	916	780	882	743	643	540	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	21 fc	0 ft	0 ft
8 ft	12 fc	0 ft	0 ft
10 ft	8 fc	0 ft	0 ft
12 ft	5 fc	0 ft	0 ft
15 ft	3 fc	0 ft	0 ft