



**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-I10-30-80-FWD.5-MC-W

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

##### **Test Number**

IES-P00322

##### **Test Date**

Mon Mar 30 10:46:50 2020

The results contained in this report pertain only to the tested sample.  
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KAY-PWD-4-D3-I10-30-80-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:

<b>Watts:</b>	60.69 W
<b>Lumens:</b>	5,437.29 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	87.82 lm/W

#### Spacing Criterion

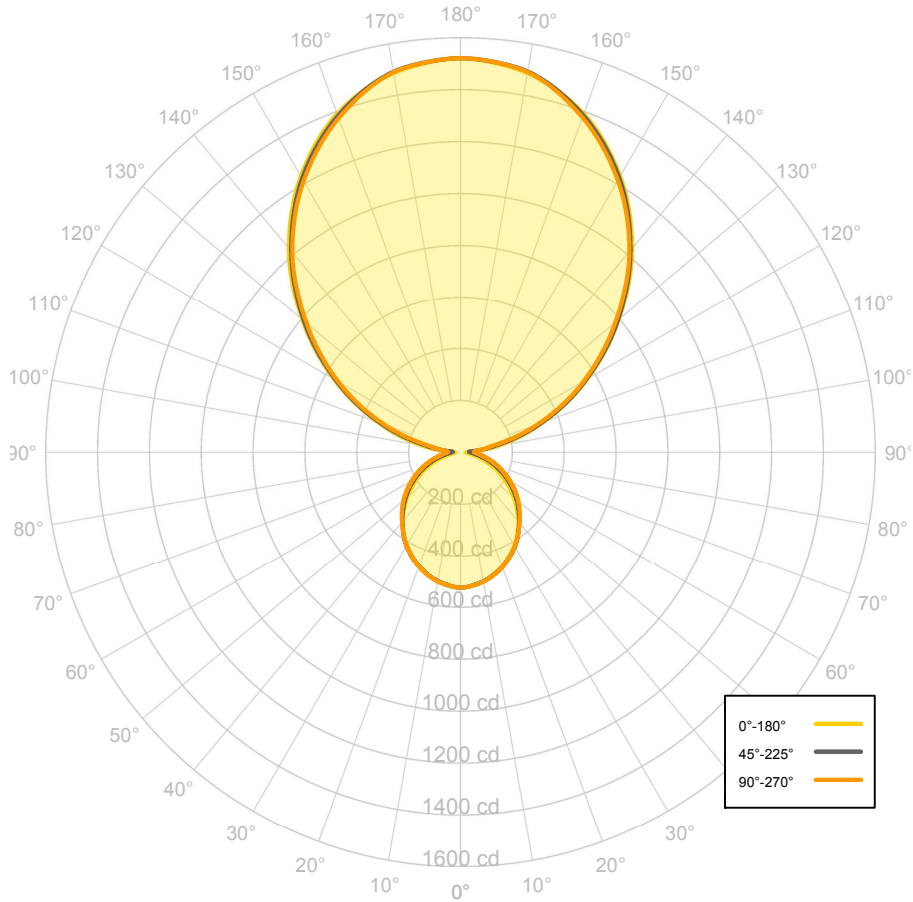
<b>Two luminaires, plane 0°</b>	1.18
<b>Two luminaires, plane 90°</b>	1.19
<b>Four luminaires</b>	1.3

#### Full Beam Angle

<b>0° - 180°</b>	360°
<b>90° - 270°</b>	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°	88.47	1.63%	90° - 100°	90.80	1.67%
10° - 20°	136.48	2.51%	100° - 110°	244.51	4.50%
20° - 30°	202.82	3.73%	100° - 120°	681.54	12.53%
30° - 40°	237.72	4.37%	120° - 130°	596.21	10.97%
40° - 50°	239.74	4.41%	130° - 140°	690.27	12.70%
50° - 60°	213.02	3.92%	140° - 150°	694.07	12.77%
60° - 70°	162.44	2.99%	150° - 160°	593.74	10.92%
70° - 80°	99.63	1.83%	160° - 170°	400.55	7.37%
80° - 90°	51.73	0.95%	170° - 180°	258.05	4.75%
0° - 90°	1,432.06	26.34%	0° - 180°	5,437.29	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	524.92	524.92	524.92	524.92	524.92
10.00°	508.61	509.82	507.72	506.06	508.71
20.00°	470.56	471.71	471.08	469.16	471.53
30.00°	415.52	418.70	420.22	419.09	418.42
40.00°	345.91	346.87	350.69	351.20	353.39
50.00°	266.94	271.42	279.52	284.07	288.09
60.00°	185.79	193.81	205.09	213.07	215.55
70.00°	107.69	117.18	130.40	140.17	144.34
80.00°	39.18	49.38	63.36	75.91	80.94
90.00°	19.58	20.28	32.03	45.55	50.62
100.00°	151.48	149.98	134.36	120.45	115.88
110.00°	337.92	340.30	337.66	327.86	322.99
120.00°	563.25	566.04	559.96	553.25	550.59
130.00°	796.49	792.89	792.40	783.63	779.63
140.00°	1,030.00	1,024.61	1,019.79	1,015.68	1,013.07
150.00°	1,231.85	1,230.13	1,223.55	1,216.55	1,212.32
160.00°	1,390.94	1,385.73	1,383.45	1,376.25	1,374.60
170.00°	1,486.54	1,495.59	1,491.84	1,484.73	1,489.76
180.00°	1,520.76	1,520.76	1,520.76	1,520.76	1,520.76

**Average Luminaire Luminance [cd/m²]**

	0.00°	45.00°	90.00°
0.00°	6,780	6,780	6,780
45.00°	5,057	2,279	1,921
55.00°	4,423	1,717	1,443
65.00°	3,649	1,200	1,019
75.00°	2,620	722	650
85.00°	1,961	383	399



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
	<b>pcc</b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
<b>RCR</b>	<b>0</b>	5,519	5,519	5,519	5,519	4,925	4,925	4,925	4,925	3,816	3,816	3,816	2,802	2,802	2,802	1,870	1,870	1,870	1,432
	<b>1</b>	5,020	4,788	4,581	4,394	4,469	4,278	4,105	3,949	3,322	3,207	3,101	2,444	2,372	2,305	1,635	1,595	1,557	1,187
	<b>2</b>	4,569	4,180	3,859	3,589	4,062	3,739	3,469	3,240	2,910	2,725	2,566	2,145	2,027	1,924	1,438	1,370	1,310	993
	<b>3</b>	4,166	3,672	3,289	2,984	3,701	3,288	2,964	2,703	2,565	2,340	2,155	1,896	1,750	1,626	1,276	1,190	1,116	844
	<b>4</b>	3,808	3,245	2,833	2,518	3,382	2,910	2,558	2,286	2,277	2,029	1,833	1,689	1,525	1,392	1,142	1,044	963	728
	<b>5</b>	3,491	2,885	2,462	2,150	3,101	2,591	2,228	1,956	2,034	1,775	1,576	1,515	1,341	1,205	1,030	925	841	636
	<b>6</b>	3,210	2,581	2,158	1,855	2,854	2,321	1,956	1,691	1,828	1,565	1,369	1,367	1,189	1,053	936	827	742	563
	<b>7</b>	2,963	2,322	1,907	1,616	2,636	2,091	1,732	1,476	1,653	1,391	1,200	1,242	1,062	928	857	746	661	503
	<b>8</b>	2,744	2,101	1,697	1,419	2,443	1,895	1,544	1,299	1,503	1,245	1,061	1,135	956	826	788	677	594	454
	<b>9</b>	2,550	1,912	1,521	1,257	2,273	1,727	1,386	1,152	1,374	1,122	945	1,042	866	740	729	619	538	413
	<b>10</b>	2,378	1,749	1,372	1,121	2,123	1,582	1,252	1,030	1,263	1,018	848	962	790	668	678	569	490	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