



**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-I3-30-80-FWD.5-MC-W

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

##### **Test Number**

IES-P00317

##### **Test Date**

Tue Mar 24 12:31:29 2020

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

<b>Watts:</b>	45.28 W
<b>Lumens:</b>	3,560.23 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	77.13 lm/W

#### Spacing Criterion

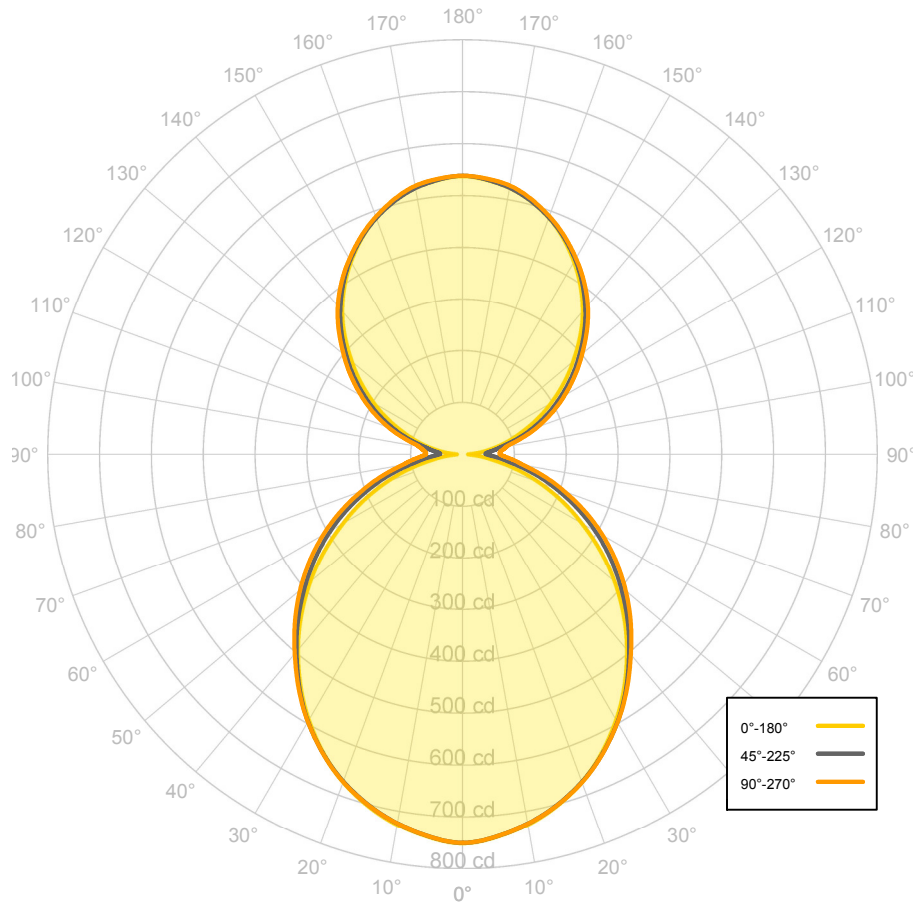
<b>Two luminaires, plane 0°</b>	1.17
<b>Two luminaires, plane 90°</b>	1.18
<b>Four luminaires</b>	1.3

#### Full Beam Angle

<b>0° - 180°</b>	284.37°
<b>90° - 270°</b>	280.05°

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°	126.60	3.56%	90° - 100°	62.77	1.76%
10° - 20°	195.43	5.49%	100° - 110°	111.73	3.14%
20° - 30°	289.82	8.14%	100° - 120°	286.08	8.04%
30° - 40°	339.65	9.54%	120° - 130°	224.44	6.30%
40° - 50°	343.05	9.64%	130° - 140°	251.89	7.07%
50° - 60°	304.68	8.56%	140° - 150°	248.18	6.97%
60° - 70°	232.48	6.53%	150° - 160°	209.80	5.89%
70° - 80°	142.63	4.01%	160° - 170°	140.80	3.95%
80° - 90°	71.21	2.00%	170° - 180°	90.74	2.55%
0° - 90°	2,045.53	57.46%	0° - 180°	3,560.23	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	751.64	751.64	751.64	751.64	751.64
10.00°	726.51	726.21	725.85	727.88	725.95
20.00°	673.30	673.92	674.24	675.76	675.13
30.00°	592.44	595.03	598.06	599.66	598.51
40.00°	493.40	497.28	499.81	505.55	505.17
50.00°	382.95	388.12	397.96	408.31	410.74
60.00°	265.61	276.18	293.21	304.96	310.16
70.00°	155.87	168.57	186.55	200.04	205.85
80.00°	56.35	70.20	91.13	108.55	115.04
90.00°	10.69	22.18	43.90	63.03	70.98
100.00°	54.22	63.80	74.50	83.68	87.76
110.00°	118.46	129.31	142.98	152.17	155.61
120.00°	197.23	206.30	217.23	225.12	227.91
130.00°	278.62	283.13	293.43	300.04	301.19
140.00°	360.69	361.73	368.04	374.20	375.66
150.00°	429.97	428.47	433.86	437.35	436.77
160.00°	486.79	486.74	485.91	486.82	488.55
170.00°	523.03	521.94	521.77	519.49	526.03
180.00°	537.25	537.25	537.25	537.25	537.25

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

	0.00°	45.00°	90.00°
0.00°	9,709	9,709	9,709
45.00°	7,232	3,247	2,742
55.00°	6,336	2,448	2,066
65.00°	5,241	1,716	1,461
75.00°	3,786	1,035	925
85.00°	2,237	543	564



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

	<b>pf<sub>c</sub></b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
	<b>pc<sub>c</sub></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>	3,878	3,878	3,878	3,878	3,611	3,611	3,611	3,611	3,114	3,114	3,114	2,660	2,660	2,660	2,242	2,242	2,242	2,046
	<b>1</b>	3,528	3,367	3,222	3,091	3,279	3,139	3,013	2,899	2,714	2,620	2,534	2,322	2,254	2,191	1,962	1,914	1,869	1,697
	<b>2</b>	3,213	2,941	2,716	2,527	2,981	2,745	2,548	2,381	2,378	2,228	2,099	2,040	1,928	1,830	1,726	1,645	1,573	1,421
	<b>3</b>	2,933	2,588	2,321	2,109	2,720	2,419	2,183	1,993	2,101	1,919	1,769	1,807	1,668	1,552	1,533	1,431	1,343	1,207
	<b>4</b>	2,688	2,296	2,009	1,790	2,492	2,149	1,894	1,696	1,872	1,672	1,513	1,615	1,460	1,335	1,375	1,259	1,162	1,041
	<b>5</b>	2,472	2,052	1,758	1,541	2,293	1,923	1,661	1,464	1,681	1,472	1,312	1,455	1,292	1,164	1,244	1,119	1,019	910
	<b>6</b>	2,282	1,846	1,553	1,344	2,118	1,733	1,470	1,279	1,520	1,309	1,151	1,321	1,154	1,026	1,134	1,004	903	805
	<b>7</b>	2,114	1,672	1,385	1,184	1,965	1,572	1,313	1,129	1,384	1,174	1,020	1,207	1,039	914	1,041	909	809	719
	<b>8</b>	1,966	1,523	1,245	1,053	1,830	1,435	1,182	1,006	1,267	1,060	913	1,109	943	821	961	829	730	649
	<b>9</b>	1,835	1,396	1,127	945	1,710	1,317	1,072	904	1,167	965	823	1,025	861	744	892	761	665	590
	<b>10</b>	1,719	1,286	1,027	855	1,604	1,215	979	819	1,080	884	748	952	792	678	832	703	609	541

**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