



**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-PSWD-4-D3-30-80-FWD.5-W  
KAYLA 1/2" Drop - 4' Downlight - White Housing - Frosted White Lens

#### **Test Number**

IES-P00320

#### **Test Date**

Tue Mar 24 16:02:36 2020

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

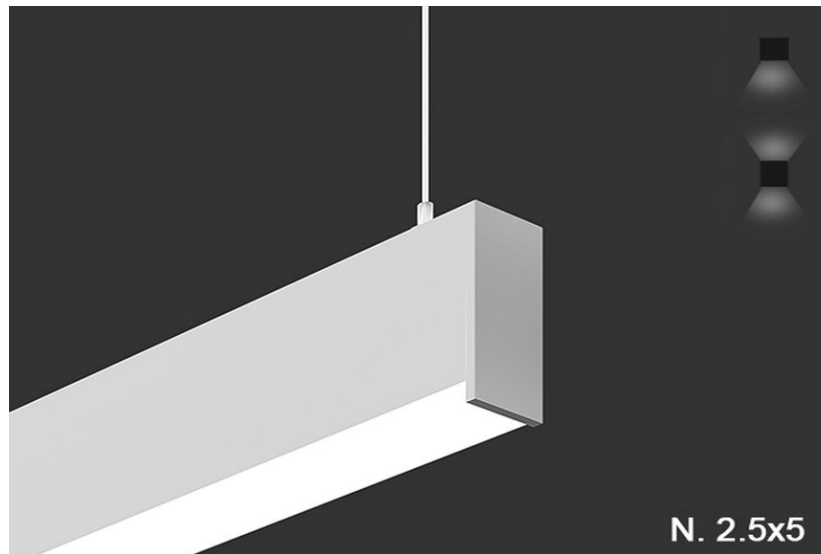


Image may differ slightly from actual unit.

**Summary of Results**

**Output:**

<b>Watts:</b>	22.05 W
<b>Lumens:</b>	1,534.44 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	68.36 lm/W

**Spacing Criterion**

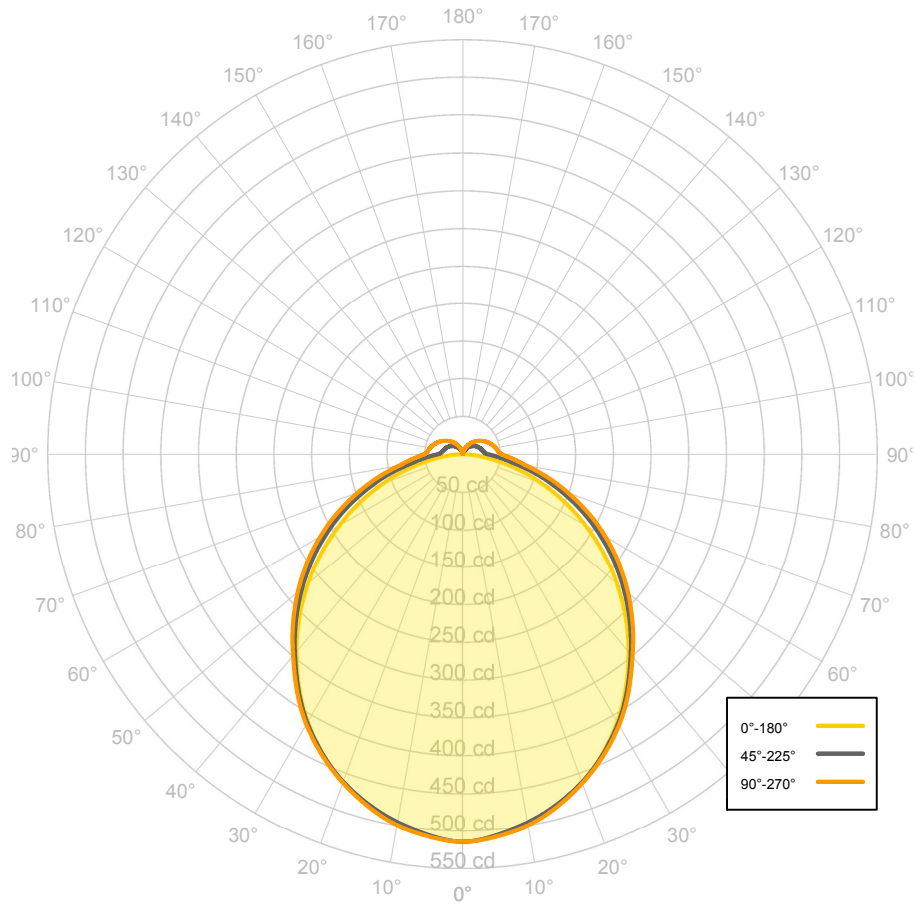
<b>Two luminaires, plane 0°</b>	1.18
<b>Two luminaires, plane 90°</b>	1.2
<b>Four luminaires</b>	1.31

**Full Beam Angle**

<b>0° - 180°</b>	102.44°
<b>90° - 270°</b>	108.4°

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°	86.79	5.66%	90° - 100°	29.36	1.91%
10° - 20°	134.25	8.75%	100° - 110°	24.62	1.60%
20° - 30°	199.86	13.02%	100° - 120°	44.66	2.91%
30° - 40°	235.09	15.32%	120° - 130°	14.91	0.97%
40° - 50°	238.80	15.56%	130° - 140°	9.87	0.64%
50° - 60°	213.90	13.94%	140° - 150°	5.51	0.36%
60° - 70°	164.82	10.74%	150° - 160°	2.32	0.15%
70° - 80°	102.64	6.69%	160° - 170°	0.58	0.04%
80° - 90°	51.05	3.33%	170° - 180°	0.04	0.00%
0° - 90°	1,427.19	93.01%	0° - 180°	1,534.44	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	515.17	515.17	515.17	515.17	515.17
10.00°	498.14	496.43	497.46	498.99	501.25
20.00°	463.69	463.36	464.00	463.59	465.28
30.00°	410.29	411.33	412.99	413.21	415.63
40.00°	342.47	344.67	346.89	349.53	350.63
50.00°	267.21	271.49	279.03	285.30	286.34
60.00°	188.18	195.46	206.81	214.70	217.84
70.00°	110.83	120.57	133.45	142.70	146.61
80.00°	42.28	52.03	66.58	78.79	82.80
90.00°	4.37	14.54	31.03	44.20	49.90
100.00°	1.15	10.76	26.38	39.21	44.29
110.00°	0.81	9.38	23.44	34.75	39.18
120.00°	0.47	7.64	19.91	29.56	33.25
130.00°	0.17	5.47	15.77	23.86	26.68
140.00°	0.02	3.56	11.35	17.51	19.93
150.00°	0.01	1.60	6.80	11.18	12.79
160.00°	0.00	0.33	2.81	5.33	6.23
170.00°	0.00	0.01	0.21	0.85	1.16
180.00°	0.00	0.00	0.00	0.00	0.00

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

	0.00°	45.00°	90.00°
0.00°	6,654	6,654	6,654
45.00°	5,511	4,976	4,848
55.00°	5,052	4,512	4,416
65.00°	4,470	3,942	3,898
75.00°	3,678	3,209	3,278
85.00°	3,089	2,678	2,992



**Coefficients of Utilization – Zonal Cavity Method**

Values are lumens delivered to the workplane.

<b>RCR</b>	<b>pf<sub>c</sub></b>	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>0</b>	1,801	1,801	1,801	1,801	1,747	1,747	1,747	1,747	1,645	1,645	1,645	1,553	1,553	1,553	1,467	1,467	1,467	1,427
	<b>1</b>	1,638	1,562	1,495	1,434	1,585	1,517	1,456	1,400	1,432	1,382	1,336	1,354	1,314	1,277	1,282	1,250	1,220	1,181
	<b>2</b>	1,491	1,364	1,259	1,171	1,440	1,326	1,230	1,149	1,254	1,174	1,106	1,188	1,122	1,065	1,127	1,073	1,026	987
	<b>3</b>	1,362	1,202	1,078	979	1,315	1,170	1,055	963	1,109	1,012	933	1,052	971	903	1,000	932	875	837
	<b>4</b>	1,251	1,069	937	835	1,207	1,042	919	823	990	884	801	942	852	779	897	820	757	721
	<b>5</b>	1,153	960	824	724	1,114	936	810	715	892	782	698	850	755	681	812	730	664	629
	<b>6</b>	1,068	868	734	637	1,032	848	722	630	810	699	616	774	677	603	741	656	589	556
	<b>7</b>	993	791	659	567	961	773	649	561	740	630	550	709	612	539	680	594	528	497
	<b>8</b>	928	725	597	510	898	710	589	505	681	573	496	654	557	487	629	542	478	448
<b>9</b>	869	669	546	462	842	655	539	459	630	525	451	606	511	443	584	498	436	407	
<b>10</b>	817	620	502	423	793	608	495	419	586	484	413	565	472	406	545	461	400	373	

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	14 fc	15 ft	17 ft
8 ft	8 fc	20 ft	22 ft
10 ft	5 fc	25 ft	28 ft
12 ft	4 fc	30 ft	33 ft
15 ft	2 fc	37 ft	42 ft