



**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**

BLD-4-PD-4-D5-30-80-FW-W

Blade 4" - White Housing - Suspended - Semi-Direct - 1/2" Drop Frosted White Lens

#### **Test Number**

IES-P00246

#### **Test Date**

Tue Oct 08 10:52:55 2019

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Picasso Lighting Industries, LLC.

BLD-4-PD-4-D5-30-80-FW-W  
Blade 4" - White Housing - Suspended - Semi-Direct - 1/2" Drop Frosted White Lens  
LED (3000K 80+ CRI)

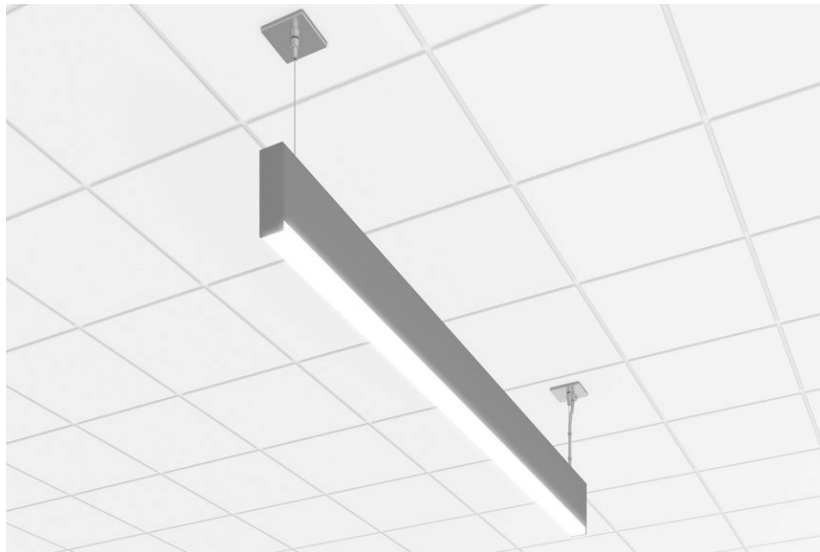


Image may differ slightly from actual unit.

### Summary of Results

#### Output:

<b>Watts:</b>	30.66 W
<b>Lumens:</b>	2,268.61 lm
<b>Efficiency:</b>	N/A
<b>Efficacy:</b>	72.96 lm/W

#### Spacing Criterion

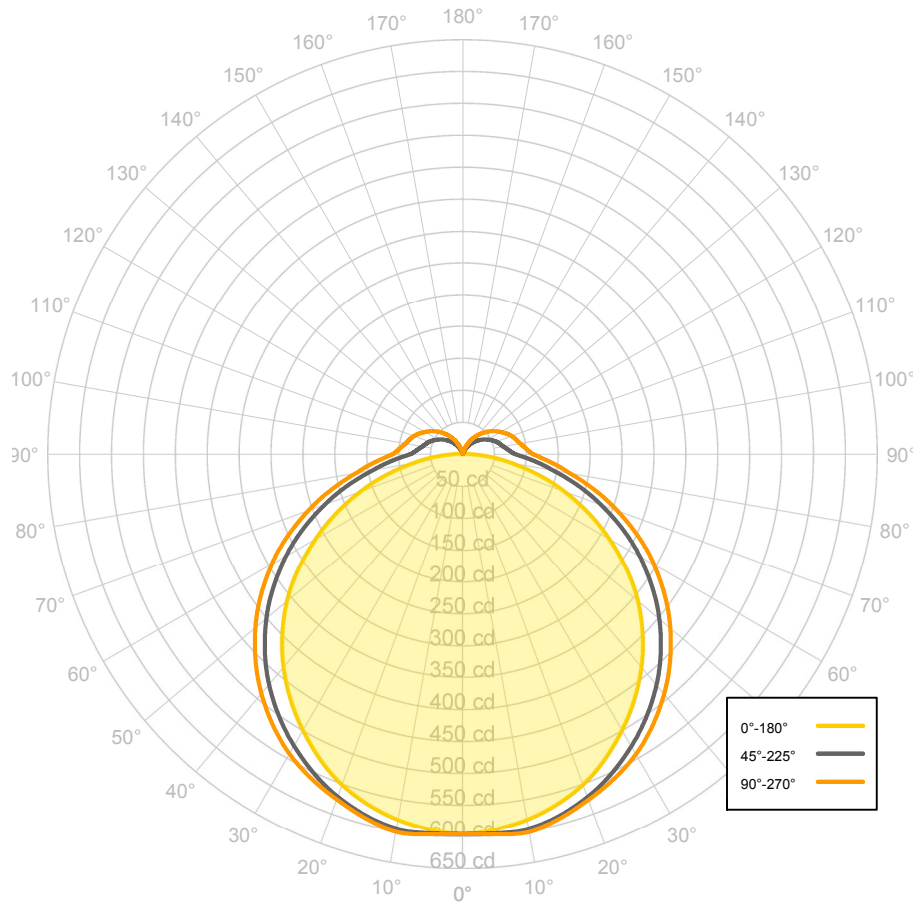
<b>Two luminaires, plane 0°</b>	1.24
<b>Two luminaires, plane 90°</b>	1.35
<b>Four luminaires</b>	1.44

#### Full Beam Angle

<b>0° - 180°</b>	112.26°
<b>90° - 270°</b>	129.87°

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°	102.23	4.51%	90° - 100°	70.46	3.11%
10° - 20°	163.48	7.21%	100° - 110°	56.17	2.48%
20° - 30°	251.34	11.08%	100° - 120°	100.27	4.42%
30° - 40°	309.53	13.64%	120° - 130°	31.41	1.38%
40° - 50°	331.83	14.63%	130° - 140°	19.67	0.87%
50° - 60°	315.35	13.90%	140° - 150°	10.06	0.44%
60° - 70°	262.63	11.58%	150° - 160°	3.47	0.15%
70° - 80°	185.43	8.17%	160° - 170°	0.52	0.02%
80° - 90°	110.94	4.89%	170° - 180°	0.00	0.00%
0° - 90°	2,032.75	89.60%	0° - 180°	2,268.61	100.00%



**Candela Distribution**

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	596.31	596.31	596.31	596.31	596.31
10.00°	582.31	587.00	598.12	603.60	602.28
20.00°	551.60	565.58	573.37	578.76	577.98
30.00°	499.88	517.51	529.77	541.05	544.23
40.00°	436.23	451.90	473.21	486.67	491.86
50.00°	358.86	375.97	402.67	419.38	425.17
60.00°	265.79	288.91	320.03	338.42	346.15
70.00°	169.59	194.86	228.70	249.92	256.30
80.00°	76.97	104.24	140.46	162.21	168.25
90.00°	15.24	44.09	80.61	102.06	108.93
100.00°	4.42	30.57	64.77	85.94	91.62
110.00°	1.89	23.85	55.63	75.08	81.57
120.00°	0.34	17.31	44.43	62.88	68.43
130.00°	0.01	10.37	33.19	48.81	54.71
140.00°	0.01	4.58	21.79	34.76	39.39
150.00°	0.00	0.81	10.26	20.02	23.91
160.00°	0.00	0.01	1.43	5.77	7.86
170.00°	0.00	0.00	0.00	0.00	0.01
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°	15,162	15,162	15,162
45.00°	14,148	12,248	11,830
55.00°	13,642	11,376	10,943
65.00°	12,811	10,235	9,827
75.00°	11,658	8,775	8,445
85.00°	12,020	7,559	7,351



**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%	
	<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>	2,645	2,645	2,645	2,645	2,556	2,556	2,556	2,556	2,390	2,390	2,390	2,238	2,238	2,238	2,098	2,098	2,098	2,033
	<b>1</b>	2,378	2,256	2,147	2,048	2,291	2,181	2,082	1,992	2,040	1,960	1,886	1,911	1,846	1,786	1,791	1,740	1,692	1,627
	<b>2</b>	2,151	1,950	1,784	1,645	2,067	1,886	1,735	1,607	1,767	1,641	1,533	1,656	1,553	1,463	1,554	1,470	1,396	1,333
	<b>3</b>	1,956	1,705	1,512	1,357	1,878	1,651	1,473	1,330	1,549	1,399	1,276	1,454	1,329	1,224	1,367	1,263	1,174	1,113
	<b>4</b>	1,788	1,508	1,302	1,145	1,717	1,461	1,271	1,124	1,374	1,212	1,083	1,293	1,155	1,043	1,217	1,101	1,004	946
	<b>5</b>	1,644	1,346	1,138	984	1,579	1,306	1,112	967	1,231	1,064	935	1,161	1,017	904	1,096	972	873	817
	<b>6</b>	1,518	1,212	1,006	858	1,459	1,178	985	845	1,113	944	819	1,052	905	793	995	868	768	716
	<b>7</b>	1,409	1,099	899	758	1,355	1,070	881	747	1,013	847	726	960	814	705	911	782	684	635
	<b>8</b>	1,313	1,004	810	677	1,264	978	795	668	929	766	650	883	738	632	839	711	615	569
	<b>9</b>	1,228	923	737	611	1,183	900	724	603	857	699	588	816	674	573	778	651	558	514
	<b>10</b>	1,152	853	674	555	1,112	833	663	549	795	641	535	759	620	523	724	600	510	468

**Cone of Light**

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	17 fc	18 ft	26 ft
8 ft	9 fc	24 ft	34 ft
10 ft	6 fc	30 ft	43 ft
12 ft	4 fc	36 ft	51 ft
15 ft	3 fc	45 ft	64 ft