



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-D5-30-80-FWD.5-W
KAYLA 1/2" Drop - 4' Downlight - White Housing - Frosted White Lens

Test Number

IES-P00321

Test Date

Tue Mar 24 16:37:59 2020

The results contained in this report pertain only to the tested sample.
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KAY-PSWD-4-D5-30-80-FWD.5-W
 KAYLA 1/2" Drop - 4' Downlight - White Housing - Frosted White Lens
 LED (3000K 80+ CRI)

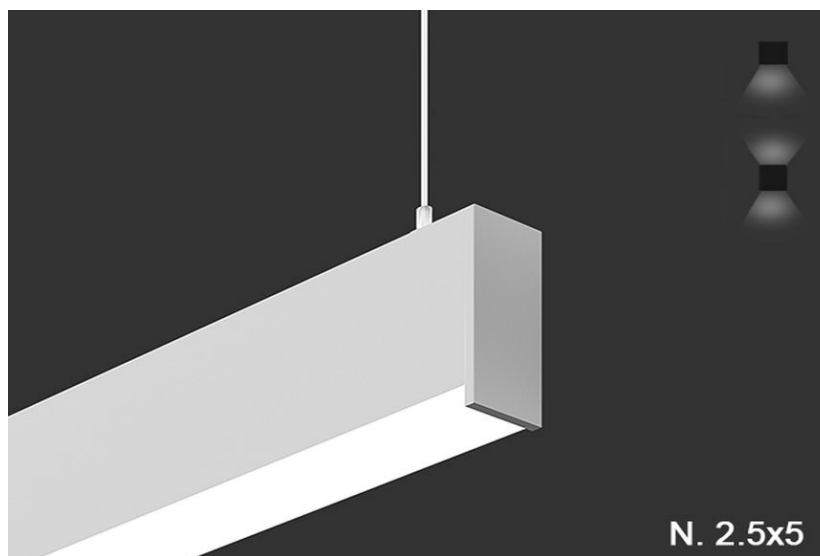


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	31.12 W
Lumens:	2,192.16 lm
Efficiency:	N/A
Efficacy:	69.21 lm/W

Spacing Criterion

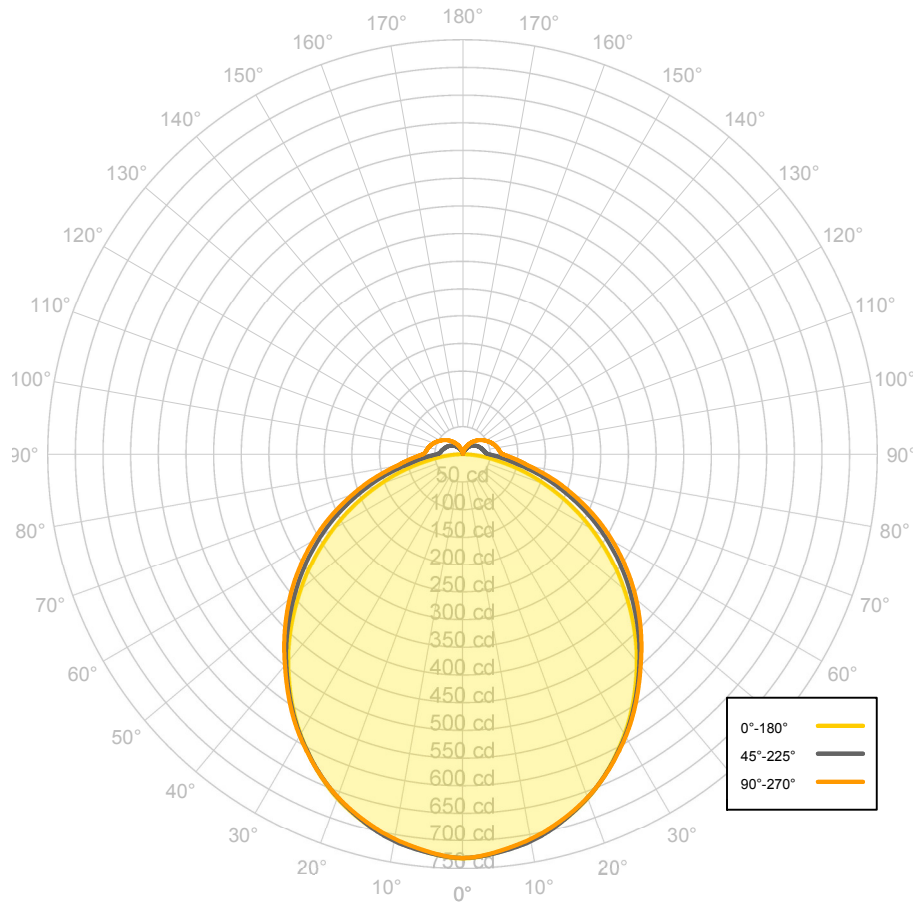
Two luminaires, plane 0°	1.19
Two luminaires, plane 90°	1.2
Four luminaires	1.31

Full Beam Angle

0° - 180°	102.78°
90° - 270°	108.9°

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°	123.66	5.64%	90° - 100°	41.89	1.91%
10° - 20°	191.80	8.75%	100° - 110°	35.15	1.60%
20° - 30°	285.35	13.02%	100° - 120°	63.75	2.91%
30° - 40°	335.88	15.32%	120° - 130°	21.34	0.97%
40° - 50°	341.33	15.57%	130° - 140°	14.17	0.65%
50° - 60°	305.59	13.94%	140° - 150°	7.90	0.36%
60° - 70°	235.59	10.75%	150° - 160°	3.31	0.15%
70° - 80°	146.78	6.70%	160° - 170°	0.81	0.04%
80° - 90°	72.96	3.33%	170° - 180°	0.05	0.00%
0° - 90°	2,038.93	93.01%	0° - 180°	2,192.16	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	732.13	732.13	732.13	732.13	732.13
10.00°	709.75	712.17	712.68	711.32	708.56
20.00°	662.27	663.50	662.45	663.47	661.91
30.00°	585.58	587.65	588.87	590.24	590.63
40.00°	490.27	491.57	497.40	500.30	501.20
50.00°	381.61	388.43	397.81	407.07	409.75
60.00°	269.66	279.00	295.78	306.56	311.56
70.00°	158.79	172.00	190.79	204.07	209.97
80.00°	60.78	74.49	95.48	112.05	118.91
90.00°	6.27	20.86	44.01	63.33	70.76
100.00°	1.71	15.30	37.73	55.87	63.39
110.00°	1.16	13.38	33.23	49.74	56.10
120.00°	0.66	10.85	28.46	42.30	47.42
130.00°	0.27	8.00	22.69	34.00	38.50
140.00°	0.04	4.85	16.24	25.34	28.66
150.00°	0.01	2.37	9.65	16.01	18.37
160.00°	0.01	0.46	3.91	7.41	8.87
170.00°	0.00	0.00	0.27	1.21	1.53
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°	9,457	9,457	9,457
45.00°	7,881	7,117	6,933
55.00°	7,226	6,441	6,317
65.00°	6,404	5,637	5,578
75.00°	5,274	4,593	4,699
85.00°	4,440	3,827	4,277



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	2,573	2,573	2,573	2,573	2,496	2,496	2,496	2,496	2,351	2,351	2,351	2,218	2,218	2,218	2,096	2,096	2,096	2,039
	1	2,340	2,232	2,135	2,048	2,264	2,167	2,080	2,000	2,046	1,974	1,909	1,934	1,877	1,824	1,831	1,786	1,743	1,687
	2	2,130	1,949	1,799	1,673	2,058	1,894	1,757	1,641	1,791	1,678	1,580	1,697	1,603	1,521	1,609	1,533	1,465	1,409
	3	1,946	1,717	1,540	1,398	1,879	1,671	1,507	1,376	1,584	1,446	1,332	1,503	1,387	1,290	1,428	1,332	1,249	1,195
	4	1,786	1,527	1,338	1,193	1,725	1,488	1,312	1,176	1,414	1,263	1,144	1,345	1,216	1,112	1,281	1,172	1,081	1,029
	5	1,647	1,371	1,177	1,034	1,591	1,337	1,157	1,022	1,274	1,117	997	1,215	1,079	972	1,159	1,042	948	898
	6	1,526	1,240	1,048	910	1,474	1,211	1,031	900	1,156	998	880	1,105	967	860	1,058	936	841	794
	7	1,419	1,129	941	810	1,372	1,104	927	802	1,057	900	786	1,013	874	770	972	848	754	709
	8	1,325	1,035	853	728	1,283	1,014	841	721	973	818	708	934	796	695	898	774	682	639
	9	1,242	955	779	660	1,203	936	769	655	900	749	644	866	730	633	834	712	622	581
10	1,168	885	716	604	1,133	869	708	599	837	691	590	807	674	580	779	658	571	532	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	20 fc	15 ft	17 ft
8 ft	11 fc	20 ft	22 ft
10 ft	7 fc	25 ft	28 ft
12 ft	5 fc	30 ft	34 ft
15 ft	3 fc	38 ft	42 ft