



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-I5-30-80-FWD.5-MC-W

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

Test Number

IES-P00318

Test Date

Tue Mar 24 12:58:55 2020

The results contained in this report pertain only to the tested sample.
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KAY-PWD-4-D5-I5-30-80-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:

Watts:	50.7 W
Lumens:	4,143.89 lm
Efficiency:	N/A
Efficacy:	80.16 lm/W

Spacing Criterion

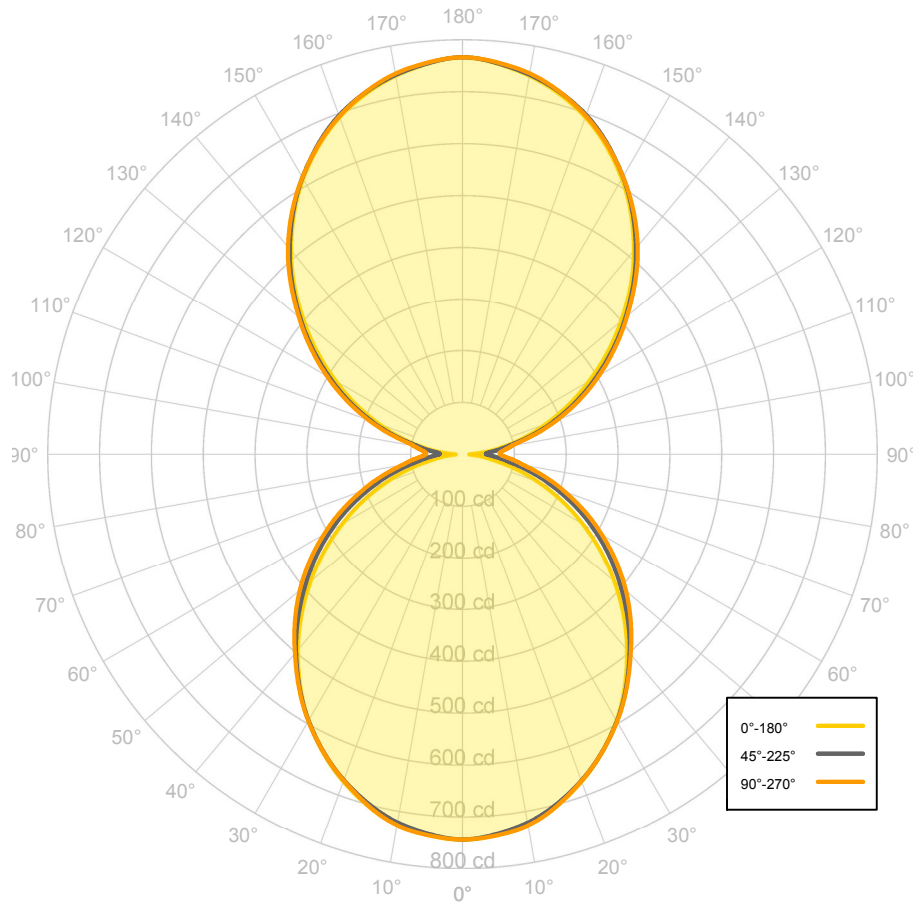
Two luminaires, plane 0°	1.18
Two luminaires, plane 90°	1.19
Four luminaires	1.31

Full Beam Angle

0° - 180°	257.28°
90° - 270°	254.3°

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°	125.91	3.04%	90° - 100°	72.08	1.74%
10° - 20°	194.96	4.70%	100° - 110°	144.98	3.50%
20° - 30°	289.25	6.98%	100° - 120°	381.90	9.22%
30° - 40°	339.23	8.19%	120° - 130°	311.50	7.52%
40° - 50°	342.99	8.28%	130° - 140°	354.13	8.55%
50° - 60°	304.65	7.35%	140° - 150°	351.95	8.49%
60° - 70°	232.19	5.60%	150° - 160°	299.00	7.22%
70° - 80°	142.37	3.44%	160° - 170°	200.81	4.85%
80° - 90°	71.55	1.73%	170° - 180°	129.40	3.12%
0° - 90°	2,043.12	49.30%	0° - 180°	4,143.89	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	745.25	745.25	745.25	745.25	745.25
10.00°	726.44	720.89	723.91	725.26	729.40
20.00°	672.05	674.08	671.31	674.97	671.98
30.00°	594.03	595.37	595.84	597.37	596.61
40.00°	493.59	496.10	501.23	504.16	504.61
50.00°	382.09	388.70	398.09	408.24	411.45
60.00°	267.04	275.36	292.57	305.67	308.83
70.00°	155.05	167.59	186.10	200.23	205.91
80.00°	55.89	70.60	90.82	108.17	115.37
90.00°	13.09	23.21	44.49	63.17	70.85
100.00°	76.19	84.79	91.02	95.55	99.32
110.00°	171.27	179.28	190.57	196.67	196.84
120.00°	281.76	289.12	298.57	302.84	304.93
130.00°	399.01	401.33	410.52	413.32	414.28
140.00°	514.20	515.79	520.21	523.51	525.66
150.00°	614.63	613.60	618.49	619.56	618.74
160.00°	692.56	691.34	696.84	695.19	694.85
170.00°	741.90	742.67	743.67	746.85	746.31
180.00°	766.18	766.18	766.18	766.18	766.18

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	9,626	9,626	9,626
45.00°	7,226	3,252	2,743
55.00°	6,342	2,447	2,064
65.00°	5,248	1,712	1,457
75.00°	3,764	1,032	926
85.00°	2,302	544	565



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	pf_c	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
	pc_c	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%
RCR	0	4,433	4,433	4,433	4,433	4,086	4,086	4,086	4,086	3,437	3,437	3,437	2,844	2,844	2,844	2,299	2,299	2,299	2,043
	1	4,033	3,848	3,682	3,532	3,709	3,551	3,408	3,279	2,994	2,891	2,796	2,483	2,410	2,342	2,012	1,962	1,916	1,694
	2	3,672	3,361	3,103	2,887	3,372	3,105	2,881	2,692	2,624	2,458	2,315	2,180	2,061	1,956	1,770	1,687	1,613	1,419
	3	3,351	2,956	2,650	2,407	3,075	2,734	2,467	2,251	2,317	2,115	1,949	1,930	1,782	1,658	1,572	1,466	1,376	1,205
	4	3,069	2,620	2,291	2,040	2,816	2,427	2,137	1,913	2,062	1,841	1,665	1,724	1,559	1,425	1,409	1,289	1,190	1,039
	5	2,820	2,338	2,001	1,753	2,588	2,169	1,871	1,648	1,849	1,618	1,441	1,552	1,377	1,240	1,274	1,146	1,043	908
	6	2,601	2,101	1,765	1,524	2,389	1,952	1,653	1,436	1,670	1,436	1,262	1,407	1,228	1,091	1,161	1,028	924	803
	7	2,407	1,899	1,570	1,339	2,214	1,768	1,473	1,264	1,518	1,285	1,116	1,284	1,104	970	1,065	929	826	718
	8	2,237	1,728	1,408	1,188	2,059	1,611	1,323	1,123	1,388	1,159	995	1,179	1,000	869	982	847	745	647
	9	2,085	1,580	1,271	1,062	1,922	1,476	1,197	1,006	1,276	1,052	895	1,088	912	786	911	777	678	589
	10	1,951	1,454	1,156	957	1,801	1,359	1,090	908	1,180	962	811	1,010	837	716	849	716	621	540

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	7 fc	0 ft	0 ft
12 ft	5 fc	0 ft	0 ft
15 ft	3 fc	0 ft	0 ft