



PICASSO LIGHTING INDUSTRIES, LLC
320 West Commerical Ave., Moonachie, NJ 07074
201.246.8188

Indoor Distribution Test Report

Picasso Lighting Industries, LLC

320 West Commerical Ave.
Moonachie, NJ 07074

Photopia Photometric Analysis & Optical Design

Catalog Number

MON-PR-4-D7-I7-30-80-FW-CL-W
MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses

Test Number

IES-P00361

Test Date

Fri Sep 24 15:24:10 2021

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.

MON-PR-4-D7-I7-30-80-FW-CL-W
 MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses
 LED (3000K 80+ CRI)

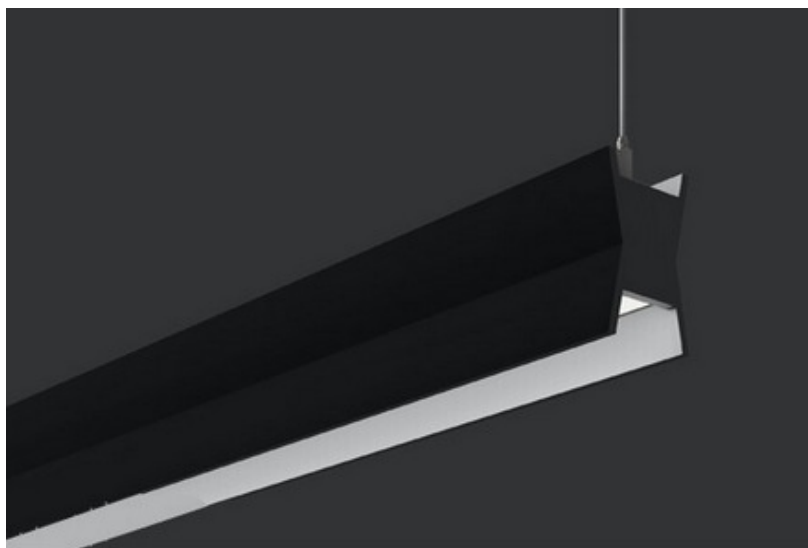


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	55.1 W
Lumens:	6,122.04 lm
Efficiency:	N/A
Efficacy:	109.03 lm/W

Spacing Criterion

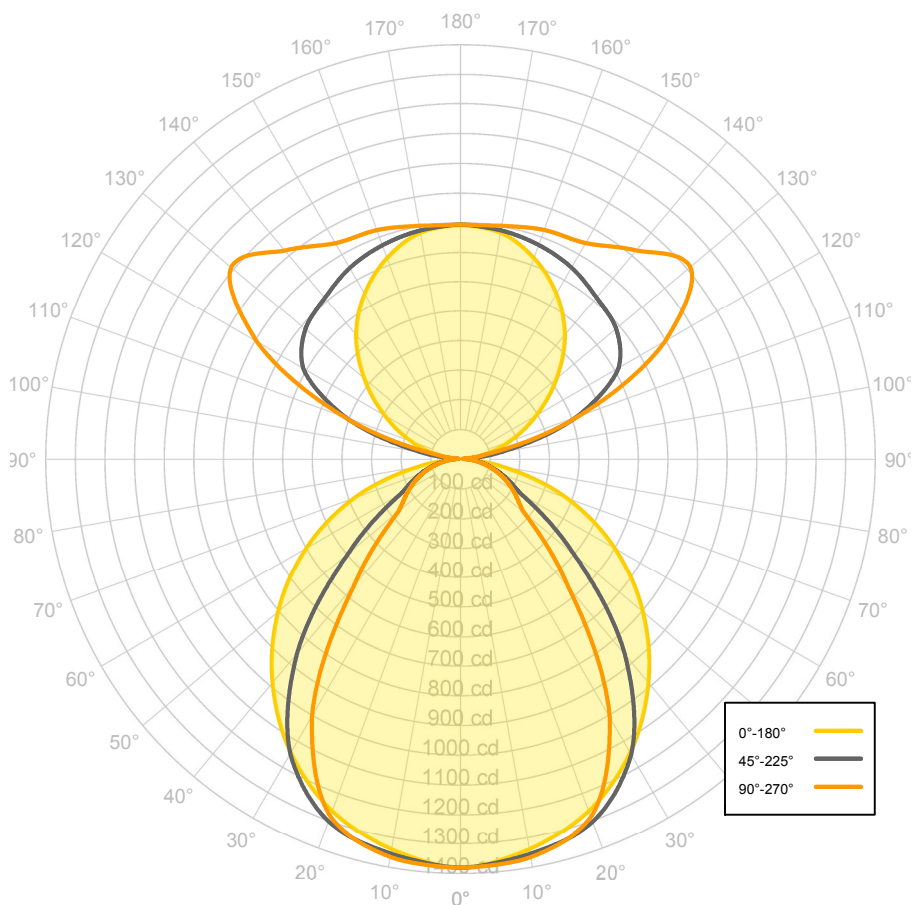
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.11
Four luminaires	1.24

Full Beam Angle

0° - 180°	311.36°
90° - 270°	234.17°

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°	234.56	3.83%	90° - 100°	66.91	1.09%
10° - 20°	370.36	6.05%	100° - 110°	243.48	3.98%
20° - 30°	546.83	8.93%	100° - 120°	701.83	11.46%
30° - 40°	594.93	9.72%	120° - 130°	569.49	9.30%
40° - 50°	512.24	8.37%	130° - 140°	547.66	8.95%
50° - 60°	379.44	6.20%	140° - 150°	456.28	7.45%
60° - 70°	253.87	4.15%	150° - 160°	347.03	5.67%
70° - 80°	138.49	2.26%	160° - 170°	218.79	3.57%
80° - 90°	48.08	0.79%	170° - 180°	135.25	2.21%
0° - 90°	3,078.79	50.29%	0° - 180°	6,122.04	100.00%



PICASSO LIGHTING INDUSTRIES, LLC
 320 West Commerical Ave., Moonachie, NJ 07074
 201.246.8188

Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,382.17	1,382.17	1,382.17	1,382.17	1,382.17
10.00°	1,338.99	1,343.44	1,356.06	1,365.79	1,367.27
20.00°	1,264.84	1,279.19	1,305.87	1,297.00	1,288.42
30.00°	1,145.01	1,173.72	1,153.12	1,057.11	1,006.49
40.00°	986.68	1,011.43	862.53	641.58	565.18
50.00°	803.25	782.33	493.51	308.26	273.37
60.00°	601.27	496.47	229.72	197.01	198.32
70.00°	380.94	224.35	141.17	132.91	130.42
80.00°	144.10	75.61	66.58	62.78	61.19
90.00°	15.21	16.13	11.69	9.06	7.48
100.00°	70.37	115.41	146.44	107.26	86.07
110.00°	175.68	251.59	418.81	451.64	427.80
120.00°	294.56	377.32	616.30	780.52	799.31
130.00°	423.04	488.84	685.19	914.87	1,011.46
140.00°	547.84	586.05	712.45	846.64	920.17
150.00°	646.82	663.55	747.04	809.15	842.36
160.00°	724.78	733.58	769.28	800.83	823.35
170.00°	778.35	774.79	784.21	793.10	800.07
180.00°	791.73	791.73	791.73	791.73	791.73

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	22,539	22,539	22,539
45.00°	19,059	6,269	3,191
55.00°	17,852	3,280	1,719
65.00°	16,089	1,702	1,185
75.00°	12,632	995	704
85.00°	7,652	405	265



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	6,564	6,564	6,564	6,564	6,057	6,057	6,057	6,057	5,112	5,112	5,112	4,247	4,247	4,247	3,452	3,452	3,452	3,079
	1	6,025	5,774	5,548	5,345	5,555	5,342	5,149	4,975	4,533	4,395	4,269	3,790	3,695	3,606	3,105	3,042	2,983	2,663
	2	5,521	5,092	4,738	4,440	5,087	4,721	4,414	4,154	4,023	3,798	3,604	3,379	3,219	3,079	2,784	2,675	2,578	2,299
	3	5,066	4,516	4,091	3,752	4,668	4,195	3,824	3,525	3,589	3,312	3,084	3,029	2,828	2,658	2,509	2,368	2,247	2,002
	4	4,660	4,030	3,569	3,217	4,295	3,751	3,346	3,033	3,223	2,915	2,672	2,732	2,505	2,321	2,276	2,114	1,979	1,762
	5	4,298	3,619	3,144	2,793	3,964	3,374	2,954	2,640	2,911	2,588	2,340	2,480	2,237	2,046	2,077	1,901	1,759	1,566
	6	3,977	3,268	2,793	2,451	3,671	3,053	2,630	2,323	2,645	2,315	2,070	2,264	2,013	1,821	1,907	1,722	1,578	1,405
	7	3,691	2,969	2,500	2,172	3,411	2,778	2,360	2,063	2,416	2,087	1,847	2,077	1,824	1,635	1,759	1,570	1,426	1,270
	8	3,437	2,711	2,254	1,940	3,181	2,542	2,132	1,847	2,219	1,894	1,661	1,916	1,663	1,478	1,631	1,440	1,298	1,157
	9	3,212	2,489	2,046	1,747	2,976	2,338	1,939	1,666	2,048	1,729	1,505	1,776	1,526	1,346	1,519	1,329	1,189	1,061
10	3,010	2,296	1,869	1,584	2,793	2,160	1,774	1,513	1,899	1,588	1,373	1,653	1,407	1,233	1,421	1,232	1,096	979	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	38 fc	0 ft	0 ft
8 ft	22 fc	0 ft	0 ft
10 ft	14 fc	0 ft	0 ft
12 ft	10 fc	0 ft	0 ft
15 ft	6 fc	0 ft	0 ft