



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-I3-30-80-FW-CL-W
MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses

Test Number

IES-P00359

Test Date

Fri Sep 24 11:32:47 2021

The results contained in this report pertain only to the tested sample.
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MON-PR-4-D7-I3-30-80-FW-CL-W
MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses
LED (3000K 80+ CRI)

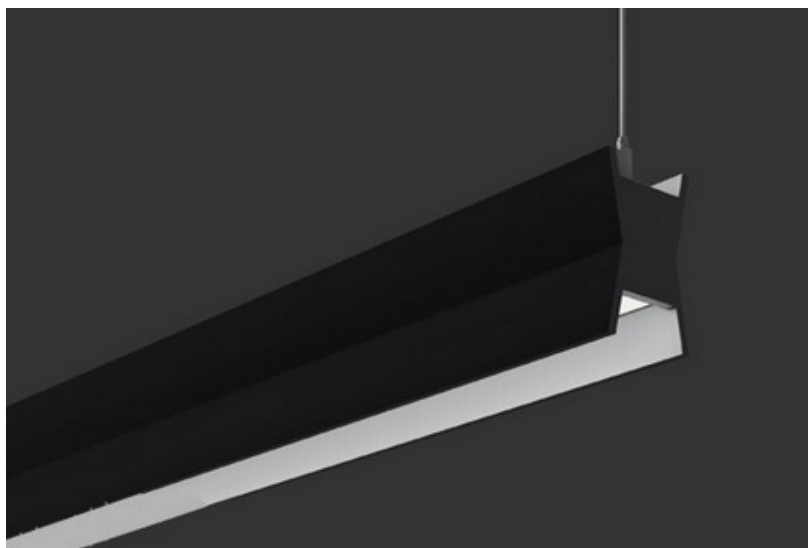


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	43.03 W
Lumens:	4,502.66 lm
Efficiency:	N/A
Efficacy:	102.5 lm/W

Spacing Criterion

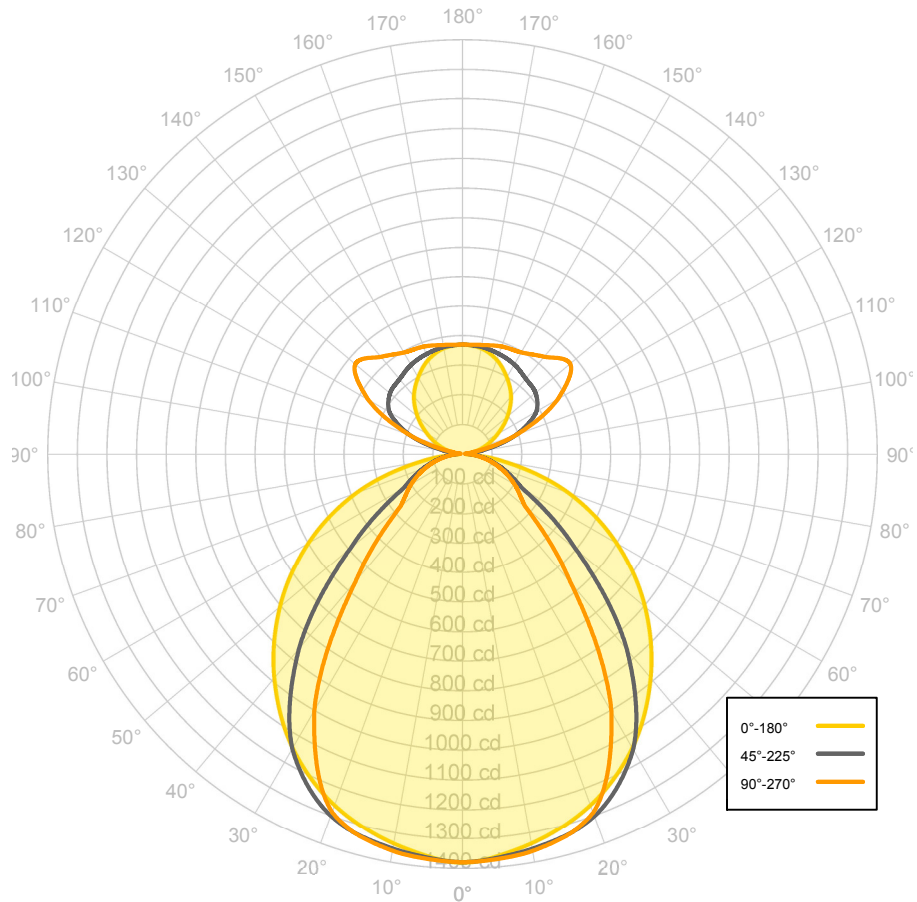
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.11
Four luminaires	1.24

Full Beam Angle

0° - 180°	111.17°
90° - 270°	74.3°

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°	234.34	5.20%	90° - 100°	34.41	0.76%
10° - 20°	370.30	8.22%	100° - 110°	114.29	2.54%
20° - 30°	546.83	12.14%	100° - 120°	328.45	7.29%
30° - 40°	594.95	13.21%	120° - 130°	266.23	5.91%
40° - 50°	512.43	11.38%	130° - 140°	255.72	5.68%
50° - 60°	379.52	8.43%	140° - 150°	212.76	4.73%
60° - 70°	253.73	5.64%	150° - 160°	162.08	3.60%
70° - 80°	138.40	3.07%	160° - 170°	102.12	2.27%
80° - 90°	47.30	1.05%	170° - 180°	63.09	1.40%
0° - 90°	3,077.80	68.36%	0° - 180°	4,502.66	100.00%



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Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	1,380.83	1,380.83	1,380.83	1,380.83	1,380.83
10.00°	1,336.81	1,341.86	1,355.85	1,365.60	1,363.12
20.00°	1,262.50	1,279.56	1,303.90	1,299.89	1,290.92
30.00°	1,146.32	1,174.69	1,152.80	1,056.01	1,004.30
40.00°	987.97	1,010.16	862.33	643.29	565.27
50.00°	804.08	783.21	492.94	308.57	273.47
60.00°	600.50	495.94	230.08	196.94	198.91
70.00°	381.05	224.06	140.96	133.11	129.30
80.00°	143.90	75.97	66.64	62.50	61.35
90.00°	12.91	14.02	10.79	7.89	6.56
100.00°	33.29	55.46	69.43	50.59	39.98
110.00°	81.70	117.98	196.72	210.47	200.13
120.00°	136.66	176.42	287.81	364.92	372.19
130.00°	197.78	228.99	320.81	428.01	473.64
140.00°	255.06	273.58	331.16	394.19	428.21
150.00°	299.20	309.95	348.35	379.03	395.69
160.00°	338.41	341.04	358.90	375.05	385.86
170.00°	362.53	361.16	366.69	369.20	373.63
180.00°	369.36	369.36	369.36	369.36	369.36

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	22,517	22,517	22,517
45.00°	19,082	6,265	3,191
55.00°	17,852	3,279	1,722
65.00°	16,078	1,702	1,183
75.00°	12,630	994	700
85.00°	7,532	401	262



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	5,021	5,021	5,021	5,021	4,739	4,739	4,739	4,739	4,211	4,211	4,211	3,729	3,729	3,729	3,286	3,286	3,286	3,078
	1	4,623	4,436	4,269	4,119	4,359	4,197	4,051	3,919	3,750	3,640	3,538	3,339	3,257	3,181	2,960	2,901	2,846	2,663
	2	4,245	3,925	3,661	3,438	4,001	3,721	3,487	3,289	3,338	3,157	3,000	2,984	2,846	2,725	2,657	2,554	2,462	2,299
	3	3,905	3,493	3,175	2,922	3,679	3,318	3,034	2,806	2,987	2,763	2,579	2,681	2,507	2,361	2,397	2,264	2,150	2,002
	4	3,600	3,130	2,785	2,522	3,394	2,978	2,668	2,428	2,691	2,443	2,246	2,425	2,228	2,069	2,177	2,023	1,896	1,762
	5	3,330	2,821	2,466	2,204	3,141	2,689	2,368	2,128	2,439	2,178	1,978	2,206	1,996	1,832	1,989	1,822	1,688	1,566
	6	3,089	2,559	2,204	1,948	2,917	2,444	2,120	1,885	2,224	1,958	1,760	2,020	1,803	1,637	1,828	1,653	1,517	1,405
	7	2,876	2,335	1,984	1,739	2,718	2,233	1,913	1,685	2,040	1,773	1,579	1,858	1,639	1,475	1,688	1,510	1,373	1,270
	8	2,685	2,142	1,800	1,565	2,541	2,052	1,738	1,519	1,880	1,617	1,429	1,719	1,500	1,340	1,567	1,387	1,252	1,157
	9	2,516	1,975	1,643	1,419	2,384	1,895	1,589	1,380	1,741	1,483	1,302	1,597	1,380	1,225	1,461	1,281	1,149	1,061
10	2,364	1,829	1,509	1,296	2,243	1,758	1,462	1,262	1,620	1,368	1,194	1,490	1,277	1,127	1,368	1,189	1,060	979	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	38 fc	18 ft	9 ft
8 ft	22 fc	23 ft	12 ft
10 ft	14 fc	29 ft	15 ft
12 ft	10 fc	35 ft	18 ft
15 ft	6 fc	44 ft	23 ft