



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-D3-I7-30-80-FW-CL-W

MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses

Test Number

IES-P00355

Test Date

Fri Sep 24 09:39:45 2021

The results contained in this report pertain only to the tested sample.
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MON-PR-4-D3-I7-30-80-FW-CL-W
MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses
LED (3000K 80+ CRI)

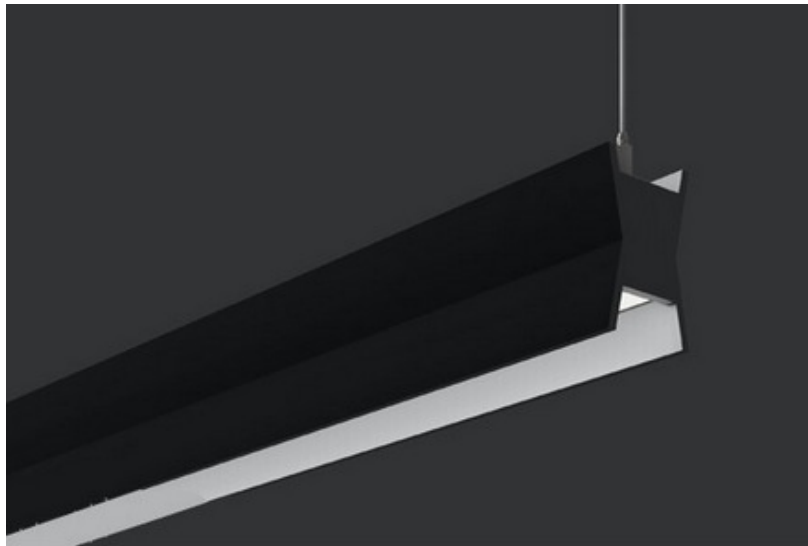


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	38.08 W
Lumens:	4,476.49 lm
Efficiency:	N/A
Efficacy:	115.58 lm/W

Spacing Criterion

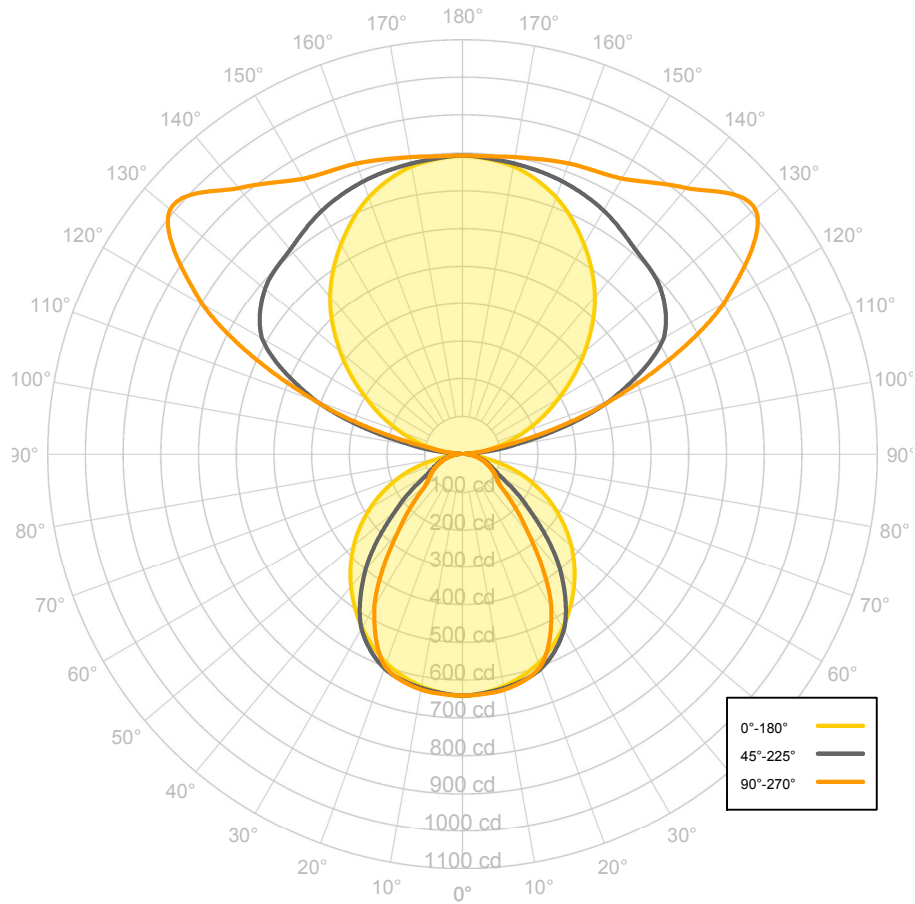
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.11
Four luminaires	1.24

Full Beam Angle

0° - 180°	273.57°
90° - 270°	224.28°

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°	109.25	2.44%	90° - 100°	63.62	1.42%
10° - 20°	172.82	3.86%	100° - 110°	242.39	5.41%
20° - 30°	255.11	5.70%	100° - 120°	700.20	15.64%
30° - 40°	277.52	6.20%	120° - 130°	569.85	12.73%
40° - 50°	239.09	5.34%	130° - 140°	547.86	12.24%
50° - 60°	177.17	3.96%	140° - 150°	456.26	10.19%
60° - 70°	118.51	2.65%	150° - 160°	347.35	7.76%
70° - 80°	64.63	1.44%	160° - 170°	218.83	4.89%
80° - 90°	23.22	0.52%	170° - 180°	135.21	3.02%
0° - 90°	1,437.31	32.11%	0° - 180°	4,476.49	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	642.38	642.38	642.38	642.38	642.38
10.00°	625.52	627.51	632.10	637.54	636.31
20.00°	590.11	597.73	607.43	605.98	602.11
30.00°	531.98	547.96	538.02	492.98	470.43
40.00°	459.68	471.54	402.51	299.89	263.48
50.00°	376.27	365.84	229.70	143.95	127.45
60.00°	281.01	231.59	107.35	91.70	92.60
70.00°	178.51	104.70	65.72	62.12	60.71
80.00°	66.63	35.59	31.07	29.20	28.37
90.00°	9.38	9.81	6.39	5.19	4.62
100.00°	69.79	113.60	144.40	106.94	86.39
110.00°	175.15	250.49	418.81	449.95	426.07
120.00°	292.19	375.99	616.80	780.62	802.37
130.00°	422.86	490.27	684.90	916.81	1,013.23
140.00°	546.28	585.91	711.03	845.77	922.01
150.00°	644.47	665.50	746.80	810.30	844.43
160.00°	726.41	732.60	770.59	803.79	821.01
170.00°	776.32	775.02	783.30	790.47	800.34
180.00°	792.45	792.45	792.45	792.45	792.45

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	10,475	10,475	10,475
45.00°	8,901	2,923	1,487
55.00°	8,354	1,529	802
65.00°	7,527	794	552
75.00°	5,898	464	327
85.00°	3,651	194	127



Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
pf_c	20%	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	4,606	4,606	4,606	4,606	4,145	4,145	4,145	4,145	3,285	3,285	3,285	2,499	2,499	2,499	1,777	1,777	1,777	1,437
1	4,214	4,032	3,869	3,721	3,788	3,637	3,501	3,377	2,898	2,806	2,722	2,219	2,161	2,108	1,593	1,560	1,529	1,243
2	3,852	3,543	3,288	3,073	3,460	3,202	2,987	2,804	2,562	2,414	2,285	1,972	1,875	1,791	1,426	1,369	1,318	1,073
3	3,526	3,130	2,824	2,580	3,166	2,834	2,574	2,364	2,277	2,094	1,943	1,761	1,640	1,538	1,283	1,209	1,146	934
4	3,234	2,781	2,450	2,197	2,905	2,523	2,239	2,020	2,035	1,833	1,672	1,582	1,445	1,334	1,161	1,076	1,006	822
5	2,974	2,486	2,144	1,892	2,673	2,259	1,965	1,744	1,830	1,617	1,454	1,430	1,284	1,169	1,057	965	892	731
6	2,743	2,234	1,892	1,647	2,467	2,034	1,737	1,522	1,654	1,437	1,276	1,300	1,149	1,034	968	872	797	655
7	2,538	2,019	1,682	1,446	2,285	1,841	1,548	1,340	1,504	1,287	1,129	1,188	1,036	922	892	793	718	593
8	2,356	1,834	1,506	1,281	2,124	1,676	1,389	1,189	1,374	1,160	1,007	1,091	939	828	825	725	651	540
9	2,194	1,675	1,358	1,143	1,981	1,534	1,254	1,063	1,263	1,052	905	1,007	857	749	767	667	595	495
10	2,051	1,538	1,231	1,027	1,853	1,410	1,140	957	1,165	960	819	934	786	682	716	617	546	457

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	18 fc	0 ft	0 ft
8 ft	10 fc	0 ft	0 ft
10 ft	6 fc	0 ft	0 ft
12 ft	4 fc	0 ft	0 ft
15 ft	3 fc	0 ft	0 ft