



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-I3-30-80-FW-CL-W

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

Test Number

IES-P00353

Test Date

Thu Sep 23 17:35:07 2021

The results contained in this report pertain only to the tested sample.
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MON-PR-4-D3-I3-30-80-FW-CL-W
 MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses
 LED (3000K 80+ CRI)

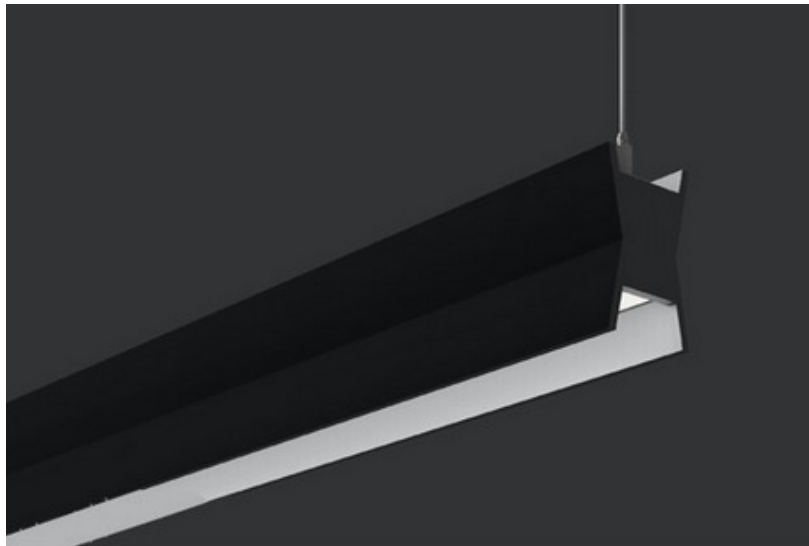


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	26.01 W
Lumens:	2,856.50 lm
Efficiency:	N/A
Efficacy:	107.78 lm/W

Spacing Criterion

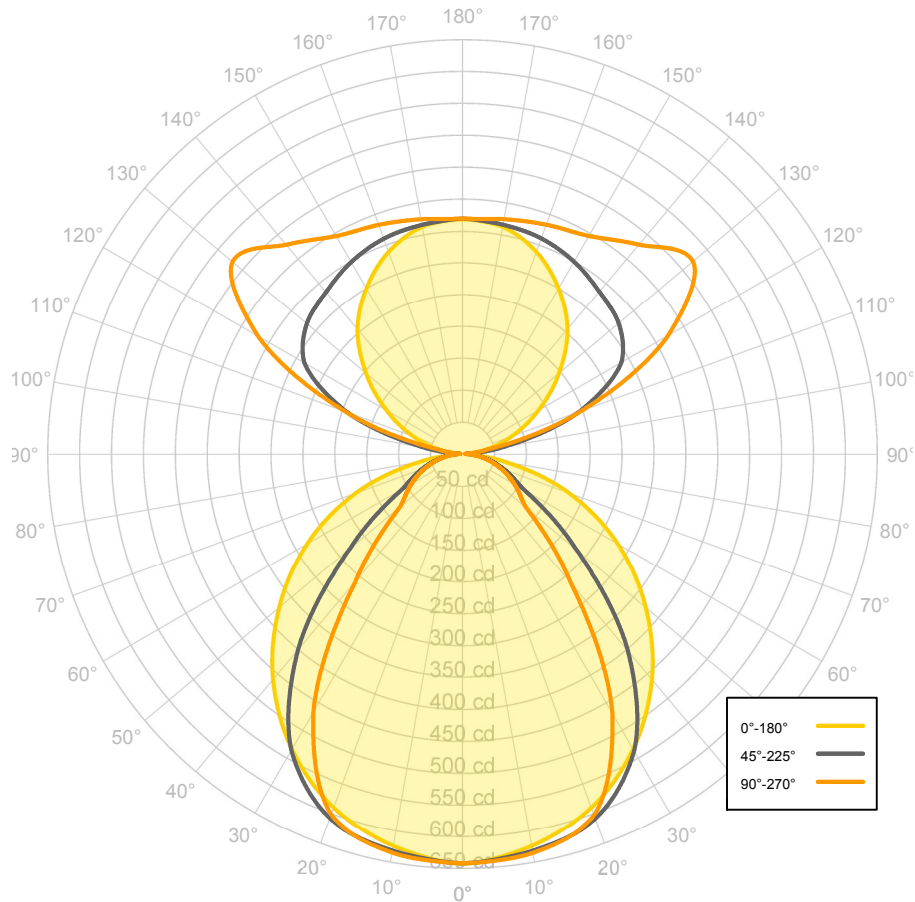
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.11
Four luminaires	1.24

Full Beam Angle

0° - 180°	310.89°
90° - 270°	234.05°

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°	109.26	3.82%	90° - 100°	31.17	1.09%
10° - 20°	172.89	6.05%	100° - 110°	113.59	3.98%
20° - 30°	255.38	8.94%	100° - 120°	327.42	11.46%
30° - 40°	277.77	9.72%	120° - 130°	265.70	9.30%
40° - 50°	239.01	8.37%	130° - 140°	255.42	8.94%
50° - 60°	176.99	6.20%	140° - 150°	212.83	7.45%
60° - 70°	118.49	4.15%	150° - 160°	162.02	5.67%
70° - 80°	64.66	2.26%	160° - 170°	102.04	3.57%
80° - 90°	22.43	0.79%	170° - 180°	63.03	2.21%
0° - 90°	1,436.87	50.30%	0° - 180°	2,856.50	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	642.68	642.68	642.68	642.68	642.68
10.00°	624.32	627.68	632.65	637.05	635.96
20.00°	590.05	596.35	609.44	606.51	603.44
30.00°	534.40	548.30	538.25	494.46	469.31
40.00°	461.66	470.91	402.87	299.99	263.38
50.00°	374.72	364.52	230.13	144.18	127.37
60.00°	280.89	231.23	107.34	91.97	92.52
70.00°	177.99	104.90	65.90	62.23	60.38
80.00°	67.17	35.42	31.09	29.12	28.53
90.00°	7.05	7.51	5.46	4.20	3.62
100.00°	32.80	53.79	68.12	50.02	40.00
110.00°	81.84	116.96	195.99	210.72	200.08
120.00°	136.96	176.05	287.63	363.86	372.74
130.00°	197.18	229.25	319.33	427.19	470.99
140.00°	255.78	272.49	332.64	394.06	428.74
150.00°	300.92	309.62	348.46	378.63	394.87
160.00°	338.41	340.74	359.86	374.89	382.71
170.00°	362.75	361.31	365.08	369.06	373.92
180.00°	369.00	369.00	369.00	369.00	369.00

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	10,480	10,480	10,480
45.00°	8,906	2,926	1,487
55.00°	8,333	1,531	802
65.00°	7,517	795	551
75.00°	5,898	465	327
85.00°	3,565	189	124



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%	
	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%
RCR	0	3,063	3,063	3,063	3,063	2,826	2,826	2,826	2,826	2,385	2,385	2,385	1,982	1,982	1,982	1,611	1,611	1,611	1,437
	1	2,811	2,694	2,589	2,494	2,592	2,493	2,403	2,321	2,115	2,051	1,992	1,769	1,724	1,683	1,449	1,420	1,392	1,243
	2	2,576	2,376	2,211	2,072	2,374	2,203	2,060	1,938	1,877	1,772	1,682	1,577	1,502	1,437	1,299	1,248	1,203	1,073
	3	2,364	2,107	1,909	1,751	2,178	1,957	1,784	1,645	1,675	1,546	1,439	1,414	1,319	1,240	1,171	1,105	1,049	934
	4	2,174	1,881	1,665	1,501	2,004	1,750	1,561	1,415	1,504	1,360	1,247	1,275	1,169	1,083	1,062	986	924	822
	5	2,006	1,688	1,467	1,303	1,850	1,574	1,378	1,232	1,358	1,208	1,092	1,157	1,044	955	969	887	821	731
	6	1,855	1,525	1,303	1,144	1,713	1,425	1,227	1,084	1,234	1,080	966	1,056	939	850	890	804	736	656
	7	1,722	1,385	1,167	1,013	1,592	1,296	1,101	962	1,128	974	862	969	851	763	821	733	665	593
	8	1,604	1,265	1,052	905	1,484	1,186	995	862	1,036	884	775	894	776	690	761	672	606	540
	9	1,499	1,161	955	815	1,389	1,091	905	777	956	807	702	829	712	628	709	620	555	495
	10	1,405	1,071	872	739	1,303	1,008	828	706	886	741	640	771	657	575	663	575	511	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