



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-D5-I7-30-80-FW-CL-W
MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses

Test Number

IES-P00358

Test Date

Fri Sep 24 13:55:34 2021

The results contained in this report pertain only to the tested sample.
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MON-PR-4-D5-I7-30-80-FW-CL-W
 MONARCH - 4' Down-Uplight - White Housing, Frosted White-Clear Lenses
 LED (3000K 80+ CRI)

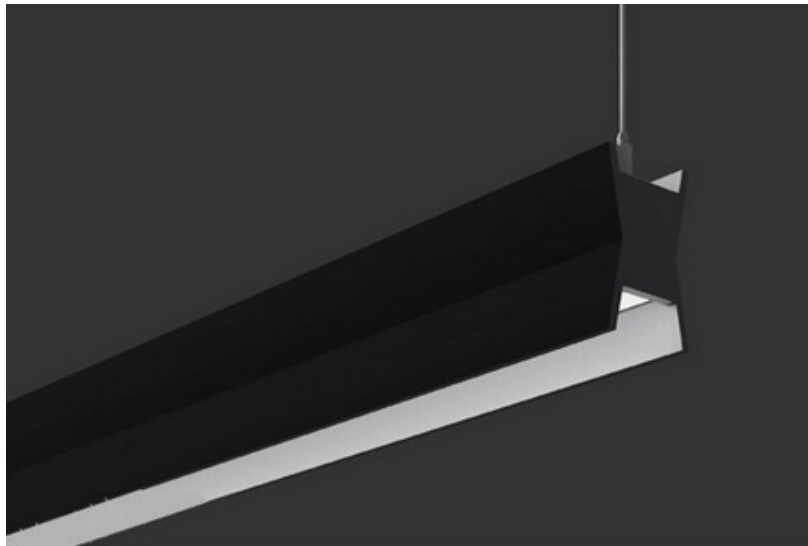


Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	44.26 W
Lumens:	5,094.00 lm
Efficiency:	N/A
Efficacy:	113.06 lm/W

Spacing Criterion

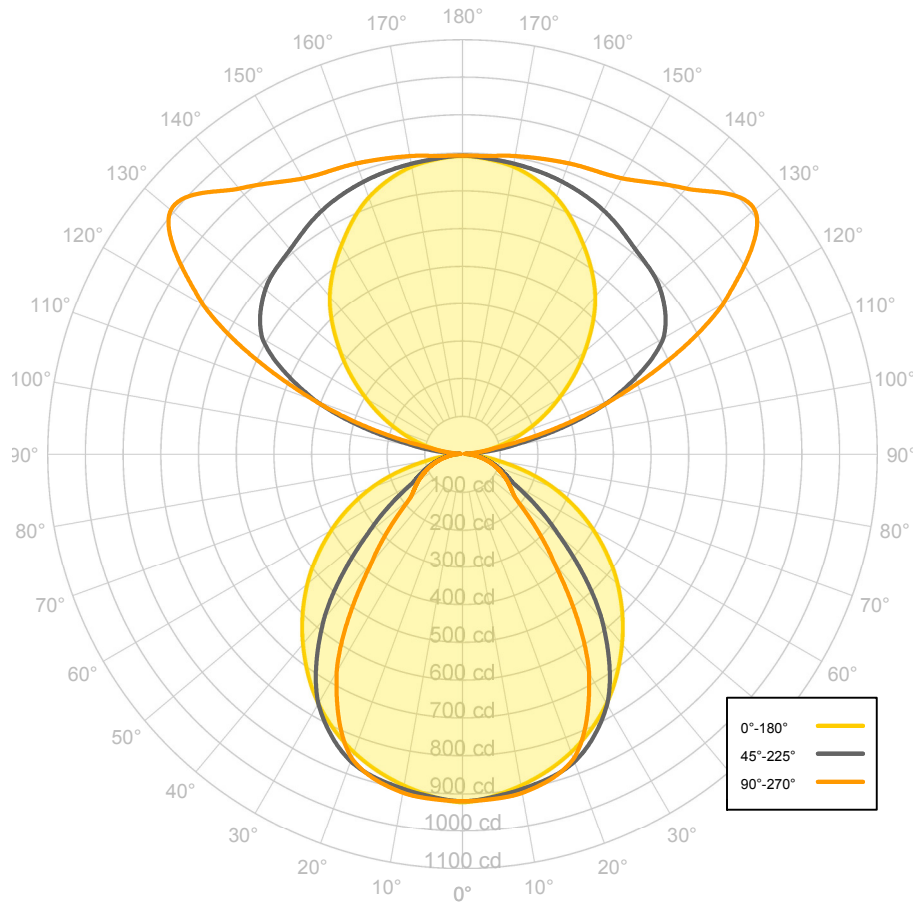
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.11
Four luminaires	1.24

Full Beam Angle

0° - 180°	273.23°
90° - 270°	224.18°

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°	156.64	3.07%	90° - 100°	64.90	1.27%
10° - 20°	247.16	4.85%	100° - 110°	242.93	4.77%
20° - 30°	364.73	7.16%	100° - 120°	700.83	13.76%
30° - 40°	396.59	7.79%	120° - 130°	569.27	11.18%
40° - 50°	341.32	6.70%	130° - 140°	547.55	10.75%
50° - 60°	252.87	4.96%	140° - 150°	456.47	8.96%
60° - 70°	169.28	3.32%	150° - 160°	347.37	6.82%
70° - 80°	92.39	1.81%	160° - 170°	218.80	4.30%
80° - 90°	32.58	0.64%	170° - 180°	135.26	2.66%
0° - 90°	2,053.54	40.31%	0° - 180°	5,094.00	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	923.09	923.09	923.09	923.09	923.09
10.00°	892.53	897.67	904.70	912.06	914.60
20.00°	841.59	852.33	869.80	867.76	861.75
30.00°	764.23	782.79	767.55	706.15	670.92
40.00°	658.08	673.08	574.43	428.22	376.93
50.00°	536.86	520.83	328.42	205.77	181.52
60.00°	401.32	330.17	153.24	131.80	131.90
70.00°	254.93	149.42	94.13	88.87	86.46
80.00°	95.94	50.63	44.54	41.76	40.61
90.00°	11.69	12.17	8.36	6.62	5.83
100.00°	69.63	114.70	145.18	107.16	86.15
110.00°	175.42	250.80	419.86	449.75	427.80
120.00°	293.95	376.43	615.73	780.06	799.99
130.00°	422.85	490.52	683.72	915.05	1,011.02
140.00°	547.78	585.96	711.36	846.45	920.32
150.00°	642.01	666.65	746.96	811.66	845.17
160.00°	726.35	732.00	769.62	803.00	821.27
170.00°	775.79	776.52	782.75	791.45	803.27
180.00°	792.10	792.10	792.10	792.10	792.10

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	15,053	15,053	15,053
45.00°	12,724	4,174	2,125
55.00°	11,924	2,185	1,142
65.00°	10,750	1,135	787
75.00°	8,441	664	467
85.00°	5,170	274	179



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	5,340	5,340	5,340	5,340	4,863	4,863	4,863	4,863	3,971	3,971	3,971	3,155	3,155	3,155	2,406	2,406	2,406	2,054
	1	4,894	4,686	4,499	4,331	4,451	4,277	4,120	3,977	3,512	3,403	3,303	2,809	2,737	2,670	2,161	2,117	2,075	1,776
	2	4,479	4,125	3,832	3,586	4,071	3,772	3,523	3,311	3,110	2,933	2,780	2,500	2,380	2,274	1,936	1,859	1,791	1,533
	3	4,104	3,651	3,300	3,020	3,730	3,345	3,043	2,800	2,770	2,551	2,372	2,237	2,086	1,958	1,743	1,644	1,560	1,335
	4	3,769	3,250	2,870	2,580	3,427	2,984	2,655	2,400	2,481	2,239	2,048	2,014	1,843	1,705	1,580	1,466	1,372	1,175
	5	3,471	2,911	2,520	2,231	3,157	2,678	2,336	2,081	2,236	1,982	1,787	1,824	1,642	1,499	1,440	1,317	1,218	1,045
	6	3,206	2,622	2,230	1,949	2,919	2,417	2,073	1,823	2,026	1,767	1,574	1,662	1,474	1,330	1,321	1,191	1,090	937
	7	2,971	2,375	1,989	1,719	2,708	2,193	1,853	1,611	1,847	1,588	1,399	1,522	1,332	1,190	1,218	1,085	984	847
	8	2,762	2,164	1,787	1,529	2,521	2,001	1,668	1,436	1,692	1,436	1,253	1,401	1,211	1,072	1,128	994	894	772
	9	2,576	1,981	1,616	1,370	2,354	1,836	1,512	1,290	1,558	1,307	1,131	1,296	1,108	973	1,050	916	818	708
10	2,411	1,823	1,471	1,237	2,206	1,692	1,378	1,166	1,441	1,196	1,027	1,204	1,020	889	981	848	753	653	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	26 fc	0 ft	0 ft
8 ft	14 fc	0 ft	0 ft
10 ft	9 fc	0 ft	0 ft
12 ft	6 fc	0 ft	0 ft
15 ft	4 fc	0 ft	0 ft