



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

MUS-xR-4-D5-I10-30-80-FW-BW-W
MUSE - 4' Up/Downlight - White Housing, Frosted White Lens (Downlight), Bat Wing Lens
(Uplight)

Test Number

IES-P00369

Test Date

Mon Oct 04 08:41:07 2021

The results contained in this report pertain only to the tested sample.
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MUS-xR-4-D5-I10-30-80-FW-BW-W
MUSE - 4' Up/Downlight - White Housing, Frosted White Lens (Downlight), Bat Wing Lens
(Uplight)
LED (3000K 80+ CRI)



Image may differ slightly from actual unit.

Summary of Results

Output:

Watts:	50.52 W
Lumens:	6,098.42 lm
Efficiency:	N/A
Efficacy:	118.84 lm/W

Spacing Criterion

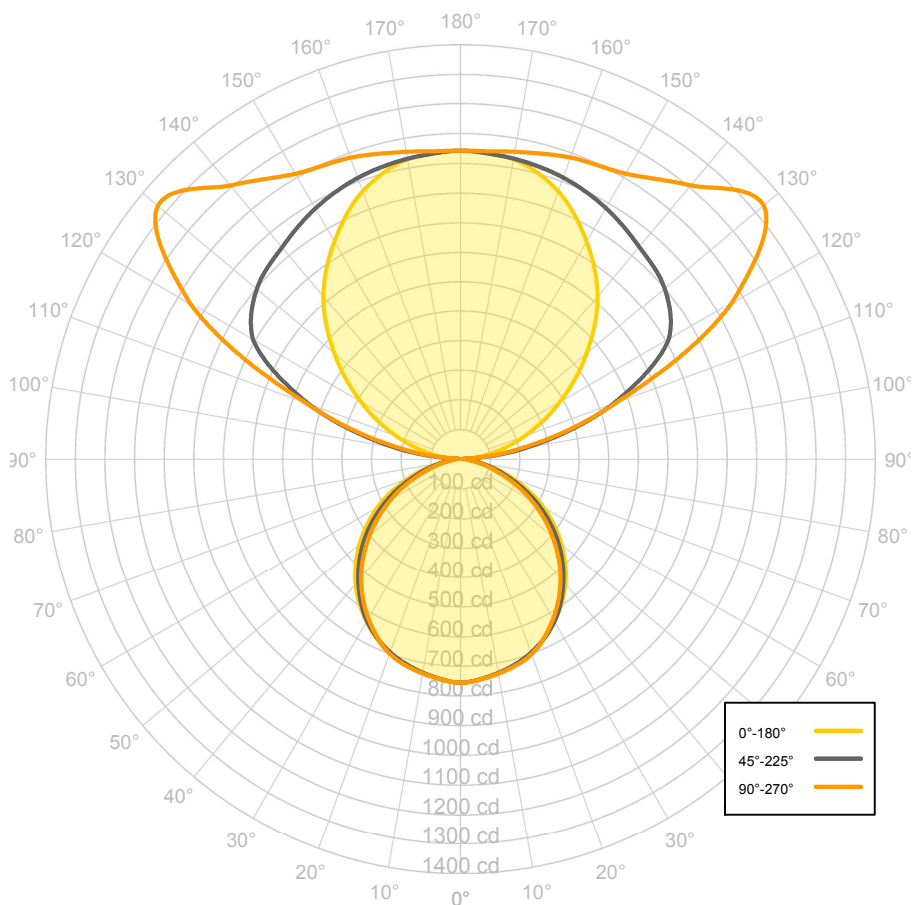
Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.21
Four luminaires	1.34

Full Beam Angle

0° - 180°	273.64°
90° - 270°	224.19°

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°	128.00	2.10%	90° - 100°	109.58	1.80%
10° - 20°	200.88	3.29%	100° - 110°	343.98	5.64%
20° - 30°	303.77	4.98%	100° - 120°	947.30	15.53%
30° - 40°	362.47	5.94%	120° - 130°	750.06	12.30%
40° - 50°	368.18	6.04%	130° - 140°	720.01	11.81%
50° - 60°	319.40	5.24%	140° - 150°	600.48	9.85%
60° - 70°	222.78	3.65%	150° - 160°	457.57	7.50%
70° - 80°	108.87	1.79%	160° - 170°	288.19	4.73%
80° - 90°	32.85	0.54%	170° - 180°	178.01	2.92%
0° - 90°	2,047.21	33.57%	0° - 180°	6,098.42	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	757.03	757.03	757.03	757.03	757.03
10.00°	735.37	738.45	735.19	737.98	737.36
20.00°	698.86	698.91	697.05	696.91	702.22
30.00°	634.64	636.82	633.92	626.66	624.43
40.00°	550.97	549.93	539.41	526.21	524.65
50.00°	444.91	444.08	425.41	410.57	402.59
60.00°	323.82	317.22	294.90	277.48	270.67
70.00°	188.23	177.69	157.04	141.18	135.82
80.00°	66.95	59.13	47.22	39.95	38.09
90.00°	10.81	15.90	13.24	6.69	5.78
100.00°	91.91	151.07	235.54	230.54	209.75
110.00°	230.63	328.11	552.33	591.60	563.28
120.00°	386.99	495.75	812.64	1,028.26	1,060.96
130.00°	555.16	645.54	898.90	1,202.30	1,335.16
140.00°	719.94	772.69	937.10	1,108.86	1,206.98
150.00°	850.75	878.92	979.58	1,069.58	1,113.37
160.00°	964.21	963.95	1,011.90	1,055.98	1,083.93
170.00°	1,029.96	1,021.01	1,030.52	1,040.19	1,054.09
180.00°	1,042.22	1,042.22	1,042.22	1,042.22	1,042.22

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	6,048	6,048	6,048
45.00°	5,198	3,088	2,619
55.00°	4,790	2,397	1,931
65.00°	4,113	1,617	1,222
75.00°	3,012	817	567
85.00°	1,835	284	162



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	6,295	6,295	6,295	6,295	5,678	5,678	5,678	5,678	4,525	4,525	4,525	3,471	3,471	3,471	2,502	2,502	2,502	2,047
	1	5,748	5,494	5,266	5,060	5,176	4,964	4,773	4,600	3,973	3,843	3,724	3,062	2,978	2,901	2,223	2,173	2,127	1,742
	2	5,240	4,807	4,449	4,149	4,712	4,350	4,047	3,790	3,491	3,279	3,097	2,699	2,558	2,436	1,966	1,880	1,804	1,473
	3	4,782	4,229	3,801	3,459	4,298	3,832	3,466	3,171	3,084	2,823	2,609	2,391	2,215	2,067	1,749	1,639	1,544	1,257
	4	4,375	3,743	3,279	2,926	3,932	3,396	2,997	2,689	2,741	2,453	2,225	2,134	1,935	1,775	1,568	1,441	1,337	1,086
	5	4,014	3,333	2,856	2,505	3,608	3,028	2,616	2,307	2,452	2,151	1,919	1,916	1,706	1,540	1,416	1,279	1,169	950
	6	3,695	2,985	2,509	2,167	3,324	2,717	2,302	2,001	2,208	1,901	1,672	1,733	1,516	1,350	1,288	1,145	1,033	840
	7	3,413	2,690	2,222	1,893	3,073	2,452	2,042	1,751	2,000	1,693	1,470	1,576	1,357	1,194	1,178	1,033	922	750
	8	3,164	2,438	1,982	1,669	2,851	2,226	1,825	1,546	1,822	1,519	1,304	1,442	1,224	1,065	1,085	938	829	676
	9	2,943	2,222	1,781	1,482	2,655	2,032	1,643	1,376	1,669	1,373	1,165	1,326	1,111	957	1,004	858	751	615
10	2,747	2,036	1,610	1,327	2,482	1,864	1,488	1,234	1,536	1,248	1,049	1,226	1,015	867	933	790	686	563	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	21 fc	0 ft	0 ft
8 ft	12 fc	0 ft	0 ft
10 ft	8 fc	0 ft	0 ft
12 ft	5 fc	0 ft	0 ft
15 ft	3 fc	0 ft	0 ft