



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-D3-I10-30-80-FW-BW-W

MUSE - 4' Up/Downlight - White Housing, Frosted White Lens (Downlight), Bat Wing Lens
(Uplight)

Test Number

IES-P00365

Test Date

Mon Oct 04 12:11:15 2021

The results contained in this report pertain only to the tested sample.
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MUS-xR-4-D3-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:	44.73 W
Lumens:	5,484.37 lm
Efficiency:	N/A
Efficacy:	120.76 lm/W

Spacing Criterion

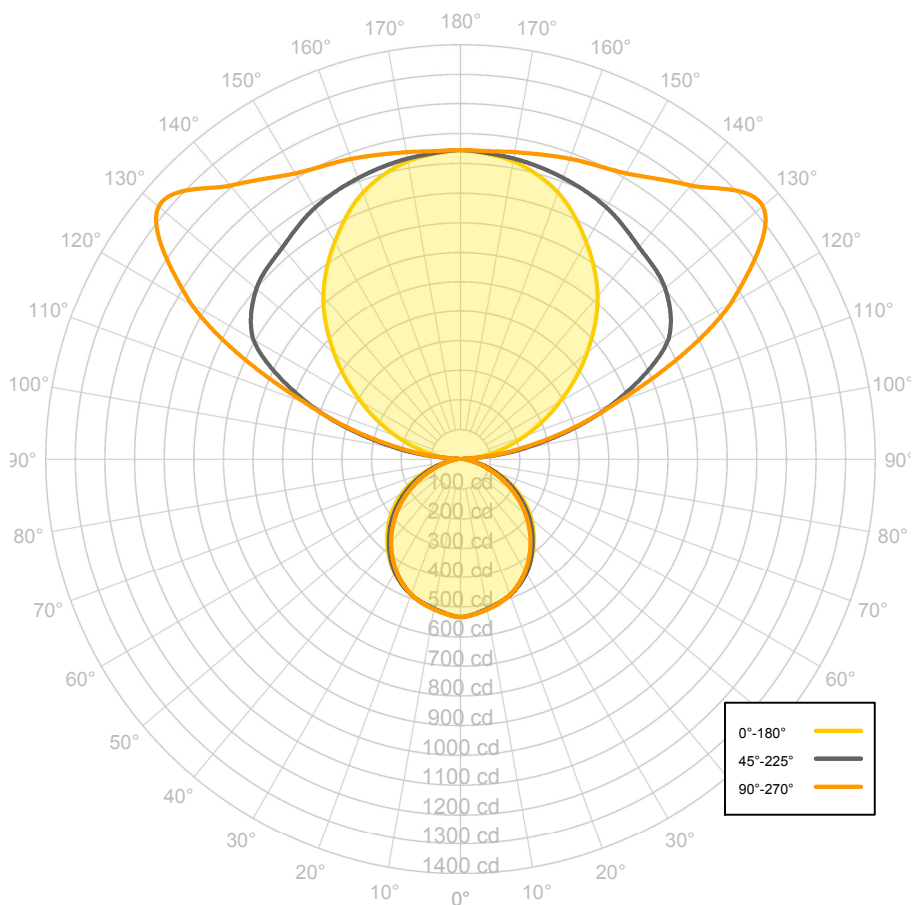
Two luminaires, plane 0°	1.23
Two luminaires, plane 90°	1.21
Four luminaires	1.33

Full Beam Angle

0° - 180°	360°
90° - 270°	360°

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°	89.88	1.64%	90° - 100°	108.89	1.99%
10° - 20°	140.43	2.56%	100° - 110°	344.33	6.28%
20° - 30°	212.64	3.88%	100° - 120°	947.90	17.28%
30° - 40°	253.79	4.63%	120° - 130°	750.13	13.68%
40° - 50°	257.76	4.70%	130° - 140°	720.26	13.13%
50° - 60°	223.64	4.08%	140° - 150°	600.19	10.94%
60° - 70°	156.16	2.85%	150° - 160°	456.79	8.33%
70° - 80°	76.29	1.39%	160° - 170°	287.59	5.24%
80° - 90°	24.05	0.44%	170° - 180°	177.98	3.25%
0° - 90°	1,434.64	26.16%	0° - 180°	5,484.37	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	534.89	534.89	534.89	534.89	534.89
10.00°	515.92	514.12	515.34	512.96	517.50
20.00°	487.81	487.66	489.22	488.56	488.76
30.00°	444.55	445.50	444.26	439.48	436.87
40.00°	382.89	385.41	377.92	369.32	366.26
50.00°	312.40	310.82	298.28	286.08	283.41
60.00°	227.57	222.00	206.89	193.87	188.83
70.00°	132.43	124.74	110.38	99.17	95.11
80.00°	45.87	41.27	33.02	27.75	26.67
90.00°	9.41	14.95	11.98	5.41	4.81
100.00°	92.35	150.51	235.60	230.37	209.91
110.00°	231.16	328.36	551.20	592.91	567.97
120.00°	386.03	495.43	811.68	1,030.88	1,056.94
130.00°	556.77	642.98	900.59	1,206.05	1,331.63
140.00°	720.17	771.34	936.00	1,111.91	1,206.68
150.00°	848.52	875.81	982.34	1,065.35	1,114.83
160.00°	960.37	962.40	1,010.82	1,053.27	1,079.50
170.00°	1,022.77	1,018.80	1,030.95	1,039.78	1,052.91
180.00°	1,043.74	1,043.74	1,043.74	1,043.74	1,043.74

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	4,274	4,274	4,274
45.00°	3,629	2,164	1,835
55.00°	3,365	1,681	1,355
65.00°	2,892	1,135	854
75.00°	2,104	574	397
85.00°	1,304	212	116



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	5,565	5,565	5,565	5,565	4,964	4,964	4,964	4,964	3,844	3,844	3,844	2,819	2,819	2,819	1,877	1,877	1,877	1,435
	1	5,076	4,849	4,646	4,463	4,521	4,334	4,165	4,013	3,369	3,257	3,155	2,482	2,413	2,350	1,665	1,628	1,593	1,220
	2	4,625	4,241	3,922	3,655	4,114	3,795	3,528	3,302	2,958	2,777	2,621	2,186	2,071	1,971	1,472	1,407	1,350	1,031
	3	4,220	3,728	3,347	3,044	3,750	3,340	3,019	2,759	2,611	2,388	2,205	1,935	1,791	1,670	1,309	1,226	1,154	880
	4	3,858	3,296	2,884	2,570	3,428	2,957	2,607	2,336	2,318	2,072	1,877	1,725	1,563	1,432	1,172	1,077	998	761
	5	3,537	2,931	2,508	2,195	3,144	2,634	2,271	2,000	2,071	1,813	1,615	1,547	1,375	1,239	1,058	955	872	665
	6	3,253	2,622	2,198	1,894	2,893	2,359	1,994	1,729	1,861	1,599	1,403	1,396	1,219	1,083	961	853	769	588
	7	3,001	2,359	1,942	1,650	2,671	2,126	1,765	1,509	1,683	1,421	1,230	1,268	1,089	955	878	769	685	526
	8	2,779	2,134	1,728	1,450	2,476	1,926	1,573	1,328	1,530	1,271	1,087	1,158	980	849	808	697	615	474
	9	2,582	1,941	1,549	1,284	2,303	1,755	1,412	1,178	1,398	1,145	968	1,063	887	761	746	637	556	430
10	2,408	1,776	1,397	1,145	2,150	1,607	1,276	1,052	1,285	1,039	868	981	808	687	693	585	507	394	

Cone of Light

Mtg Height	Light Level	0°-180° Beam Diameter	90°-270° Beam Diameter
6 ft	15 fc	0 ft	0 ft
8 ft	8 fc	0 ft	0 ft
10 ft	5 fc	0 ft	0 ft
12 ft	4 fc	0 ft	0 ft
15 ft	2 fc	0 ft	0 ft