



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-I3-30-80-FW-BW-W

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

Test Number

IES-P00362

Test Date

Mon Oct 04 10:59:14 2021

The results contained in this report pertain only to the tested sample.
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MUS-xR-4-D3-I3-30-80-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:	25.13 W
Lumens:	2,850.21 lm
Efficiency:	N/A
Efficacy:	111.55 lm/W

Spacing Criterion

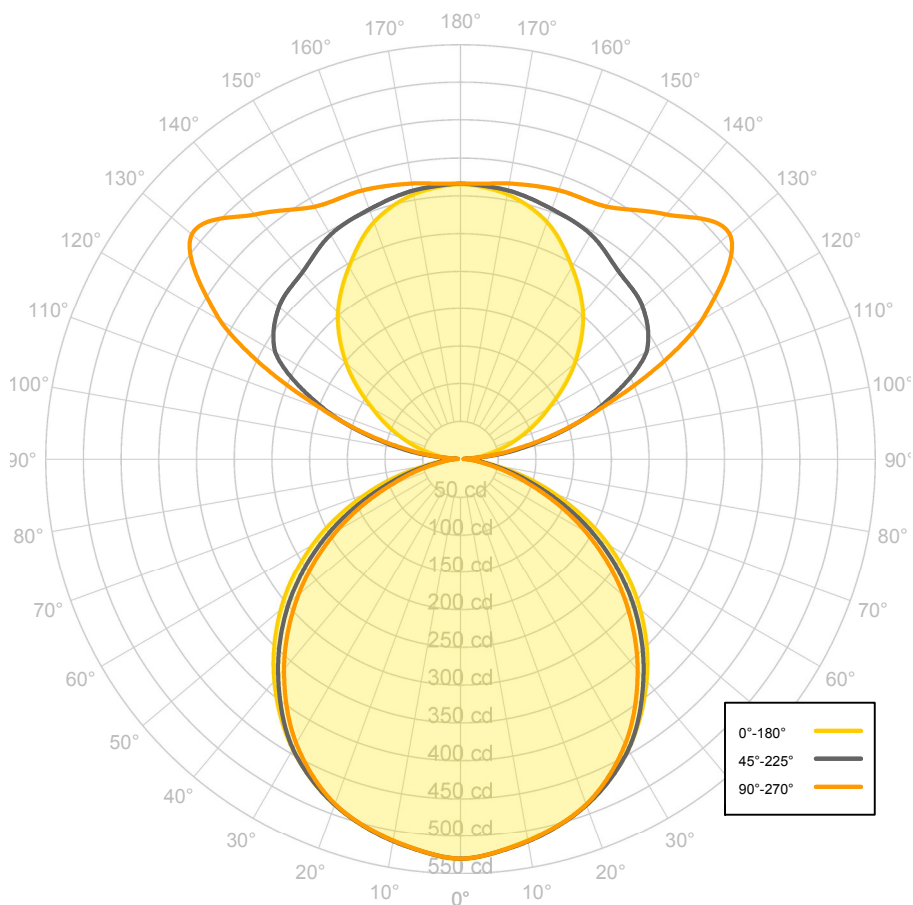
Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.21
Four luminaires	1.34

Full Beam Angle

0° - 180°	285.96°
90° - 270°	227.69°

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°	89.64	3.14%	90° - 100°	39.16	1.37%
10° - 20°	140.60	4.93%	100° - 110°	120.58	4.23%
20° - 30°	212.80	7.47%	100° - 120°	332.00	11.65%
30° - 40°	253.69	8.90%	120° - 130°	262.65	9.22%
40° - 50°	257.45	9.03%	130° - 140°	251.94	8.84%
50° - 60°	223.37	7.84%	140° - 150°	209.81	7.36%
60° - 70°	155.91	5.47%	150° - 160°	159.85	5.61%
70° - 80°	76.25	2.68%	160° - 170°	100.95	3.54%
80° - 90°	21.64	0.76%	170° - 180°	62.50	2.19%
0° - 90°	1,431.34	50.22%	0° - 180°	2,850.21	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	531.10	531.10	531.10	531.10	531.10
10.00°	514.24	516.56	516.00	514.00	515.28
20.00°	487.77	488.94	489.22	489.97	488.18
30.00°	444.63	445.06	445.58	439.23	437.05
40.00°	384.11	384.06	377.53	369.11	365.33
50.00°	311.05	309.76	298.32	287.13	281.87
60.00°	226.54	221.71	206.84	193.56	188.99
70.00°	132.16	124.94	109.87	99.05	94.35
80.00°	46.77	41.37	32.87	28.11	26.34
90.00°	5.41	7.00	6.03	3.78	3.46
100.00°	32.89	52.85	82.29	80.71	73.20
110.00°	81.26	114.61	192.83	207.48	199.93
120.00°	134.40	173.32	285.11	360.99	370.59
130.00°	197.72	224.95	314.94	421.08	465.63
140.00°	252.82	270.26	325.58	388.28	423.78
150.00°	295.52	304.85	344.53	374.45	386.87
160.00°	335.38	337.54	353.06	370.12	379.63
170.00°	357.39	358.42	361.97	368.41	371.33
180.00°	365.38	365.38	365.38	365.38	365.38

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	4,243	4,243	4,243
45.00°	3,628	2,163	1,828
55.00°	3,350	1,681	1,351
65.00°	2,881	1,133	852
75.00°	2,112	571	394
85.00°	1,231	183	110



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	3,055	3,055	3,055	3,055	2,819	2,819	2,819	2,819	2,379	2,379	2,379	1,976	1,976	1,976	1,605	1,605	1,605	1,431
	1	2,795	2,674	2,566	2,468	2,576	2,472	2,380	2,295	2,095	2,028	1,967	1,748	1,702	1,658	1,429	1,398	1,368	1,219
	2	2,550	2,343	2,171	2,027	2,347	2,169	2,021	1,895	1,843	1,734	1,639	1,543	1,464	1,395	1,265	1,210	1,162	1,031
	3	2,330	2,064	1,859	1,695	2,143	1,914	1,734	1,590	1,631	1,496	1,384	1,369	1,270	1,187	1,126	1,056	996	880
	4	2,134	1,831	1,609	1,439	1,963	1,700	1,504	1,353	1,453	1,304	1,185	1,224	1,112	1,022	1,010	930	863	760
	5	1,962	1,635	1,406	1,237	1,805	1,520	1,318	1,166	1,304	1,147	1,027	1,102	983	890	914	827	757	665
	6	1,809	1,469	1,241	1,077	1,666	1,368	1,165	1,017	1,177	1,018	899	999	877	784	832	741	670	588
	7	1,675	1,328	1,104	946	1,543	1,239	1,038	895	1,070	911	795	911	788	696	763	670	599	525
	8	1,556	1,208	990	839	1,436	1,129	933	796	978	821	709	837	714	624	703	610	540	474
	9	1,451	1,105	894	751	1,340	1,035	844	713	899	746	638	772	651	564	652	559	491	430
10	1,357	1,016	813	677	1,255	953	768	644	831	681	578	716	597	513	607	515	449	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