



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-I5-30-80-FW-BW-W

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

Test Number

IES-P00363

Test Date

Mon Oct 04 11:26:15 2021

The results contained in this report pertain only to the tested sample.
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MUS-xR-4-D3-I5-30-80-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:	29.54 W
Lumens:	3,458.07 lm
Efficiency:	N/A
Efficacy:	115.2 lm/W

Spacing Criterion

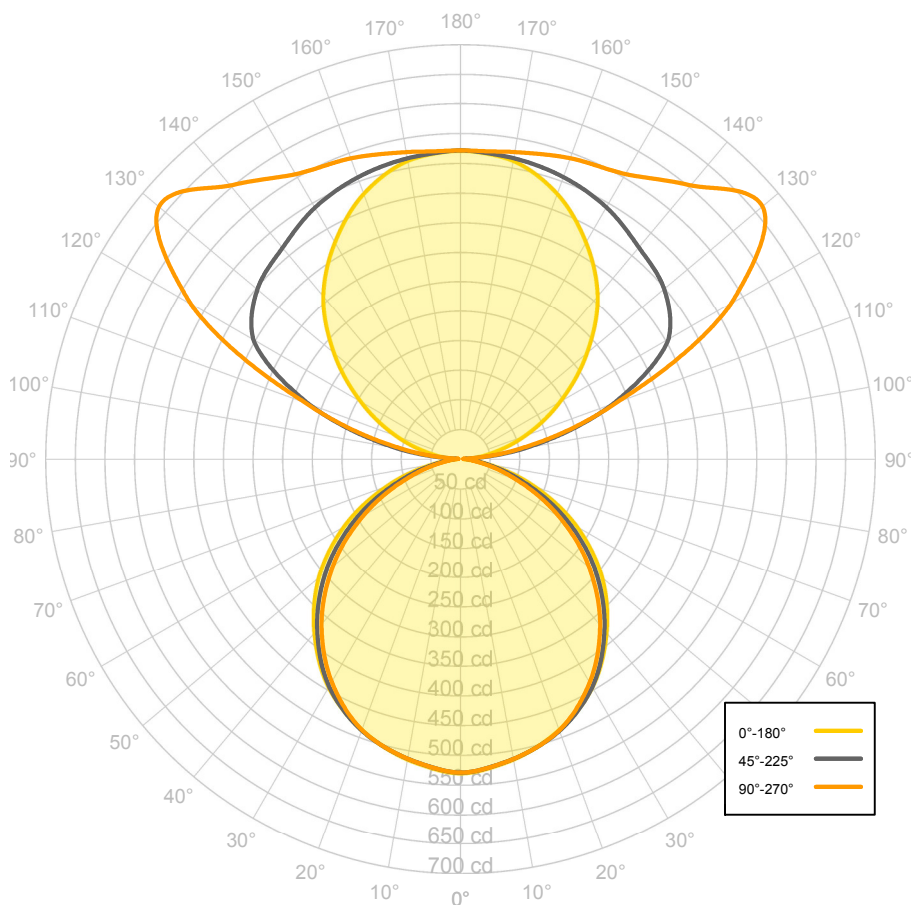
Two luminaires, plane 0°	1.24
Two luminaires, plane 90°	1.21
Four luminaires	1.34

Full Beam Angle

0° - 180°	273.23°
90° - 270°	224.02°

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°	89.56	2.59%	90° - 100°	55.42	1.60%
10° - 20°	140.59	4.07%	100° - 110°	172.40	4.99%
20° - 30°	212.78	6.15%	100° - 120°	474.38	13.72%
30° - 40°	253.83	7.34%	120° - 130°	374.98	10.84%
40° - 50°	257.62	7.45%	130° - 140°	359.93	10.41%
50° - 60°	223.26	6.46%	140° - 150°	300.10	8.68%
60° - 70°	155.75	4.50%	150° - 160°	228.56	6.61%
70° - 80°	76.09	2.20%	160° - 170°	144.05	4.17%
80° - 90°	22.15	0.64%	170° - 180°	89.03	2.57%
0° - 90°	1,431.62	41.40%	0° - 180°	3,458.07	100.00%



Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	530.59	530.59	530.59	530.59	530.59
10.00°	515.13	514.62	515.13	514.86	515.20
20.00°	486.68	489.82	489.21	490.29	488.12
30.00°	445.24	445.88	445.09	438.25	436.20
40.00°	383.67	385.99	377.83	368.81	366.33
50.00°	312.32	309.80	298.32	285.99	282.27
60.00°	227.01	221.83	206.36	193.43	188.18
70.00°	131.81	124.44	109.79	98.97	94.65
80.00°	46.72	41.23	32.72	27.85	26.50
90.00°	6.45	8.84	7.39	4.12	3.80
100.00°	45.98	75.83	118.45	115.29	105.19
110.00°	115.75	164.03	275.85	297.29	282.88
120.00°	194.12	246.99	405.58	516.21	529.92
130.00°	278.60	322.30	448.18	602.55	665.19
140.00°	360.22	385.65	467.43	556.36	603.62
150.00°	423.61	436.57	491.36	534.94	555.89
160.00°	477.43	481.29	506.81	529.55	540.75
170.00°	512.01	509.08	516.02	523.05	526.53
180.00°	521.31	521.31	521.31	521.31	521.31

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	4,239	4,239	4,239
45.00°	3,632	2,164	1,832
55.00°	3,361	1,679	1,349
65.00°	2,882	1,131	850
75.00°	2,107	570	395
85.00°	1,254	189	112



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	3,634	3,634	3,634	3,634	3,314	3,314	3,314	3,314	2,716	2,716	2,716	2,170	2,170	2,170	1,668	1,668	1,668	1,432
	1	3,321	3,176	3,046	2,928	3,024	2,902	2,792	2,692	2,389	2,312	2,241	1,917	1,866	1,818	1,483	1,450	1,420	1,219
	2	3,029	2,781	2,576	2,403	2,755	2,544	2,369	2,220	2,100	1,974	1,865	1,691	1,604	1,528	1,312	1,256	1,205	1,031
	3	2,766	2,448	2,202	2,006	2,514	2,243	2,031	1,860	1,857	1,702	1,574	1,500	1,390	1,298	1,168	1,095	1,032	880
	4	2,532	2,169	1,903	1,700	2,301	1,990	1,759	1,580	1,653	1,481	1,345	1,339	1,216	1,116	1,048	964	894	760
	5	2,325	1,934	1,660	1,459	2,114	1,777	1,538	1,359	1,481	1,301	1,162	1,205	1,074	971	947	856	783	665
	6	2,142	1,735	1,462	1,265	1,949	1,597	1,356	1,181	1,335	1,152	1,015	1,091	956	853	862	767	693	588
	7	1,981	1,566	1,297	1,109	1,804	1,444	1,206	1,037	1,211	1,029	895	994	858	756	789	693	619	525
	8	1,838	1,422	1,160	980	1,676	1,313	1,080	919	1,105	925	797	911	775	676	727	630	557	473
	9	1,712	1,298	1,045	874	1,562	1,201	975	820	1,014	838	714	839	705	609	673	577	506	430
10	1,600	1,192	947	785	1,462	1,104	885	738	936	764	645	777	646	553	627	531	462	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