LightLab INTERNATIONAL ALLENTOWN LLC

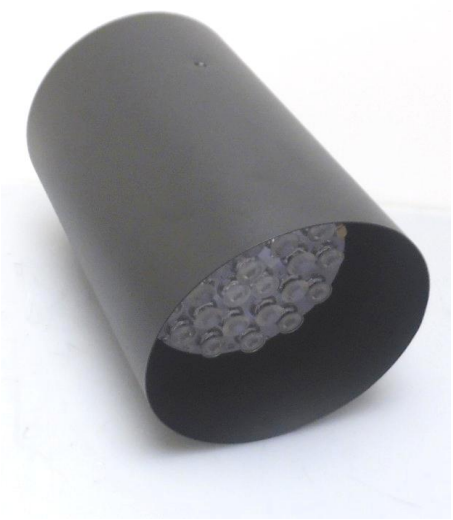
NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA003089-021

Indoor Distribution Photometry Test Report

Catalog Number: AX-75-30-54-D-B-M-N-515-R-N
Pendant/highbay mounted, spun black aluminum outer housing,
extruded aluminum heatsink and formed aluminum frame, no enclosure
24 white LEDs with clear and frosted plastic optics below each.
One MeanWell XLG-200-24-A LED driver



Prepared For:
Aquarii
6805 Newbrook Avenue
East Syracuse, NY 13057, USA

Performance Summary					
Input Voltage	120.0	Vac	Luminous Flux	6910.1	Lumens
Input Current	0.5669	A	Total Efficacy	103.9	Lm/W
Input Power	66.50	W	Downward Flux	6910.1	Lumens
Frequency	60.00	Hz	Downward Flux	100.0	% of Total
Power Factor	0.978				
Current THD	5.2	%			

This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 09/24/2026
Report date: 09/25/2026

Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.09.25 16:04:27 -04'00'

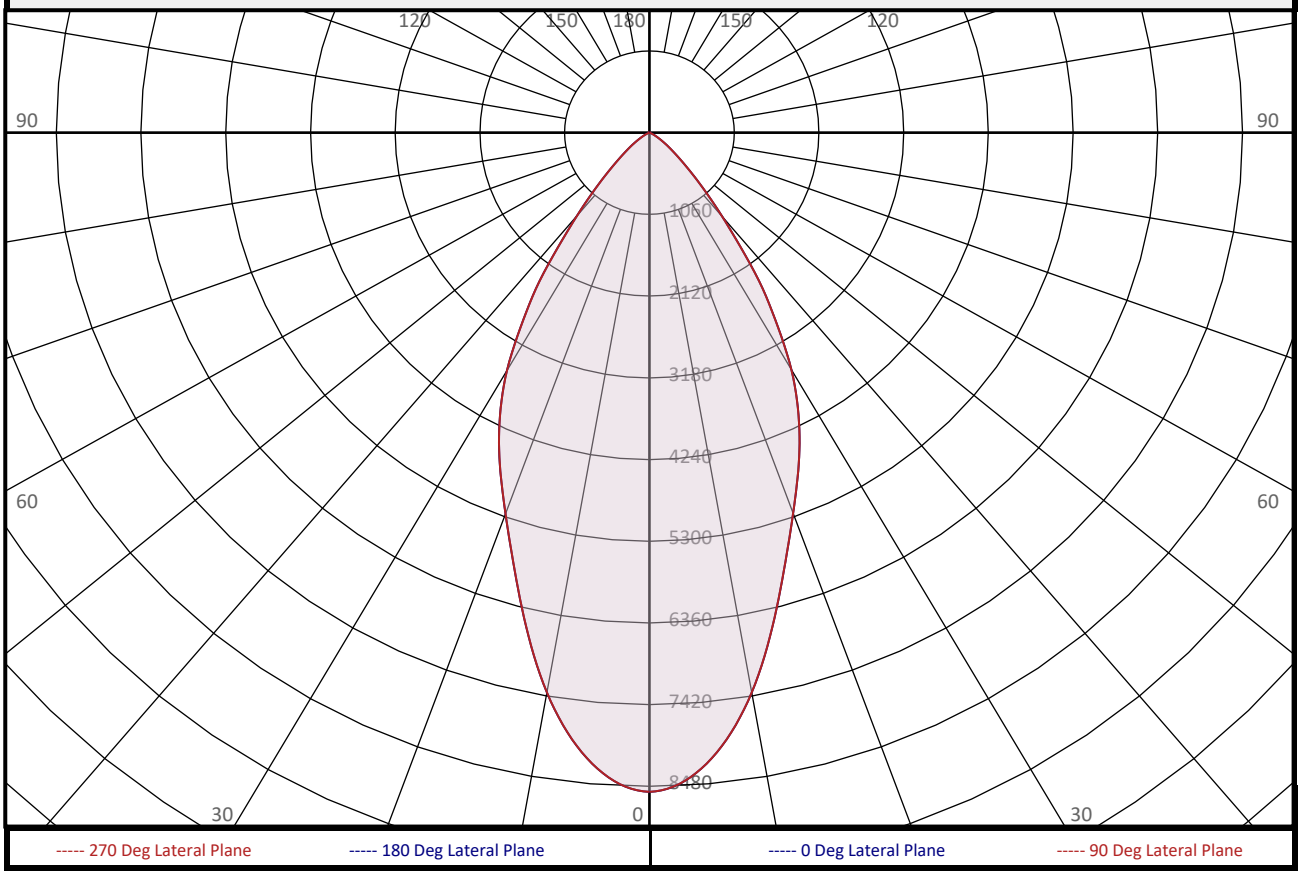
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Report of Test

LLIA003089-021

Polar Plot of Candela



Zonal Flux Summary

Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total	Zone (Deg Vert)	Flux (Lumens)	Percent of Total
0-10	757.7	11.0%	90-100	0.0	0.0%	0-20	2504	36.2%
10-20	1746	25.3%	100-110	0.0	0.0%	0-30	4532	65.6%
20-30	2028	29.4%	110-120	0.0	0.0%	0-40	6048	87.5%
30-40	1515	21.9%	120-130	0.0	0.0%	0-60	6863	99.3%
40-50	616.1	8.9%	130-140	0.0	0.0%	0-80	6909	100.0%
50-60	199.1	2.9%	140-150	0.0	0.0%	10-90	6152	89.0%
60-70	40.8	0.6%	150-160	0.0	0.0%	20-50	4160	60.2%
70-80	5.3	0.1%	160-170	0.0	0.0%	40-90	862.5	12.5%
80-90	1.1	0.0%	170-180	0.0	0.0%	60-90	47.2	0.7%
0-90	6910	100.0%	90-180	0.0	0.0%	0-180	6910	100.0%

Report of Test

LLIA003089-021

Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles									
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	8552	8552	8552	8552	8552	8552	8552	8552	8552
2.5	8461	8461	8461	8461	8461	8461	8461	8461	8461
5	8218	8218	8218	8218	8218	8218	8218	8218	8218
7.5	7848	7848	7848	7848	7848	7848	7848	7848	7848
10	7376	7376	7376	7376	7376	7376	7376	7376	7376
12.5	6826	6826	6826	6826	6826	6826	6826	6826	6826
15	6255	6255	6255	6255	6255	6255	6255	6255	6255
17.5	5722	5722	5722	5722	5722	5722	5722	5722	5722
20	5259	5259	5259	5259	5259	5259	5259	5259	5259
22.5	4847	4847	4847	4847	4847	4847	4847	4847	4847
25	4449	4449	4449	4449	4449	4449	4449	4449	4449
27.5	4026	4026	4026	4026	4026	4026	4026	4026	4026
30	3559	3559	3559	3559	3559	3559	3559	3559	3559
32.5	3001	3001	3001	3001	3001	3001	3001	3001	3001
35	2476	2476	2476	2476	2476	2476	2476	2476	2476
37.5	1885	1885	1885	1885	1885	1885	1885	1885	1885
40	1408	1408	1408	1408	1408	1408	1408	1408	1408
42.5	1044	1044	1044	1044	1044	1044	1044	1044	1044
45	761	761	761	761	761	761	761	761	761
47.5	553	553	553	553	553	553	553	553	553
50	405	405	405	405	405	405	405	405	405
52.5	297	297	297	297	297	297	297	297	297
55	212	212	212	212	212	212	212	212	212
57.5	146	146	146	146	146	146	146	146	146
60	98	98	98	98	98	98	98	98	98
62.5	63	63	63	63	63	63	63	63	63
65	37	37	37	37	37	37	37	37	37
67.5	17	17	17	17	17	17	17	17	17
70	8	8	8	8	8	8	8	8	8
72.5	6	6	6	6	6	6	6	6	6
75	5	5	5	5	5	5	5	5	5
77.5	4	4	4	4	4	4	4	4	4
80	2	2	2	2	2	2	2	2	2
82.5	2	2	2	2	2	2	2	2	2
85	1	1	1	1	1	1	1	1	1
87.5	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0

16 lateral half-planes of data were acquired, 22.5 degree increments shown.

Report of Test

LLIA003089-021

Luminous Intensity (Candela) Table

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.	Lateral (C-Plane) Angles								
	0	22.5	45	67.5	90	112.5	135	157.5	180
90	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0

16 lateral half-planes of data were acquired, 22.5 degree increments shown.

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NVLAP TESTING Lab Code: 201079-0

Report of Test

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Coefficients of Utilization/Room Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80					70					50				30				10			0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10	0
RCR																						
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102	100
1	113	110	108	106		111	108	106	104		104	102	101		100	99	98		97	96	95	93
2	107	102	98	95		105	101	97	94		97	94	92		94	92	90		92	90	88	86
3	102	95	90	86		100	94	89	85		91	87	84		89	85	82		86	83	81	79
4	96	88	83	78		94	87	82	78		85	81	77		83	79	76		81	78	75	74
5	91	82	76	72		89	82	76	72		80	75	71		78	74	70		76	73	70	68
6	86	77	71	66		85	76	70	66		75	70	66		73	69	65		72	68	65	63
7	82	72	66	62		81	72	66	62		70	65	61		69	64	61		68	64	61	59
8	78	68	62	58		77	67	61	57		66	61	57		65	60	57		64	60	57	55
9	74	64	58	54		73	64	58	54		63	57	54		62	57	53		61	56	53	52
10	70	60	54	50		69	60	54	50		59	54	50		58	54	50		58	53	50	49

For absolute test reports, RUs are expressed as a percentage of total lumen output. For relative test reports, CUs are expressed as a percentage of total lamp output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Ground-level distance to half-of-nadir illuminance (ft) 0-180 deg	90-270 deg
6.0	237.6	4.46	4.46
8.0	133.6	5.95	5.95
10.0	85.5	7.44	7.44
12.0	59.4	8.92	8.92
14.0	43.6	10.41	10.41
16.0	33.4	11.90	11.90

Spacing Criterion

SC: 0.7

Average Luminance (cd/m^2)

	0 deg Plane	45 deg Plane	90 deg Plane
0	182194	182194	182194
45	22923	22923	22923
55	7863	7863	7863
65	1884	1884	1884
75	412	412	412
85	218	218	218

Beam and Field Angle

0-180 Degree Plane

Beam Angle: 52.1°

Field Angle: 88.2°

90-270 Degree Plane

Beam Angle: 52.1°

Field Angle: 88.2°

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Report of Test

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UGR Table - Corrected

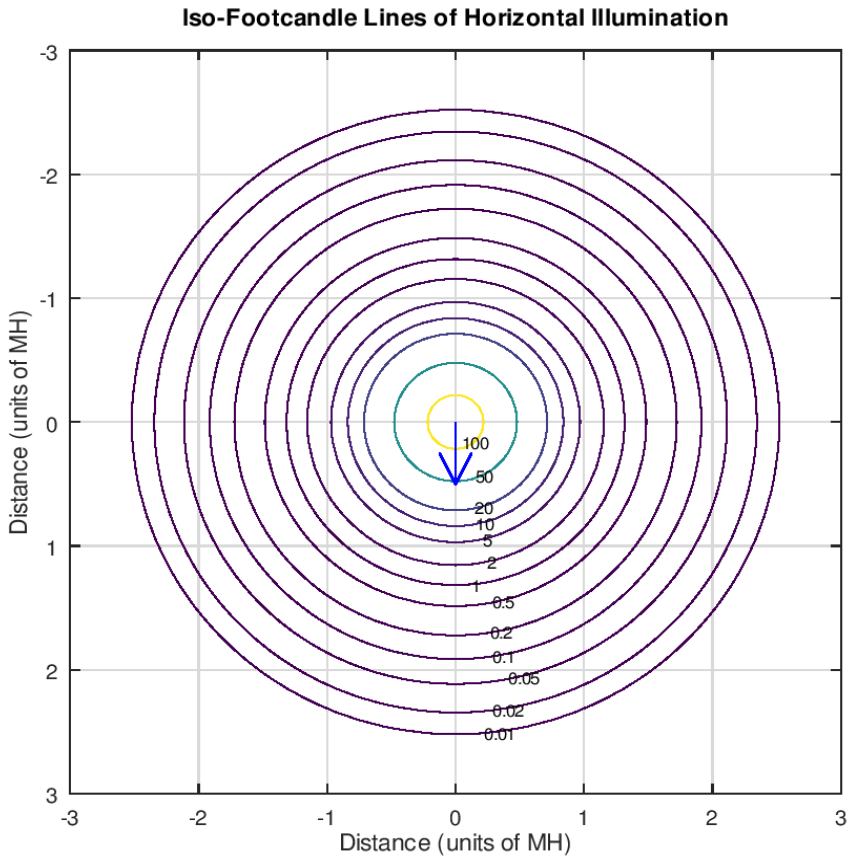
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	10.8	11.9	11.2	12.2	12.5	10.8	11.9	11.2	12.2	12.5
	3H	10.7	11.6	11.1	12.0	12.3	10.7	11.6	11.1	12.0	12.3
	4H	10.6	11.5	11.0	11.8	12.2	10.6	11.5	11.0	11.8	12.2
	6H	10.5	11.3	11.0	11.7	12.1	10.5	11.3	11.0	11.7	12.1
	8H	10.5	11.2	10.9	11.6	12.0	10.5	11.2	10.9	11.6	12.0
	12H	10.4	11.1	10.8	11.5	11.9	10.4	11.1	10.8	11.5	11.9
4H	2H	10.7	11.5	11.1	11.9	12.3	10.7	11.5	11.1	11.9	12.3
	3H	10.5	11.2	11.0	11.6	12.0	10.5	11.2	11.0	11.6	12.0
	4H	10.5	11.1	10.9	11.5	11.9	10.5	11.1	10.9	11.5	11.9
	6H	10.4	10.9	10.8	11.3	11.8	10.4	10.9	10.8	11.3	11.8
	8H	10.3	10.8	10.8	11.2	11.7	10.3	10.8	10.8	11.2	11.7
	12H	10.2	10.7	10.7	11.1	11.6	10.2	10.7	10.7	11.1	11.6
8H	4H	10.3	10.8	10.8	11.2	11.7	10.3	10.8	10.8	11.2	11.7
	6H	10.2	10.6	10.7	11.1	11.6	10.2	10.6	10.7	11.1	11.6
	8H	10.1	10.5	10.6	11.0	11.5	10.1	10.5	10.6	11.0	11.5
	12H	10.1	10.4	10.6	10.9	11.4	10.1	10.4	10.6	10.9	11.4
12H	4H	10.2	10.6	10.7	11.1	11.6	10.2	10.6	10.7	11.1	11.6
	6H	10.1	10.5	10.6	10.9	11.5	10.1	10.5	10.6	10.9	11.5
	8H	10.1	10.4	10.6	10.9	11.4	10.1	10.4	10.6	10.9	11.4

Maximum UGR = 12.5

Report of Test

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Iso-Illuminance Plot

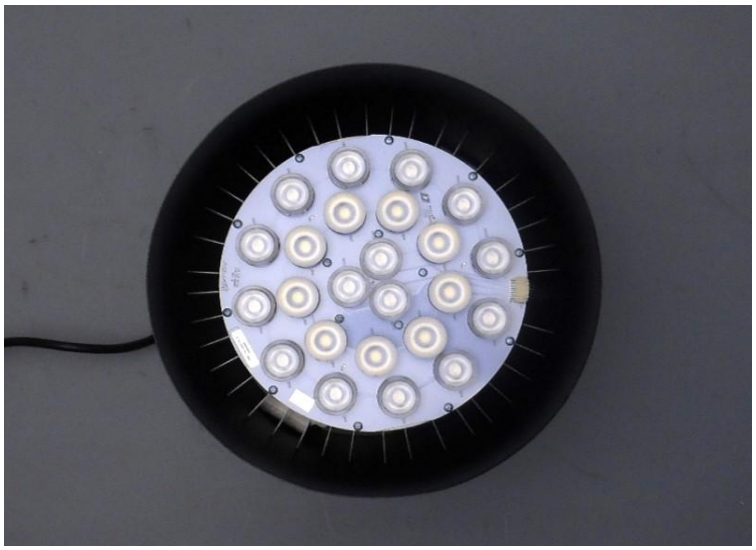


The isofootcandle values shown in the plot above are based on a mounting height of h = 8.0 feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.

Report of Test

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Additional Pictures of Test Subject





Report of Test

LLIA003089-021

Test Distance	9.5 m
Ambient Temperature	25.4 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of IES LM-79-24. Format of reports and angular increments based on IES LM-41-20 and LM-46-20.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE C-Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.