LightLab INTERNATIONAL ALLENTOWN LLC

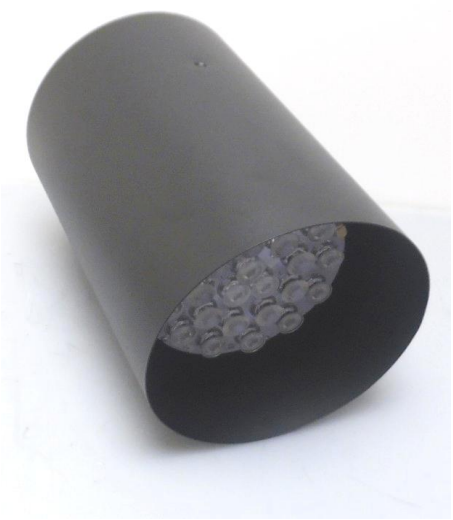
NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA003089-022

Indoor Distribution Photometry Test Report

Catalog Number: AX-100-30-54-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	9105.9	Lumens
Input Current	0.7880	A	Total Efficacy	97.3	Lm/W
Input Power	93.57	W	Downward Flux	9105.9	Lumens
Frequency	60.00	Hz	Downward Flux	100.0	% of Total
Power Factor	0.989				
Current THD	4.4	%			

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

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

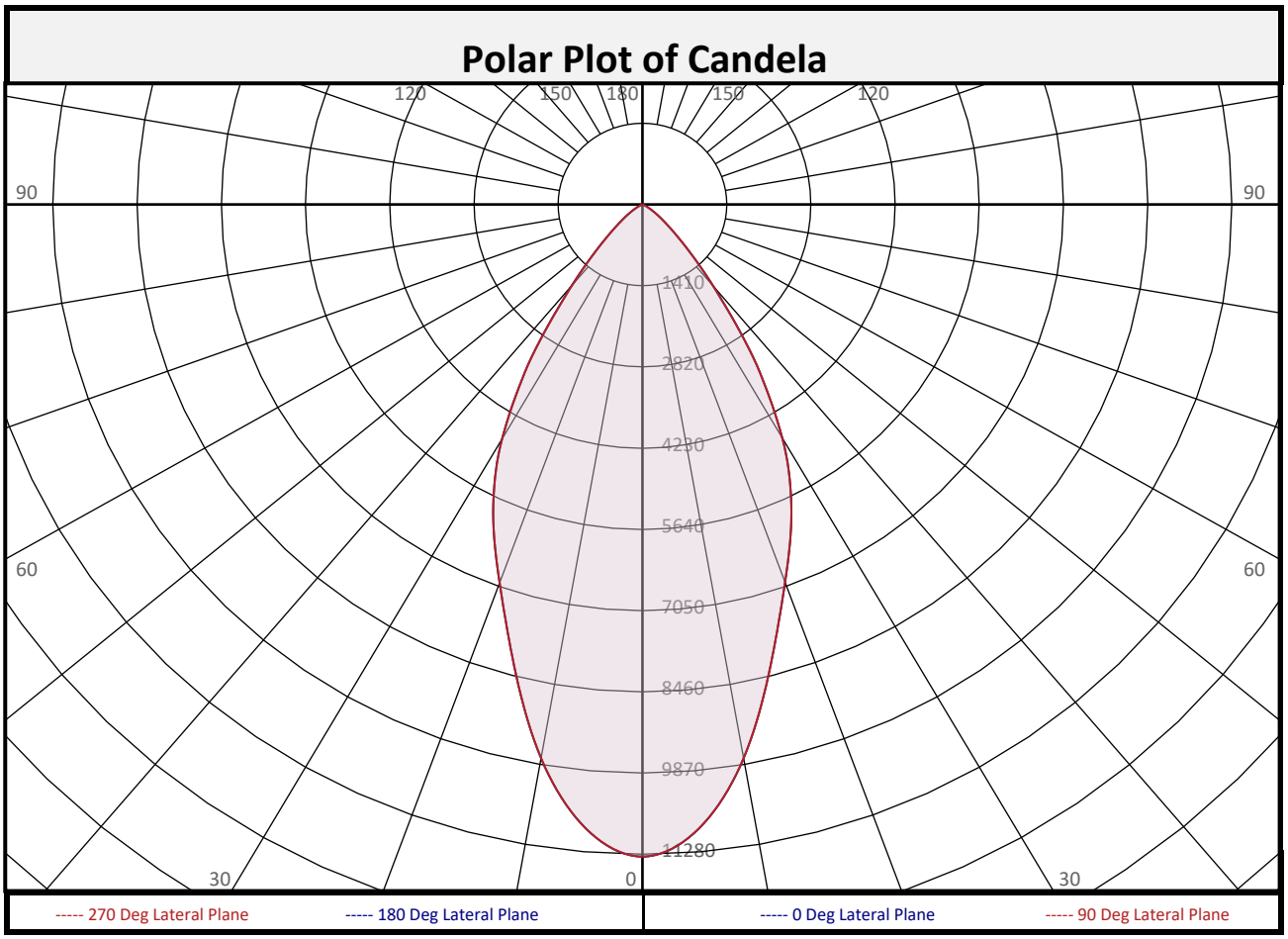
Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.09.25 16:05:04 -04'00'

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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	1003	11.0%	90-100	0.0	0.0%	0-20	3318	36.4%
10-20	2316	25.4%	100-110	0.0	0.0%	0-30	6010	66.0%
20-30	2692	29.6%	110-120	0.0	0.0%	0-40	7994	87.8%
30-40	1984	21.8%	120-130	0.0	0.0%	0-60	9047	99.4%
40-50	798.2	8.8%	130-140	0.0	0.0%	0-80	9105	100.0%
50-60	254.6	2.8%	140-150	0.0	0.0%	10-90	8103	89.0%
60-70	51.3	0.6%	150-160	0.0	0.0%	20-50	5474	60.1%
70-80	6.6	0.1%	160-170	0.0	0.0%	40-90	1112	12.2%
80-90	0.9	0.0%	170-180	0.0	0.0%	60-90	58.9	0.6%
0-90	9106	100.0%	90-180	0.0	0.0%	0-180	9106	100.0%

Report of Test

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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	11324	11324	11324	11324	11324	11324	11324	11324	11324
2.5	11200	11200	11200	11200	11200	11200	11200	11200	11200
5	10875	10875	10875	10875	10875	10875	10875	10875	10875
7.5	10385	10385	10385	10385	10385	10385	10385	10385	10385
10	9763	9763	9763	9763	9763	9763	9763	9763	9763
12.5	9040	9040	9040	9040	9040	9040	9040	9040	9040
15	8294	8294	8294	8294	8294	8294	8294	8294	8294
17.5	7597	7597	7597	7597	7597	7597	7597	7597	7597
20	6986	6986	6986	6986	6986	6986	6986	6986	6986
22.5	6443	6443	6443	6443	6443	6443	6443	6443	6443
25	5910	5910	5910	5910	5910	5910	5910	5910	5910
27.5	5339	5339	5339	5339	5339	5339	5339	5339	5339
30	4693	4693	4693	4693	4693	4693	4693	4693	4693
32.5	3952	3952	3952	3952	3952	3952	3952	3952	3952
35	3230	3230	3230	3230	3230	3230	3230	3230	3230
37.5	2457	2457	2457	2457	2457	2457	2457	2457	2457
40	1835	1835	1835	1835	1835	1835	1835	1835	1835
42.5	1355	1355	1355	1355	1355	1355	1355	1355	1355
45	984	984	984	984	984	984	984	984	984
47.5	715	715	715	715	715	715	715	715	715
50	520	520	520	520	520	520	520	520	520
52.5	382	382	382	382	382	382	382	382	382
55	271	271	271	271	271	271	271	271	271
57.5	186	186	186	186	186	186	186	186	186
60	123	123	123	123	123	123	123	123	123
62.5	79	79	79	79	79	79	79	79	79
65	46	46	46	46	46	46	46	46	46
67.5	22	22	22	22	22	22	22	22	22
70	10	10	10	10	10	10	10	10	10
72.5	9	9	9	9	9	9	9	9	9
75	6	6	6	6	6	6	6	6	6
77.5	4	4	4	4	4	4	4	4	4
80	2	2	2	2	2	2	2	2	2
82.5	1	1	1	1	1	1	1	1	1
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

LLIA003089-022

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.

LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

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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		101	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	84	81	80
4	96	89	83	78		95	87	82	78		85	81	77		83	79	76		81	78	75	74
5	91	83	77	72		90	82	76	72		80	75	71		78	74	70		77	73	70	68
6	86	77	71	67		85	76	71	66		75	70	66		74	69	65		72	68	65	64
7	82	72	66	62		81	72	66	62		70	65	61		69	65	61		68	64	61	59
8	78	68	62	58		77	68	62	58		66	61	57		65	61	57		64	60	57	55
9	74	64	58	54		73	64	58	54		63	57	54		62	57	54		61	57	53	52
10	71	61	55	51		70	60	54	51		59	54	50		59	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	314.5	4.48	4.48
8.0	176.9	5.97	5.97
10.0	113.2	7.46	7.46
12.0	78.6	8.95	8.95
14.0	57.8	10.45	10.45
16.0	44.2	11.94	11.94

Spacing Criterion

SC: 0.7

Average Luminance (cd/m^2)

	0 deg Plane	45 deg Plane	90 deg Plane
0	241230	241230	241230
45	29655	29655	29655
55	10059	10059	10059
65	2341	2341	2341
75	520	520	520
85	164	164	164

Beam and Field Angle

0-180 Degree Plane

Beam Angle: 52.2°

Field Angle: 87.8°

90-270 Degree Plane

Beam Angle: 52.2°

Field Angle: 87.8°

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Report of Test

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UGR Table - Corrected

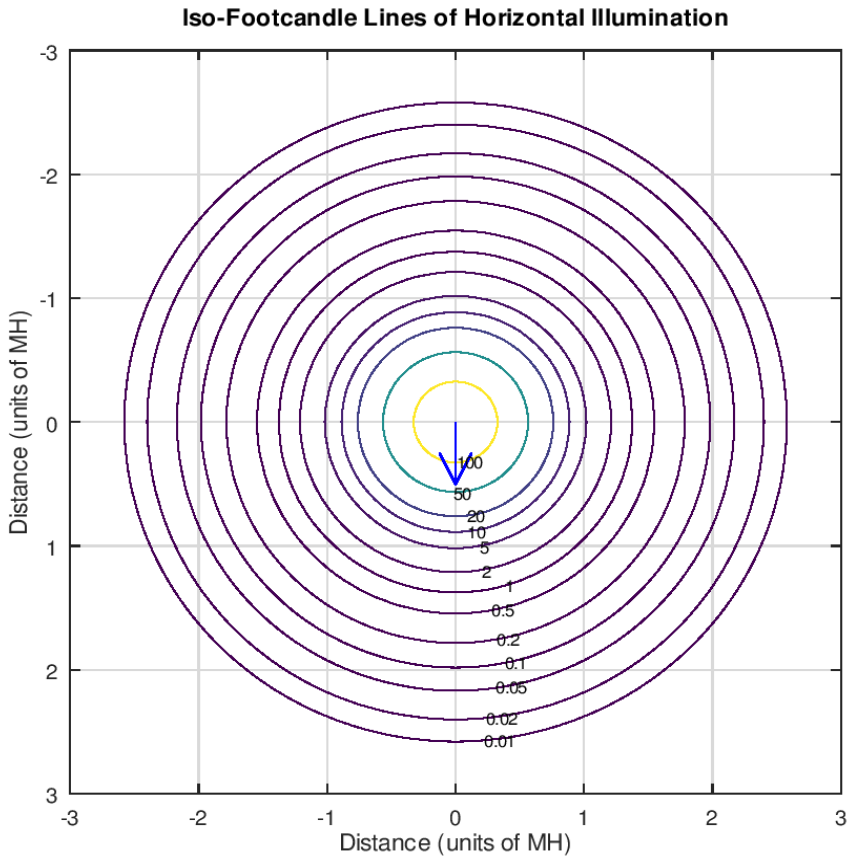
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	11.6	12.6	12.0	13.0	13.3	11.6	12.6	12.0	13.0	13.3
	3H	11.4	12.4	11.8	12.7	13.1	11.4	12.4	11.8	12.7	13.1
	4H	11.4	12.2	11.8	12.6	13.0	11.4	12.2	11.8	12.6	13.0
	6H	11.3	12.0	11.7	12.4	12.8	11.3	12.0	11.7	12.4	12.8
	8H	11.2	11.9	11.6	12.3	12.7	11.2	11.9	11.6	12.3	12.7
	12H	11.2	11.9	11.6	12.2	12.7	11.2	11.9	11.6	12.2	12.7
4H	2H	11.4	12.3	11.8	12.6	13.0	11.4	12.3	11.8	12.6	13.0
	3H	11.3	12.0	11.7	12.4	12.8	11.3	12.0	11.7	12.4	12.8
	4H	11.2	11.8	11.6	12.2	12.7	11.2	11.8	11.6	12.2	12.7
	6H	11.1	11.6	11.6	12.1	12.5	11.1	11.6	11.6	12.1	12.5
	8H	11.0	11.5	11.5	12.0	12.4	11.0	11.5	11.5	12.0	12.4
	12H	11.0	11.4	11.5	11.9	12.4	11.0	11.4	11.5	11.9	12.4
8H	4H	11.0	11.5	11.5	12.0	12.4	11.0	11.5	11.5	12.0	12.4
	6H	10.9	11.3	11.4	11.8	12.3	10.9	11.3	11.4	11.8	12.3
	8H	10.8	11.2	11.4	11.7	12.2	10.8	11.2	11.4	11.7	12.2
	12H	10.8	11.1	11.3	11.6	12.2	10.8	11.1	11.3	11.6	12.2
12H	4H	11.0	11.4	11.5	11.9	12.4	11.0	11.4	11.5	11.9	12.4
	6H	10.8	11.2	11.4	11.7	12.2	10.8	11.2	11.4	11.7	12.2
	8H	10.8	11.1	11.3	11.6	12.2	10.8	11.1	11.3	11.6	12.2

Maximum UGR = 13.3

Report of Test

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Iso-Illuminance Plot

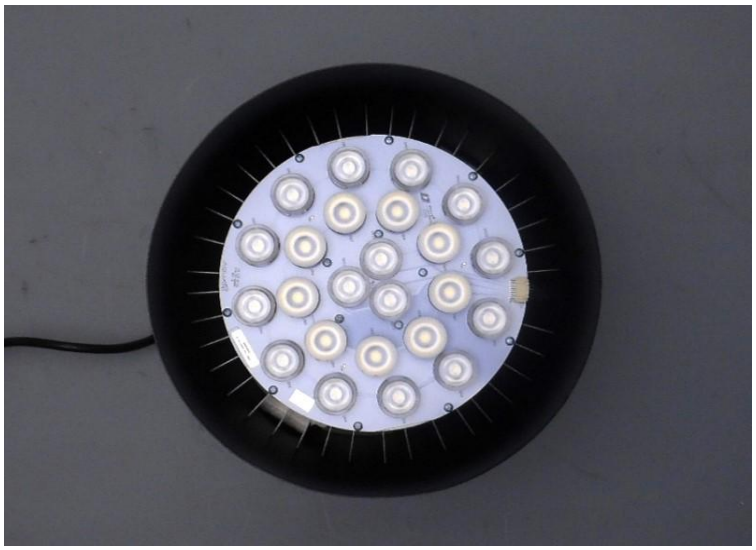


The isofootcandle values shown in the plot above are based on a mounting height of h = 8.0 feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution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

Report of Test

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Additional Pictures of Test Subject





Report of Test

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Test Distance	9.5 m
Ambient Temperature	24.6 °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.