LightLab INTERNATIONAL ALLENTOWN LLC

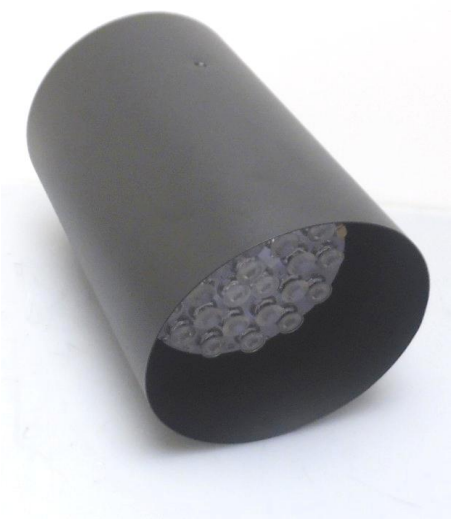
NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA003089-023

Indoor Distribution Photometry Test Report

Catalog Number: AX-125-30-54-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	10461.0	Lumens
Input Current	0.9461	A	Total Efficacy	92.8	Lm/W
Input Power	112.7	W	Downward Flux	10461.0	Lumens
Frequency	60.00	Hz	Downward Flux	100.0	% of Total
Power Factor	0.993				
Current THD	4.9	%			

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

Test date: 09/23/2026
Report date: 09/25/2026

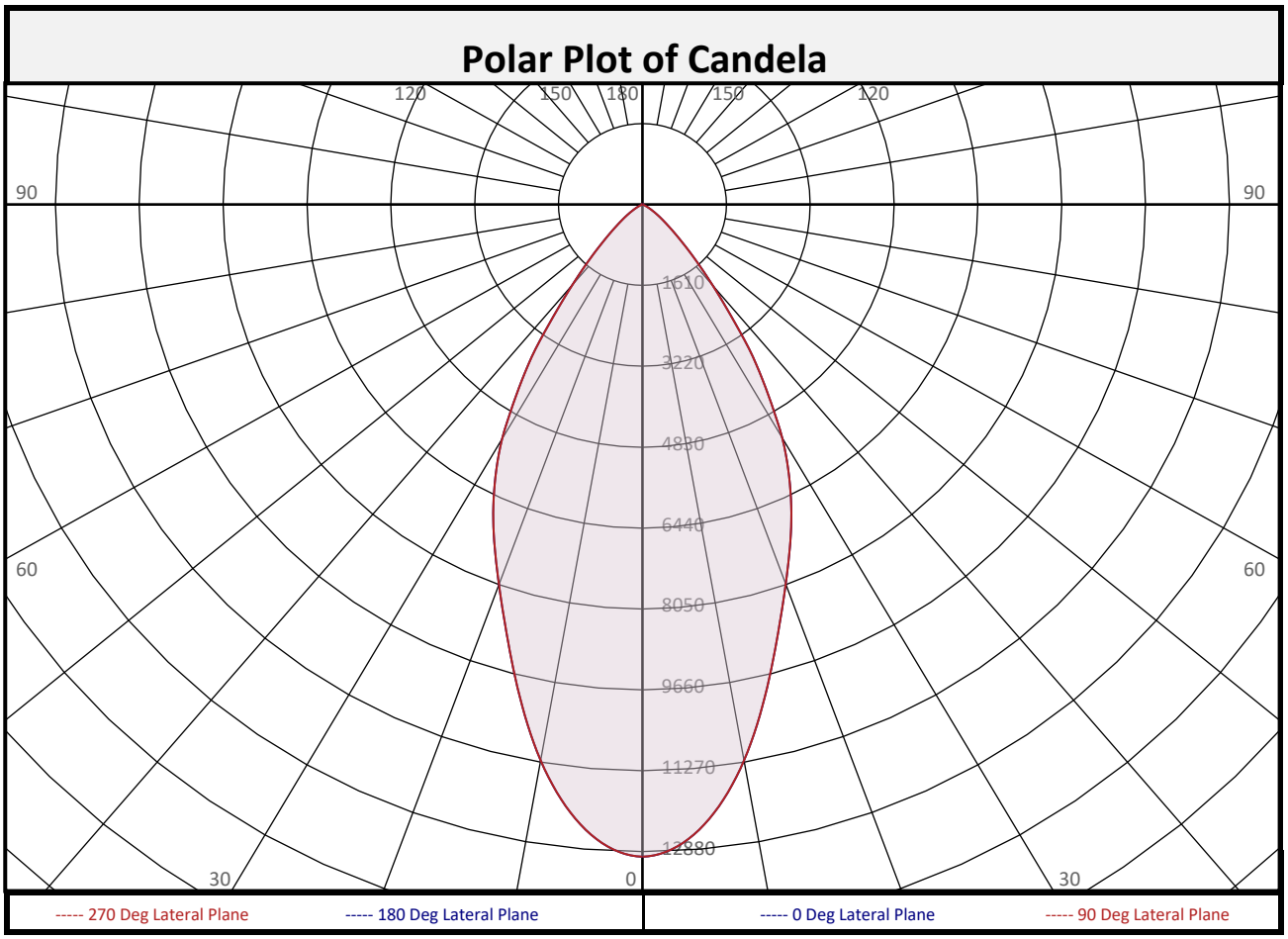
Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.09.25 16:05:42 -04'00'

North America (issuing laboratory)
LightLab International Allentown, LLC
905 Harrison Street, Suite 135
Allentown, PA 18103 USA
Ph: +1 484-273-0705
Fx: +1 484-209-5779
www.lightlaballentown.com

Australasia & S.E. Asia
LightLab International
50 Redcliffe Gardens Drive
Clontarf - Queensland, 4019, Australia
Ph : +61 7 3283 7862
Fx : +61 7 3283 8751
www.lightlabint.com

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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	1153	11.0%	90-100	0.0	0.0%	0-20	3823	36.5%
10-20	2670	25.5%	100-110	0.0	0.0%	0-30	6909	66.0%
20-30	3086	29.5%	110-120	0.0	0.0%	0-40	9177	87.7%
30-40	2267	21.7%	120-130	0.0	0.0%	0-60	10391	99.3%
40-50	916.1	8.8%	130-140	0.0	0.0%	0-80	10460	100.0%
50-60	298.0	2.8%	140-150	0.0	0.0%	10-90	9308	89.0%
60-70	61.3	0.6%	150-160	0.0	0.0%	20-50	6270	59.9%
70-80	7.8	0.1%	160-170	0.0	0.0%	40-90	1284	12.3%
80-90	1.2	0.0%	170-180	0.0	0.0%	60-90	70.2	0.7%
0-90	10461	100.0%	90-180	0.0	0.0%	0-180	10461	100.0%

Report of Test

LLIA003089-023

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	12983	12983	12983	12983	12983	12983	12983	12983	12983
2.5	12850	12850	12850	12850	12850	12850	12850	12850	12850
5	12495	12495	12495	12495	12495	12495	12495	12495	12495
7.5	11943	11943	11943	11943	11943	11943	11943	11943	11943
10	11238	11238	11238	11238	11238	11238	11238	11238	11238
12.5	10420	10420	10420	10420	10420	10420	10420	10420	10420
15	9570	9570	9570	9570	9570	9570	9570	9570	9570
17.5	8763	8763	8763	8763	8763	8763	8763	8763	8763
20	8048	8048	8048	8048	8048	8048	8048	8048	8048
22.5	7401	7401	7401	7401	7401	7401	7401	7401	7401
25	6773	6773	6773	6773	6773	6773	6773	6773	6773
27.5	6106	6106	6106	6106	6106	6106	6106	6106	6106
30	5380	5380	5380	5380	5380	5380	5380	5380	5380
32.5	4507	4507	4507	4507	4507	4507	4507	4507	4507
35	3702	3702	3702	3702	3702	3702	3702	3702	3702
37.5	2798	2798	2798	2798	2798	2798	2798	2798	2798
40	2093	2093	2093	2093	2093	2093	2093	2093	2093
42.5	1550	1550	1550	1550	1550	1550	1550	1550	1550
45	1128	1128	1128	1128	1128	1128	1128	1128	1128
47.5	824	824	824	824	824	824	824	824	824
50	604	604	604	604	604	604	604	604	604
52.5	445	445	445	445	445	445	445	445	445
55	318	318	318	318	318	318	318	318	318
57.5	220	220	220	220	220	220	220	220	220
60	147	147	147	147	147	147	147	147	147
62.5	94	94	94	94	94	94	94	94	94
65	56	56	56	56	56	56	56	56	56
67.5	26	26	26	26	26	26	26	26	26
70	12	12	12	12	12	12	12	12	12
72.5	10	10	10	10	10	10	10	10	10
75	7	7	7	7	7	7	7	7	7
77.5	5	5	5	5	5	5	5	5	5
80	3	3	3	3	3	3	3	3	3
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

LLIA003089-023

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		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	360.6	4.50	4.50
8.0	202.9	5.99	5.99
10.0	129.8	7.49	7.49
12.0	90.2	8.99	8.99
14.0	66.2	10.49	10.49
16.0	50.7	11.99	11.99

Spacing Criterion

SC: 0.7

Average Luminance (cd/m^2)

	0 deg Plane	45 deg Plane	90 deg Plane
0	276585	276585	276585
45	33974	33974	33974
55	11797	11797	11797
65	2824	2824	2824
75	610	610	610
85	215	215	215

Beam and Field Angle

0-180 Degree Plane

Beam Angle: 52.1°

Field Angle: 87.9°

90-270 Degree Plane

Beam Angle: 52.1°

Field Angle: 87.9°

North America (issuing laboratory)
LightLab International Allentown, LLC
905 Harrison Street, Suite 135
Allentown, PA 18103 USA
Ph: +1 484-273-0705
Fx: +1 484-209-5779
www.lightlaballentown.com

Australasia & S.E. Asia
LightLab International
50 Redcliffe Gardens Drive
Clontarf - Queensland, 4019, Australia
Ph : +61 7 3283 7862
Fx : +61 7 3283 8751
www.lightlabint.com

Report of Test

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UGR Table - Corrected

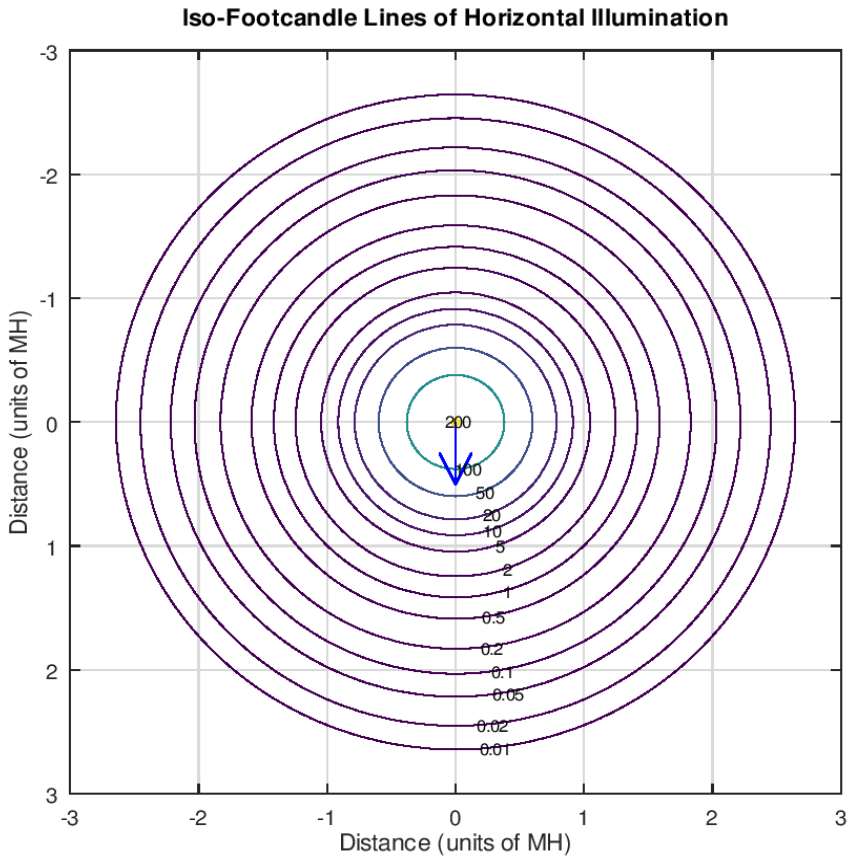
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.3	13.3	12.7	13.7	14.0	12.3	13.3	12.7	13.7	14.0
	3H	12.2	13.1	12.5	13.4	13.8	12.2	13.1	12.5	13.4	13.8
	4H	12.1	12.9	12.5	13.3	13.7	12.1	12.9	12.5	13.3	13.7
	6H	12.0	12.8	12.4	13.1	13.5	12.0	12.8	12.4	13.1	13.5
	8H	11.9	12.7	12.3	13.0	13.5	11.9	12.7	12.3	13.0	13.5
	12H	11.9	12.6	12.3	12.9	13.4	11.9	12.6	12.3	12.9	13.4
4H	2H	12.1	13.0	12.6	13.3	13.7	12.1	13.0	12.6	13.3	13.7
	3H	12.0	12.7	12.4	13.1	13.5	12.0	12.7	12.4	13.1	13.5
	4H	11.9	12.5	12.3	12.9	13.4	11.9	12.5	12.3	12.9	13.4
	6H	11.8	12.3	12.3	12.8	13.3	11.8	12.3	12.3	12.8	13.3
	8H	11.7	12.2	12.2	12.7	13.1	11.7	12.2	12.2	12.7	13.1
	12H	11.7	12.1	12.2	12.6	13.1	11.7	12.1	12.2	12.6	13.1
8H	4H	11.7	12.2	12.2	12.7	13.1	11.7	12.2	12.2	12.7	13.1
	6H	11.6	12.0	12.1	12.5	13.0	11.6	12.0	12.1	12.5	13.0
	8H	11.6	11.9	12.1	12.4	12.9	11.6	11.9	12.1	12.4	12.9
	12H	11.5	11.8	12.0	12.3	12.9	11.5	11.8	12.0	12.3	12.9
12H	4H	11.7	12.1	12.2	12.6	13.1	11.7	12.1	12.2	12.6	13.1
	6H	11.6	11.9	12.1	12.4	12.9	11.6	11.9	12.1	12.4	12.9
	8H	11.5	11.8	12.0	12.3	12.9	11.5	11.8	12.0	12.3	12.9

Maximum UGR = 14.0

Report of Test

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Iso-Illuminance Plot

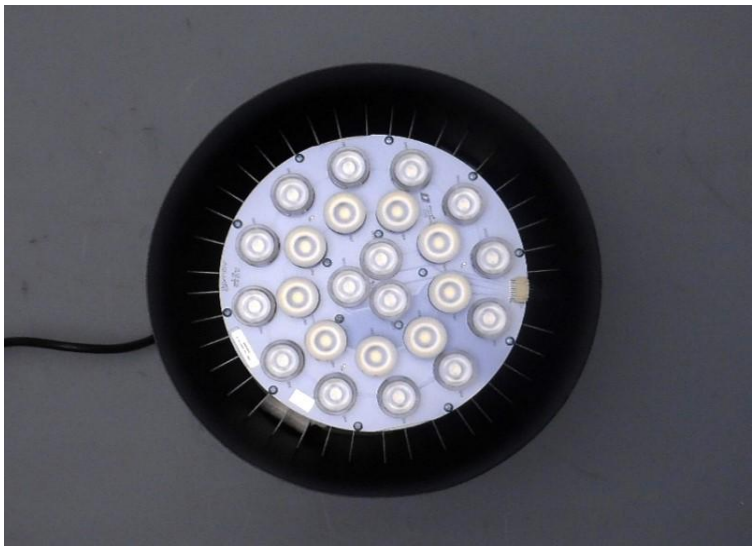


The isofootcandle values shown in the plot above are based on a mounting height of h = 8.0 feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution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

Report of Test

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Additional Pictures of Test Subject





Report of Test

LLIA003089-023

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.