LightLab INTERNATIONAL ALLENTOWN LLC

NVLAP TESTING Lab Code: 201079-0

Report of Test

LLIA003089-015

Indoor Distribution Photometry Test Report

Catalog Number: VN-75-R-60-D-B-M-4-515-R-H (All On Setting)
Pendant/highbay mounted, spun black aluminum outer housing, extruded aluminum heatsink and formed aluminum frame, frosted plastic enclosure below LEDs
7 RGBW LED clusters with clear prismatic plastic optics below each.
One MeanWell EPP-150-12 LED driver



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

Performance Summary					
Input Voltage	120.0	Vac	Luminous Flux	1323.3	Lumens
Input Current	0.5717	A	Total Efficacy	19.6	Lm/W
Input Power	67.59	W	Downward Flux	1323.3	Lumens
Frequency	60.00	Hz	Downward Flux	100.0	% of Total
Power Factor	0.985				
Current THD	6.2	%			

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

Test date: 09/21/2026
Report date: 09/23/2026

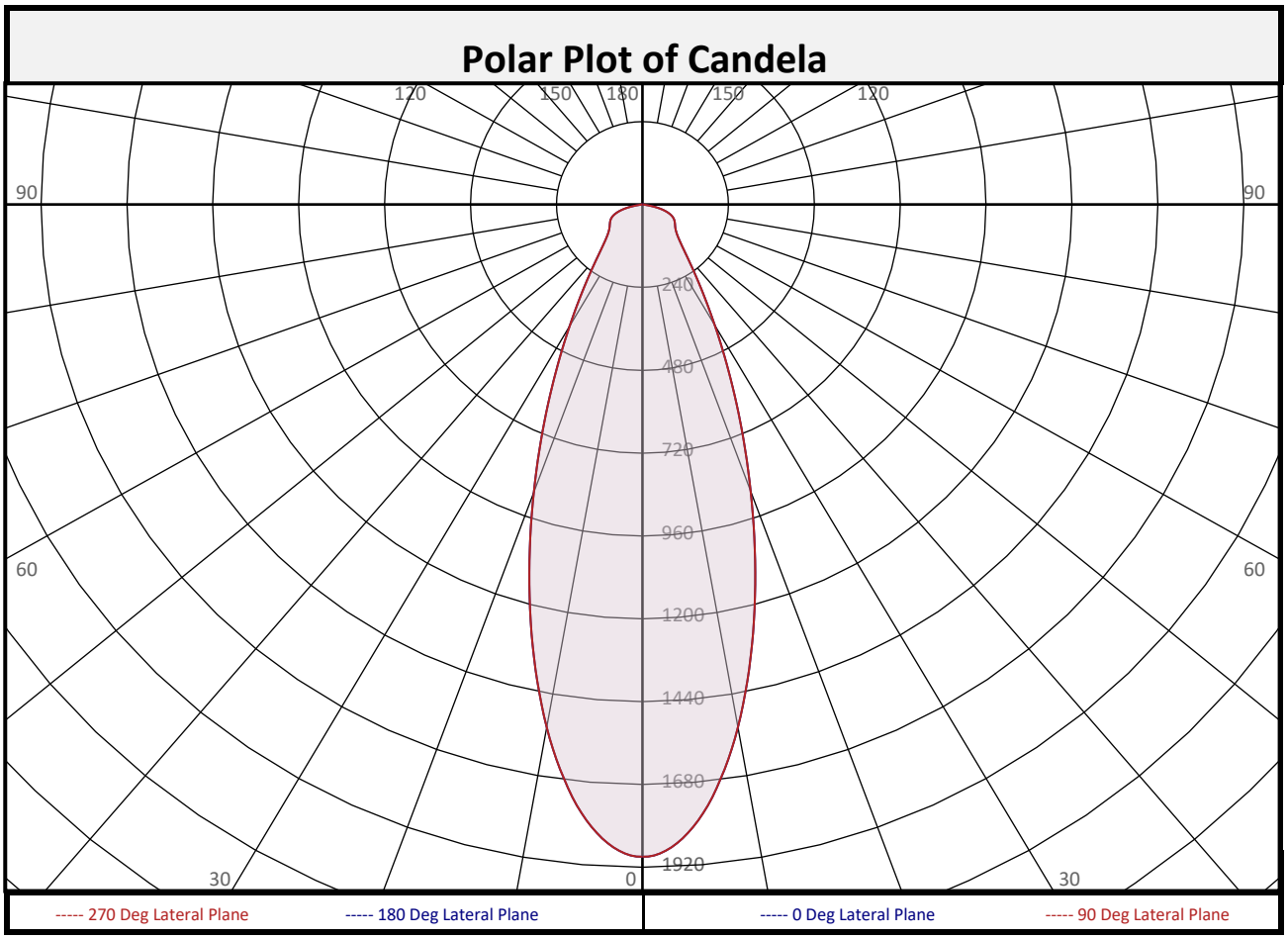
Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.09.23 14:52:12 -04'00'

North America (issuing laboratory)
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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	162.8	12.3%	90-100	0.0	0.0%	0-20	496.2	37.5%
10-20	333.4	25.2%	100-110	0.0	0.0%	0-30	777.2	58.7%
20-30	281.1	21.2%	110-120	0.0	0.0%	0-40	950.5	71.8%
30-40	173.3	13.1%	120-130	0.0	0.0%	0-60	1166	88.1%
40-50	115.2	8.7%	130-140	0.0	0.0%	0-80	1320	99.7%
50-60	100.8	7.6%	140-150	0.0	0.0%	10-90	1160	87.7%
60-70	94.4	7.1%	150-160	0.0	0.0%	20-50	569.5	43.0%
70-80	58.8	4.4%	160-170	0.0	0.0%	40-90	372.8	28.2%
80-90	3.6	0.3%	170-180	0.0	0.0%	60-90	156.9	11.9%
0-90	1323	100.0%	90-180	0.0	0.0%	0-180	1323	100.0%

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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	1889	1889	1889	1889	1889	1889	1889	1889	1889
2.5	1864	1864	1864	1864	1864	1864	1864	1864	1864
5	1791	1791	1791	1791	1791	1791	1791	1791	1791
7.5	1677	1677	1677	1677	1677	1677	1677	1677	1677
10	1538	1538	1538	1538	1538	1538	1538	1538	1538
12.5	1379	1379	1379	1379	1379	1379	1379	1379	1379
15	1212	1212	1212	1212	1212	1212	1212	1212	1212
17.5	1045	1045	1045	1045	1045	1045	1045	1045	1045
20	886	886	886	886	886	886	886	886	886
22.5	740	740	740	740	740	740	740	740	740
25	611	611	611	611	611	611	611	611	611
27.5	499	499	499	499	499	499	499	499	499
30	406	406	406	406	406	406	406	406	406
32.5	330	330	330	330	330	330	330	330	330
35	271	271	271	271	271	271	271	271	271
37.5	225	225	225	225	225	225	225	225	225
40	190	190	190	190	190	190	190	190	190
42.5	165	165	165	165	165	165	165	165	165
45	146	146	146	146	146	146	146	146	146
47.5	133	133	133	133	133	133	133	133	133
50	123	123	123	123	123	123	123	123	123
52.5	117	117	117	117	117	117	117	117	117
55	112	112	112	112	112	112	112	112	112
57.5	108	108	108	108	108	108	108	108	108
60	105	105	105	105	105	105	105	105	105
62.5	101	101	101	101	101	101	101	101	101
65	96	96	96	96	96	96	96	96	96
67.5	90	90	90	90	90	90	90	90	90
70	82	82	82	82	82	82	82	82	82
72.5	71	71	71	71	71	71	71	71	71
75	58	58	58	58	58	58	58	58	58
77.5	41	41	41	41	41	41	41	41	41
80	21	21	21	21	21	21	21	21	21
82.5	3	3	3	3	3	3	3	3	3
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.

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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
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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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	112	108	105	102		109	106	103	100		102	99	97		98	96	94		94	93	92	90
2	104	98	93	89		102	96	92	88		93	89	86		90	87	84		87	84	82	80
3	98	90	83	79		96	88	82	78		85	81	77		83	79	75		81	77	74	72
4	92	83	76	71		90	81	75	70		79	74	69		77	72	69		75	71	68	66
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	63	61
6	82	72	65	60		80	71	64	59		69	63	59		68	62	58		66	62	58	56
7	78	67	60	55		76	66	60	55		65	59	55		64	58	55		62	58	54	53
8	74	63	56	52		72	62	56	52		61	56	51		60	55	51		59	54	51	49
9	70	60	53	49		69	59	53	49		58	52	48		57	52	48		56	52	48	47
10	67	57	50	46		66	56	50	46		55	50	46		54	49	46		54	49	45	44

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	52.5	3.66	3.66
8.0	29.5	4.89	4.89
10.0	18.9	6.11	6.11
12.0	13.1	7.33	7.33
14.0	9.6	8.55	8.55
16.0	7.4	9.77	9.77

Spacing Criterion

SC: 0.6

Average Luminance (cd/m^2)

	0 deg Plane	45 deg Plane	90 deg Plane
0	88249	88249	88249
45	9655	9655	9655
55	9097	9097	9097
65	10644	10644	10644
75	10489	10489	10489
85	303	303	303

Beam and Field Angle

0-180 Degree Plane

Beam Angle: 38.1°

Field Angle: 80.2°

90-270 Degree Plane

Beam Angle: 38.1°

Field Angle: 80.2°

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UGR Table - Corrected

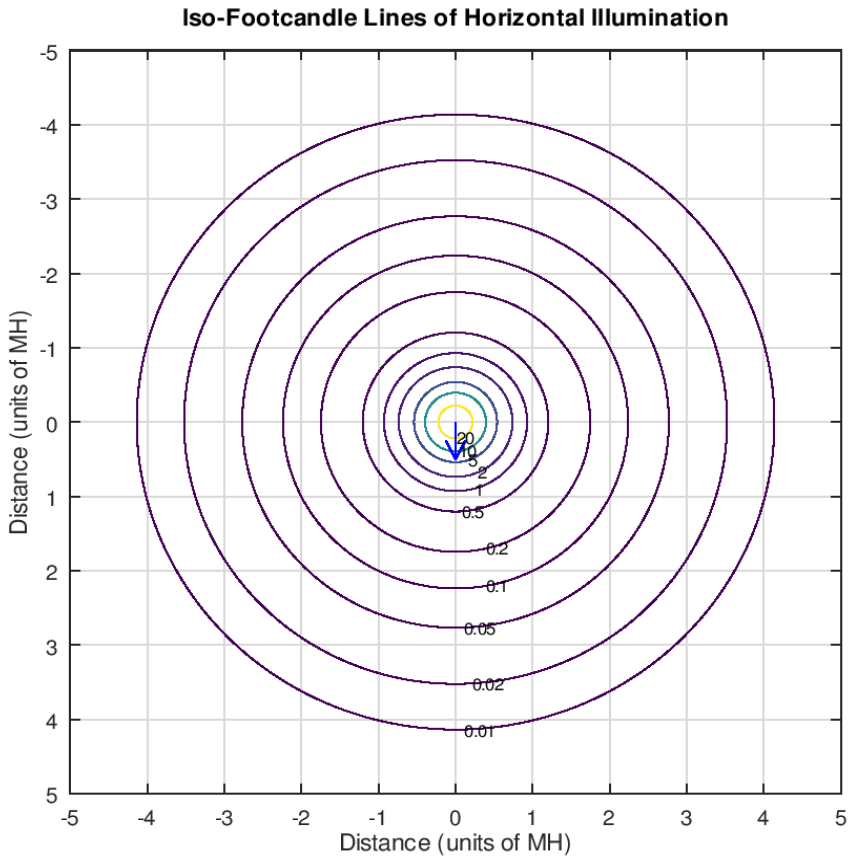
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.1	18.4	17.5	18.7	19.0	17.1	18.4	17.5	18.7	19.0
	3H	19.8	20.9	20.1	21.3	21.6	19.8	20.9	20.1	21.3	21.6
	4H	20.7	21.8	21.1	22.1	22.5	20.7	21.8	21.1	22.1	22.5
	6H	21.1	22.1	21.5	22.4	22.8	21.1	22.1	21.5	22.4	22.8
	8H	21.0	22.0	21.5	22.4	22.8	21.0	22.0	21.5	22.4	22.8
	12H	21.0	21.9	21.4	22.3	22.7	21.0	21.9	21.4	22.3	22.7
4H	2H	18.0	19.1	18.4	19.4	19.8	18.0	19.1	18.4	19.4	19.8
	3H	20.8	21.7	21.2	22.1	22.5	20.8	21.7	21.2	22.1	22.5
	4H	21.8	22.6	22.2	23.0	23.5	21.8	22.6	22.2	23.0	23.5
	6H	22.2	22.9	22.7	23.4	23.9	22.2	22.9	22.7	23.4	23.9
	8H	22.2	22.9	22.7	23.3	23.8	22.2	22.9	22.7	23.3	23.8
	12H	22.2	22.7	22.7	23.2	23.7	22.2	22.7	22.7	23.2	23.7
8H	4H	22.1	22.8	22.6	23.2	23.7	22.1	22.8	22.6	23.2	23.7
	6H	22.6	23.1	23.1	23.6	24.1	22.6	23.1	23.1	23.6	24.1
	8H	22.6	23.0	23.1	23.5	24.0	22.6	23.0	23.1	23.5	24.0
	12H	22.5	22.9	23.0	23.4	24.0	22.5	22.9	23.0	23.4	24.0
12H	4H	22.1	22.7	22.6	23.2	23.6	22.1	22.7	22.6	23.2	23.6
	6H	22.6	23.0	23.1	23.5	24.1	22.6	23.0	23.1	23.5	24.1
	8H	22.6	23.0	23.1	23.5	24.0	22.6	23.0	23.1	23.5	24.0

Maximum UGR = 24.1

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Iso-Illuminance Plot

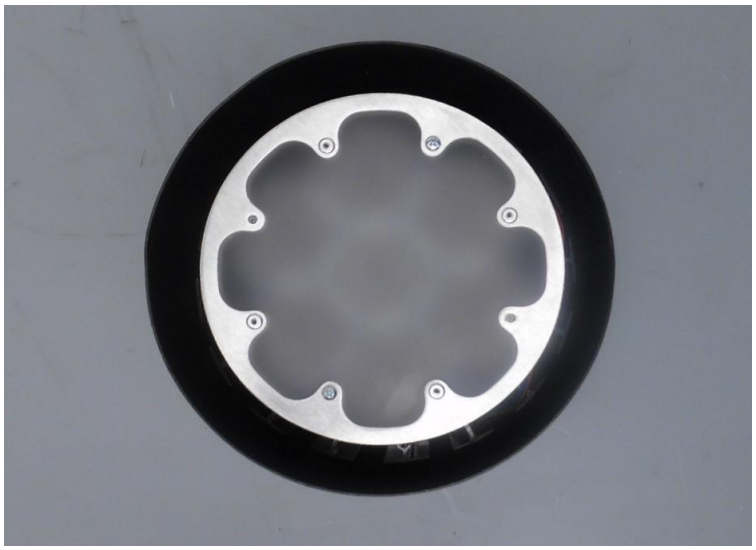


The isofootcandle values shown in the plot above are based on a mounting height of h = 8.0 feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution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

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Additional Pictures of Test Subject





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Test Distance	9.5 m
Ambient Temperature	25.3 °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.