



Spectra Lux

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada
Tel.: (514) 332-0082 Fax: (514) 332-3590 www.spectralux.ca



Lab Code: 200899-0

Moving Mirror Goniophotometer Test Report

Standard(s): IES LM-63, IES LM-79, ANSI C82.77

Customer ANDlight, 1951 Franklin St., Vancouver, British Columbia , Canada, V5L 0C7

General Information		Lamp Details: CY4462		Driver Details: CY2024	
DUT Lab ID	SRIS 3049-1	Seasoning	0 Hour	Type	LED Power Supply
Lamp Type	LED/SSL	Test Product	VIN-CW	Manufacturer	Shenzen Mailing Technologies
Current Mode	AC	Manufacturer	Shenzen Mailing Technologies	Catalog No.	Integrated LED Driver
Test Report	S2008184-R1	Lamp Catalog No.	(2) G9-A-45 LED Bulbs	Maximum Power	6 W
Test Date	18 August 2020	Drive Current	N.K.	Input Voltage	120.00 V
Report Date	23 November 2020	Nominal Color	3000 K	Operating Frequency	60 Hz
Ambient	24.3 °C	Burning Position	Junction Axial	Input Power	4.99 W

Luminaire Data

General Information		Optics		Aperture (feet)	
Manufacturer	ANDlight	Reflector	None	X	1.3750
Name	VINE	Housing	Formed Metal	Y	1.3750
Catalog No.	VIN-CW (Ceiling Mounted)	Lens	(2) Opalin Globes	Z	0.6562

Stabilization Time: 1 hour

Approved Signatory: Chrisnel Blot

Signature:



Luminaire Test Method

Precise installation and alignment of the luminaire to the rotation axis of the photometer is governed by a servomotor controlled via a microcontroller. A laser is used to validate the luminaire positioning. Before photometric measurements are taken, luminaire is operated long enough to reach stabilization and temperature equilibrium.

All movement commands issued to the photometer axes are mediated by the software to ensure the motion is within the limits of operation. The photometric detector used is a silicon detector corrected to closely match the spectral luminous efficiency photopic curve with a quality index less than 1.5%. Proper shielding is incorporated to the photometric test bench such that only the light from the unit under test is measured.

Luminous intensity measurements are performed at a distance great enough so that the inverse-square law applies. During each measurement the computer records the luminous intensity associated to the corresponding angles of radiation, as well as input electrical operational parameters and temperature measurements. Candela values are reported in IES format as per LM-63.

Equipment, reference standards are traceable to National Institute of Standards and Technology (NIST) and National Research Council of Canada (NRC).





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Electrical Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Power Supply	iRDC	CIF-3000A	974998	N.P.C.R.	N.P.C.R.
Input Power Meter	Yokogawa	WT210	27E116584	2020/07/22	2021/09/22
Output Power Meter	N/A	N/A	N/A	N.P.C.R.	N.P.C.R.

Photometric Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Photometer	N/A	N/A	N/A	N.P.C.R.	N.P.C.R.
Photodetector	INPHORA	IPR-PDET 19	110802	2019/09/05	2020/09/05

Environment Equipment

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Temperature Humidity Sensor	Omega	HH311	120504176	2020/07/16	2021/07/16

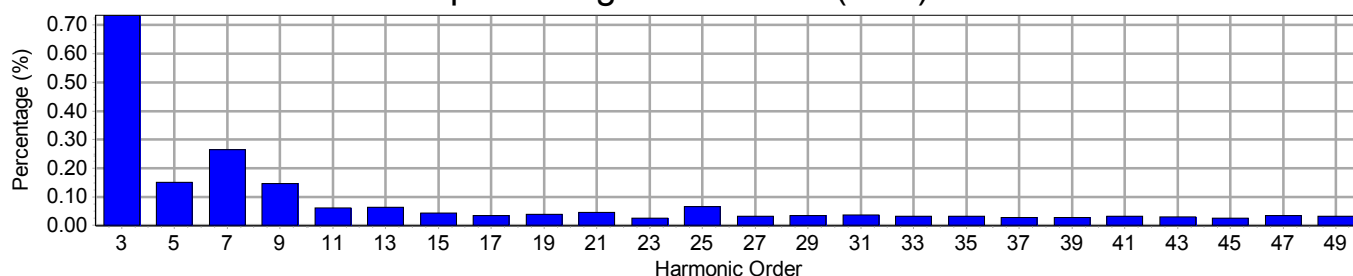


Electrical Measurements

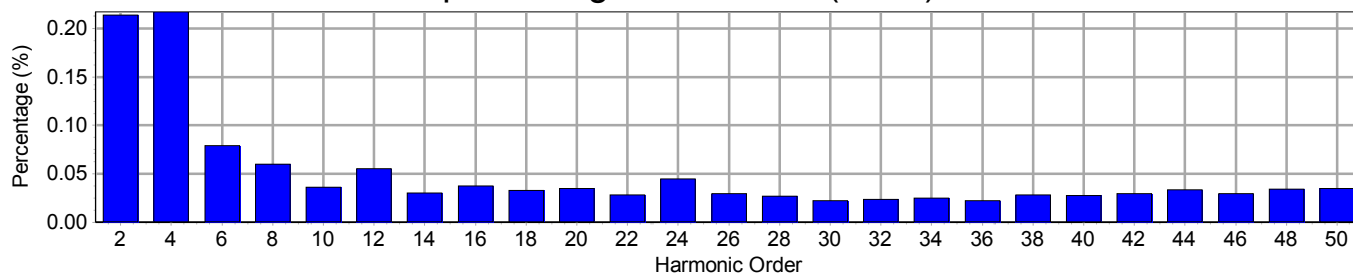
Input

Frequency	60 Hz	Active Power	4.99 W	THDV [ANSI]	0.90 %
Voltage	120.1 V(rms)	Apparent Power	5.30 VA	THDA [ANSI]	33.91 %
Current	0.0441 A(rms)	Power Factor	0.941	Max. Harmonic At	3rd order

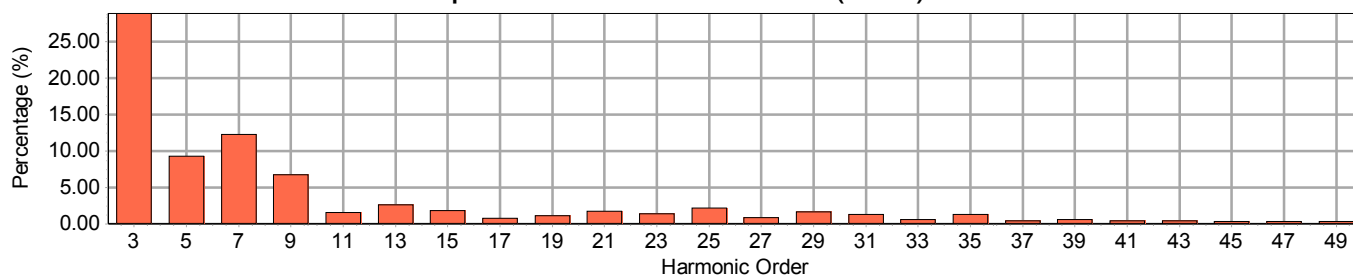
Input Voltage Harmonics (Odd)



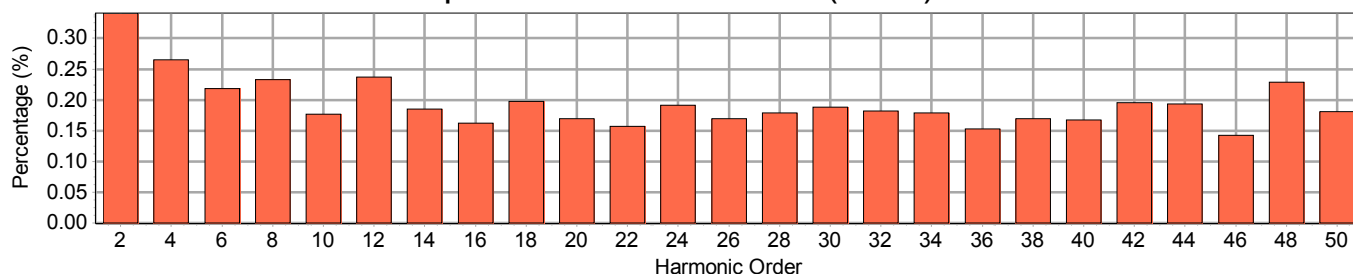
Input Voltage Harmonics (Even)



Input Current Harmonics (Odd)



Input Current Harmonics (Even)





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Harmonic Measurements

Odd Harmonics				Even Harmonics			
Harmonic Order	Frequency (HZ)	Voltage Harmonics (%)	Current Harmonics (%)	Harmonic Order	Frequency (HZ)	Voltage Harmonics (%)	Current Harmonics (%)
1	60	100.000	100.000	2	120	0.214	0.341
3	180	0.736	28.927	4	240	0.218	0.265
5	300	0.152	9.288	6	360	0.079	0.219
7	420	0.265	12.233	8	480	0.060	0.233
9	540	0.146	6.764	10	600	0.036	0.177
11	660	0.061	1.497	12	720	0.055	0.237
13	780	0.063	2.609	14	840	0.030	0.185
15	900	0.045	1.761	16	960	0.037	0.162
17	1020	0.035	0.720	18	1080	0.033	0.197
19	1140	0.038	1.099	20	1200	0.035	0.170
21	1260	0.046	1.701	22	1320	0.028	0.157
23	1380	0.026	1.353	24	1440	0.044	0.191
25	1500	0.067	2.190	26	1560	0.029	0.170
27	1620	0.032	0.877	28	1680	0.027	0.179
29	1740	0.034	1.634	30	1800	0.022	0.188
31	1860	0.036	1.291	32	1920	0.023	0.182
33	1980	0.032	0.601	34	2040	0.025	0.179
35	2100	0.031	1.237	36	2160	0.022	0.153
37	2220	0.027	0.393	38	2280	0.028	0.170
39	2340	0.028	0.571	40	2400	0.027	0.168
41	2460	0.033	0.365	42	2520	0.029	0.196
43	2580	0.029	0.412	44	2640	0.034	0.193
45	2700	0.026	0.335	46	2760	0.030	0.142
47	2820	0.034	0.313	48	2880	0.034	0.229
49	2940	0.032	0.298	50	3000	0.035	0.181



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Photometric Report: S2008184-R1

Prepared for: ANDlight · Test Date: 18 August 2020

Luminaire: VINE · Lumcat: VIN-CW (Ceiling Mounted)

Coefficients of Utilization - Zonal Cavity Method

RCR	RC				0.9				0.8				0.7				0.5			0.1			0
	RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
0		116	116	116	116	108	108	108	108	100	100	100	100	85	85	85	58	58	58				52
1		102	95	89	83	94	88	82	77	86	81	76	71	68	64	60	45	43	41				35
2		92	81	72	64	84	74	66	60	77	68	61	55	57	52	47	37	34	31				26
3		83	69	59	51	76	64	55	48	69	59	51	44	49	43	38	31	28	25				20
4		75	61	50	42	69	56	47	39	62	51	43	37	43	36	31	27	23	20				16
5		68	53	43	35	63	49	40	33	57	45	37	31	38	31	26	24	20	17				14
6		63	47	37	30	57	44	35	28	52	40	32	26	34	27	22	22	18	14				11
7		58	42	33	26	53	39	30	24	48	36	28	23	30	24	19	20	16	13				10
8		53	38	29	23	49	35	27	21	45	33	25	20	28	21	17	18	14	11				9
9		50	35	26	20	46	32	24	19	42	30	22	17	25	19	15	17	13	10				8
10		46	32	23	18	42	29	22	16	39	27	20	15	23	17	13	15	12	9				7

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0 - 10	3	0.78	0.78
10 - 20	8	2.32	2.32
20 - 30	14	3.81	3.81
30 - 40	19	5.21	5.21
40 - 50	23	6.49	6.49
50 - 60	27	7.59	7.59
60 - 70	30	8.44	8.44
70 - 80	31	8.84	8.84
80 - 90	32	8.88	8.88
90 - 120	91	25.53	25.53
90 - 130	116	32.54	32.54
90 - 150	152	42.75	42.75
90 - 180	170	47.62	47.62
0 - 180	356	100.00	100.00

Average Luminance (Cd/m²)

Angle	0 Degree	45 Degree	90 Degree
45.0	294	299	304
55.0	361	371	385
65.0	484	511	535
75.0	650	838	874
85.0	1410	2492	2640

Luminaire Luminous Flux: 356

Measured Input Power: 4.99 W

Total Luminaire Efficiency: N/A

Luminaire Luminous Efficacy: 71.3 lm/W

Luminaire Spacing Criterion (0 Degree): 1.5358

Luminaire Spacing Criterion (90 Degree): 1.5689

Category: Up and Down

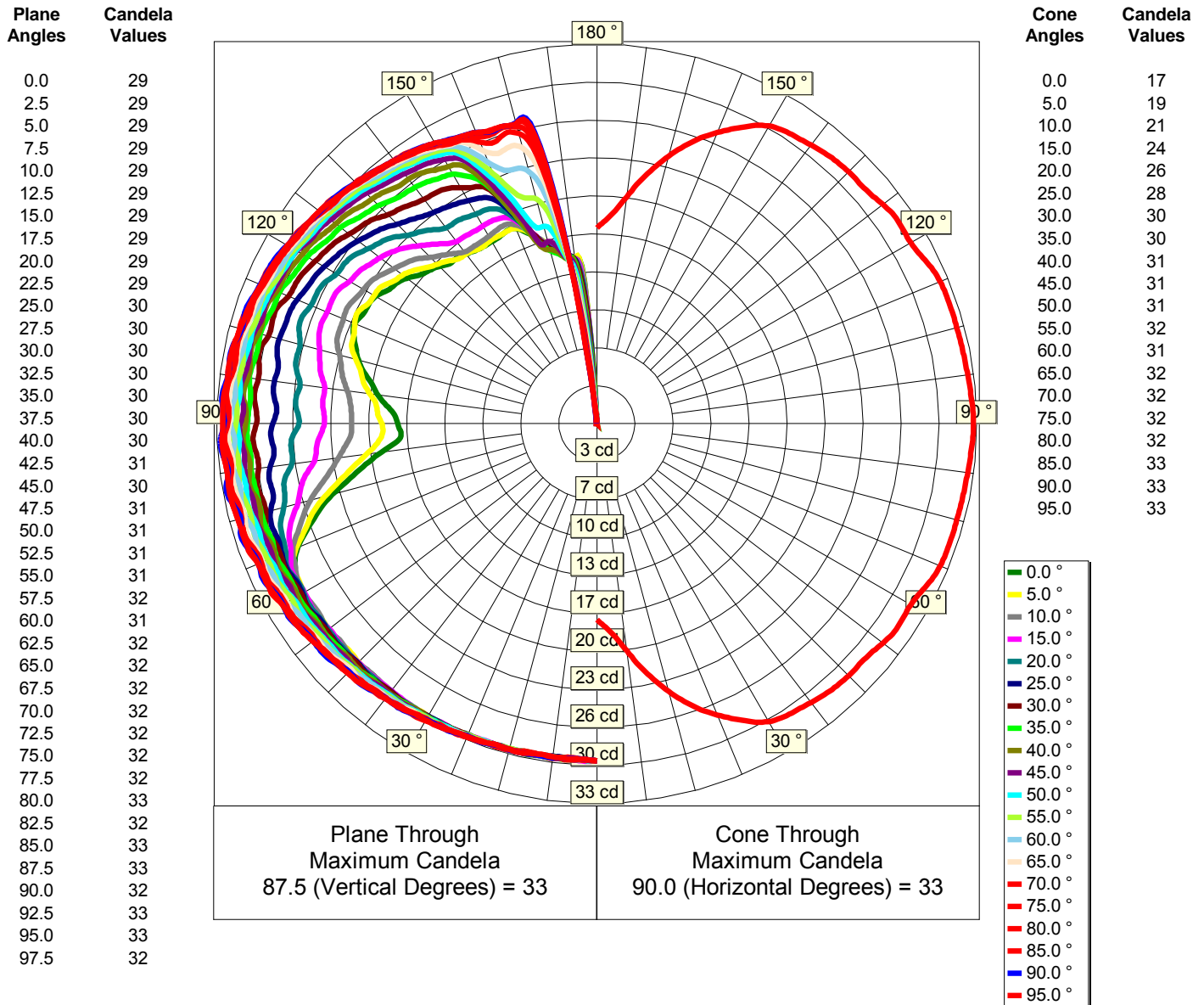


Photometric Report: S2008184-R1

Prepared for: ANDlight · Test Date: 18 August 2020

Luminaire: VINE · Lumcat: VIN-CW (Ceiling Mounted)

Luminous Intensity - Polar Curve for each Plane(1)



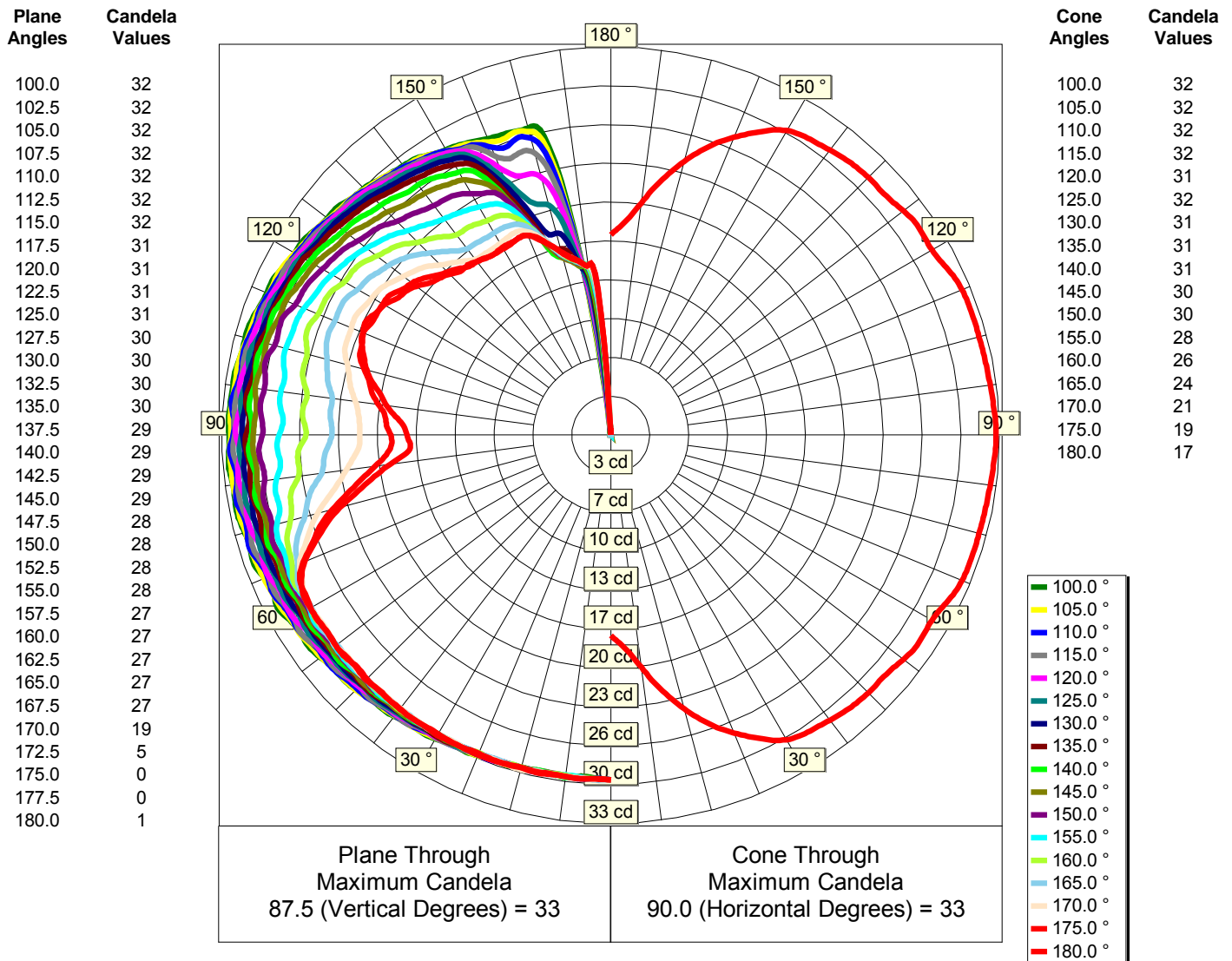


Photometric Report: S2008184-R1

Prepared for: ANDlight · Test Date: 18 August 2020

Luminaire: VINE · Lumcat: VIN-CW (Ceiling Mounted)

Luminous Intensity - Polar Curve for each Plane(2)





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IES File Headers

IESNA:LM-63
[ISSUEDATE] 18 August 2020
[TESTLAB] Spectra Lux
[TEST] S2008184-R1
[MANUFAC] ANDlight
[LUMCAT] VIN-CW (Ceiling Mounted)
[LUMINAIRE] VINE
[LAMP] (2) G9-A-45 LED Bulbs c/w Integrated LED Driver @ 120.00V
[_BURNING] Vertical Base Up (356 Luminaire Lumens)
[_REFLECTOR] None
[_LENS] (2) Opalin Globes
[_HOUSING] Formed Metal
[_NOMINAL COLOR] 3000 K
[_DRIVE CURRENT] N.K.

Candela Table

Lateral Angles

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
V e r t i c a l	0.0	29	29	29	29	29	29	29	29	29
	2.5	29	29	29	29	29	29	29	29	29
	5.0	29	29	29	29	29	29	29	29	29
	7.5	29	29	29	29	29	29	29	29	29
	10.0	29	29	29	29	29	29	29	29	29
	12.5	29	29	29	29	29	29	29	29	29
	15.0	29	29	29	29	29	29	29	29	29
	17.5	29	29	29	29	29	29	29	29	29
	20.0	29	29	29	29	29	29	29	29	29
	22.5	29	29	29	29	29	29	29	29	29
	25.0	29	29	29	29	29	29	29	29	29
	27.5	29	29	29	29	29	29	29	29	30
	30.0	29	29	29	29	29	29	29	29	30
	32.5	29	29	29	29	29	29	29	29	29
	35.0	29	29	29	29	29	29	29	30	30
	37.5	29	29	29	29	29	29	30	30	30
	40.0	29	29	29	29	29	29	29	30	30
	42.5	29	29	29	29	30	30	30	30	30
	45.0	29	29	29	29	29	29	30	30	30
	47.5	29	29	29	29	30	30	30	30	30
A n g l e s	50.0	29	29	29	29	30	30	30	30	30
	52.5	29	29	29	29	29	30	30	30	30
	55.0	29	29	29	29	29	30	30	30	30
	57.5	29	29	29	29	30	30	30	30	30
	60.0	29	29	29	29	29	30	30	30	30
	62.5	29	29	29	29	29	30	30	30	30
	65.0	29	29	29	29	30	30	30	30	31
	67.5	28	28	29	29	29	30	30	30	30
	70.0	27	27	28	28	29	29	30	30	30
	72.5	25	26	27	28	29	30	30	31	31
	75.0	24	24	26	27	28	29	30	30	31
	77.5	22	23	25	26	28	29	30	30	31
	80.0	20	21	23	26	28	29	30	31	31
	82.5	19	20	23	25	27	29	30	30	31
	85.0	17	19	22	24	27	28	30	30	31
	87.5	17	19	21	24	26	28	30	31	31
	90.0	17	19	21	24	26	28	30	30	31



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Lateral Angles

	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	
V e r t i c a l	92.5	18	19	21	24	26	28	30	30	31	31
	95.0	18	19	21	24	26	28	30	30	31	31
	97.5	19	20	22	24	26	28	30	30	31	31
	100.0	20	21	22	24	26	28	30	30	31	31
	102.5	21	21	23	25	27	28	30	30	31	31
	105.0	21	22	23	25	27	29	29	30	30	31
	107.5	22	22	24	25	27	28	30	30	30	30
	110.0	22	22	24	25	27	28	30	30	30	31
	112.5	23	23	24	25	27	28	29	30	30	30
	115.0	22	23	24	25	27	28	29	29	30	30
	117.5	22	22	24	25	27	28	29	29	30	30
	120.0	22	22	23	25	26	27	28	29	29	30
	122.5	22	22	23	25	26	27	28	29	29	30
	125.0	21	22	23	24	26	27	28	28	29	29
	127.5	21	21	22	24	25	26	27	28	29	29
	130.0	20	21	22	23	25	26	27	28	28	29
	132.5	20	20	21	23	24	25	26	27	28	29
	135.0	19	20	20	22	23	25	26	27	28	28
	137.5	19	19	20	21	23	24	25	26	27	28
A n g l e s	140.0	19	19	19	20	22	24	25	26	27	28
	142.5	19	19	19	20	21	23	25	26	27	27
	145.0	18	18	19	20	21	23	24	26	27	27
	147.5	18	18	19	20	21	23	24	25	26	27
	150.0	18	18	19	20	21	22	24	25	26	27
	152.5	18	18	19	20	21	22	23	24	25	26
	155.0	18	18	19	20	21	22	23	23	23	24
	157.5	18	18	19	19	20	20	21	21	21	21
	160.0	18	18	18	18	18	18	18	18	18	19
	162.5	17	17	17	17	17	17	17	16	16	16
	165.0	16	16	16	16	16	16	16	16	16	16
	167.5	15	15	15	15	15	15	15	15	15	16
	170.0	15	15	15	15	15	15	15	15	15	15
	172.5	15	15	14	14	14	14	14	14	14	13
	175.0	12	13	12	11	11	10	10	8	7	6
	177.5	1	1	1	1	1	1	1	1	1	1
	180.0	1	1	1	1	1	1	1	1	1	1



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Lateral Angles

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
V e r t i c a l	0.0	29	29	29	29	29	29	29	29	29
	2.5	29	29	29	29	29	29	29	29	29
	5.0	29	29	29	29	29	29	29	29	29
	7.5	29	29	29	29	29	29	29	29	29
	10.0	29	29	29	29	29	29	29	29	29
	12.5	29	29	29	29	29	29	29	29	29
	15.0	29	29	29	29	29	29	29	29	29
	17.5	29	29	29	29	29	29	29	29	29
	20.0	29	29	29	29	29	29	29	29	29
	22.5	29	29	29	29	29	29	29	29	29
	25.0	29	29	29	29	30	30	30	30	30
	27.5	29	30	29	30	30	29	30	30	30
	30.0	29	29	30	30	30	30	30	30	30
	32.5	30	30	30	30	30	30	30	30	30
	35.0	30	30	30	30	30	30	30	30	30
	37.5	30	30	30	30	30	30	30	30	30
	40.0	30	30	30	30	30	30	30	30	30
	42.5	30	30	30	30	30	30	31	31	31
	45.0	30	30	30	30	31	31	31	30	31
	47.5	30	30	30	30	31	31	31	31	31
A n g l e s	50.0	30	30	30	31	31	31	31	31	31
	52.5	30	30	31	31	31	31	31	31	31
	55.0	30	31	31	31	31	31	31	31	31
	57.5	30	31	31	31	31	31	31	32	31
	60.0	30	31	31	31	31	31	31	31	31
	62.5	31	31	31	31	32	32	32	32	32
	65.0	31	31	31	31	32	32	32	32	32
	67.5	31	31	31	31	32	32	32	32	32
	70.0	31	31	31	31	32	32	32	32	32
	72.5	31	31	31	32	32	32	32	32	32
	75.0	31	31	32	32	32	32	32	32	32
	77.5	31	31	32	32	32	32	32	32	32
	80.0	31	31	31	32	32	32	32	33	32
	82.5	31	31	32	32	32	32	32	32	32
	85.0	31	31	32	32	32	33	32	33	32
	87.5	31	32	31	32	32	32	33	33	33
	90.0	31	31	32	32	32	32	32	32	32
	92.5	31	31	32	32	32	32	32	33	32
	95.0	31	32	31	32	32	32	32	33	32
	97.5	31	31	32	32	32	32	32	32	32
	100.0	31	31	32	32	32	32	32	32	32
	102.5	31	31	31	32	32	32	32	32	32
	105.0	31	31	31	32	32	32	32	32	32
	107.5	31	31	31	31	32	32	32	32	32
	110.0	31	31	31	31	32	32	32	32	32
	112.5	31	31	31	31	31	32	32	32	32
	115.0	30	30	31	31	31	32	31	32	31
	117.5	30	31	31	31	31	31	31	31	31
	120.0	30	30	31	31	31	31	31	31	31
	122.5	30	30	30	30	31	31	31	31	31
	125.0	30	30	30	30	31	31	31	31	31
	127.5	30	30	30	30	30	30	30	30	30
	130.0	29	29	30	30	30	30	30	30	30
	132.5	29	29	29	30	30	30	30	30	30



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Lateral Angles

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
V e r t i c a l A n g l e s	135.0	29	29	29	29	29	30	30	30	30
	137.5	28	29	29	29	29	29	29	29	29
	140.0	28	28	29	29	29	29	29	29	29
	142.5	28	28	28	29	29	29	29	29	29
	145.0	28	28	28	28	28	29	29	29	29
	147.5	27	28	28	28	28	28	28	28	28
	150.0	27	27	28	28	28	28	28	28	28
	152.5	27	27	27	27	27	28	28	28	28
	155.0	25	25	26	27	27	27	28	28	28
	157.5	23	24	25	26	26	27	27	27	27
	160.0	20	22	23	25	26	27	27	27	27
	162.5	18	21	23	25	26	27	27	27	27
	165.0	18	20	23	25	26	27	27	27	27
	167.5	17	18	20	22	24	25	26	26	27
	170.0	15	15	15	16	17	17	18	18	19
	172.5	13	12	10	10	8	6	5	4	5
	175.0	4	3	2	1	0	0	0	0	0
	177.5	1	1	1	1	0	0	0	0	0
	180.0	1	1	1	1	1	1	1	1	1



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Lateral Angles

	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
V e r t i c a l	0.0	29	29	29	29	29	29	29	29	29
	2.5	29	29	29	29	29	29	29	29	29
	5.0	29	29	29	29	29	29	29	29	29
	7.5	29	29	29	29	29	29	29	29	29
	10.0	29	29	29	29	29	29	29	29	29
	12.5	29	29	29	29	29	29	29	29	29
	15.0	29	29	29	29	29	29	29	29	29
	17.5	29	29	29	29	29	29	29	29	29
	20.0	29	29	29	29	29	29	29	29	29
	22.5	29	29	29	29	29	29	29	29	29
	25.0	30	30	29	29	29	29	29	29	29
	27.5	29	30	30	30	30	29	30	29	29
	30.0	30	30	30	30	29	29	30	29	29
	32.5	30	30	30	30	30	30	29	29	29
	35.0	30	30	30	30	30	30	30	30	29
	37.5	30	30	30	30	30	30	30	30	30
	40.0	30	30	30	30	30	30	30	30	29
	42.5	30	30	30	30	30	30	30	30	30
	45.0	31	31	30	30	30	30	30	30	30
	47.5	31	31	31	30	30	30	30	30	30
A n g l e s	50.0	31	31	31	30	30	30	30	30	30
	52.5	31	31	31	31	30	30	30	30	30
	55.0	31	31	31	31	31	30	30	30	30
	57.5	31	31	31	31	31	30	30	30	30
	60.0	31	31	31	31	31	30	30	30	30
	62.5	32	32	31	31	31	31	30	30	30
	65.0	32	32	32	31	31	31	31	30	30
	67.5	32	32	32	31	31	31	30	30	30
	70.0	32	32	32	31	31	31	30	30	30
	72.5	32	32	32	32	31	31	31	31	30
	75.0	32	32	32	32	32	31	31	30	30
	77.5	32	32	32	32	32	31	31	30	30
	80.0	32	32	32	32	31	31	31	31	30
	82.5	32	32	32	32	32	31	31	30	30
	85.0	33	32	32	32	32	31	31	30	30
	87.5	32	32	32	32	31	32	31	31	30
	90.0	32	32	32	32	32	31	31	30	30
	92.5	32	32	32	32	32	31	31	31	30
	95.0	32	32	32	32	31	32	31	31	30
	97.5	32	32	32	32	32	31	31	31	30
	100.0	32	32	32	32	32	31	31	31	30
	102.5	32	32	32	32	31	31	31	31	30
	105.0	32	32	32	32	31	31	31	30	30
	107.5	32	32	32	31	31	31	30	30	30
	110.0	32	32	32	31	31	31	31	30	30
	112.5	32	31	31	31	31	31	30	30	30
	115.0	32	31	31	31	31	30	30	30	29
	117.5	31	31	31	31	31	30	30	30	29
	120.0	31	31	31	31	31	30	30	29	29
	122.5	31	31	31	30	30	30	30	29	29
	125.0	31	31	30	30	30	30	29	29	28
	127.5	30	30	30	30	30	30	29	29	28
	130.0	30	30	30	30	30	29	29	28	28
	132.5	30	30	30	30	29	29	29	28	27



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Lateral Angles

	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
V e r t i c a l A n g l e s	135.0	30	30	29	29	29	29	28	28	27
	137.5	29	29	29	29	29	28	28	27	26
	140.0	29	29	29	29	28	28	28	27	26
	142.5	29	29	29	28	28	28	27	27	26
	145.0	29	29	28	28	28	28	27	27	26
	147.5	28	28	28	28	28	27	27	26	25
	150.0	28	28	28	28	27	27	27	26	25
	152.5	28	28	27	27	27	27	26	25	24
	155.0	28	27	27	27	26	25	24	23	23
	157.5	27	27	26	26	25	24	21	21	21
	160.0	27	27	26	25	23	20	19	18	18
	162.5	27	27	26	25	23	18	16	16	16
	165.0	27	27	26	25	23	18	16	16	16
	167.5	26	25	24	22	20	17	16	15	15
	170.0	18	17	17	16	15	15	15	15	15
	172.5	5	6	8	10	12	13	13	14	14
	175.0	0	0	0	1	2	4	6	7	8
	177.5	0	0	0	1	1	1	1	1	1
	180.0	1	1	1	1	1	1	1	1	1



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Lateral Angles

	150.0	155.0	160.0	165.0	170.0	175.0	180.0
V e r t i c a l	0.0	29	29	29	29	29	29
	2.5	29	29	29	29	29	29
	5.0	29	29	29	29	29	29
	7.5	29	29	29	29	29	29
	10.0	29	29	29	29	29	29
	12.5	29	29	29	29	29	29
	15.0	29	29	29	29	29	29
	17.5	29	29	29	29	29	29
	20.0	29	29	29	29	29	29
	22.5	29	29	29	29	29	29
	25.0	29	29	29	29	29	29
	27.5	29	29	29	29	29	29
	30.0	29	29	29	29	29	29
	32.5	29	29	29	29	29	29
	35.0	29	29	29	29	29	29
	37.5	29	29	29	29	29	29
	40.0	29	29	29	29	29	29
	42.5	30	30	29	29	29	29
	45.0	29	29	29	29	29	29
	47.5	30	30	29	29	29	29
A n g l e s	50.0	30	30	29	29	29	29
	52.5	30	29	29	29	29	29
	55.0	30	29	29	29	29	29
	57.5	30	30	30	29	29	29
	60.0	30	29	29	29	29	29
	62.5	30	29	29	29	29	29
	65.0	30	30	30	29	29	29
	67.5	30	30	29	29	28	28
	70.0	30	29	29	28	27	27
	72.5	30	30	29	28	26	25
	75.0	30	29	28	27	26	24
	77.5	30	29	28	26	25	23
	80.0	30	29	28	26	23	21
	82.5	30	29	27	25	23	20
	85.0	30	28	27	24	22	19
	87.5	30	28	26	24	21	19
	90.0	30	28	26	24	21	19
	92.5	30	28	26	24	21	19
	95.0	30	28	26	24	21	19
	97.5	30	28	26	24	22	20
	100.0	30	28	26	24	22	21
	102.5	30	28	27	25	23	21
	105.0	29	29	27	25	23	22
	107.5	30	28	27	25	24	22
	110.0	30	28	27	25	24	22
	112.5	29	28	27	25	24	23
	115.0	29	28	27	25	24	23
	117.5	29	28	27	25	24	22
	120.0	28	27	26	25	23	22
	122.5	28	27	26	25	23	22
	125.0	28	27	26	24	23	22
	127.5	27	26	25	24	22	21
	130.0	27	26	25	23	22	21
	132.5	26	25	24	23	21	20



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Lateral Angles

	150.0	155.0	160.0	165.0	170.0	175.0	180.0	
V e r t i c a l	135.0	26	25	23	22	20	20	19
	137.5	25	24	23	21	20	19	19
	140.0	25	24	22	20	19	19	19
	142.5	25	23	21	20	19	19	19
	145.0	24	23	21	20	19	18	18
	147.5	24	23	21	20	19	18	18
	150.0	24	22	21	20	19	18	18
	152.5	23	22	21	20	19	18	18
	155.0	23	22	21	20	19	18	18
	157.5	21	20	20	19	19	18	18
	160.0	18	18	18	18	18	18	18
	162.5	17	17	17	17	17	17	17
	165.0	16	16	16	16	16	16	16
	167.5	15	15	15	15	15	15	15
	170.0	15	15	15	15	15	15	15
	172.5	14	14	14	14	14	15	15
	175.0	10	10	11	11	12	13	12
	177.5	1	1	1	1	1	1	1
	180.0	1	1	1	1	1	1	1
A n g l e s								