



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: CY4455		Driver Details: CY2029	
DUT Lab ID	SRIS 2831-2	Seasoning	0 Hour	Type	LED Power Supply
Lamp Type	LED/SSL	Test Product	BUT-90-P-30	Manufacturer	Meanwell
Current Mode	AC	Manufacturer	EPISTAR	Catalog No.	IDLV-45-12
Test Report	S2008174-R1	Lamp Catalog No.	OMNICHIP (320404-xx-300-12-4.4)	Maximum Power	45 W
Test Date	17 August 2020	Drive Current	30 mA	Input Voltage	120.00 V
Report Date	20 November 2020	Nominal Color	3000 K	Operating Frequency	60 Hz
Ambient	24.3 °C	Burning Position	Junction Axial	Input Power	26.48 W

Luminaire Data

General Information		Optics		Aperture (feet)	
Manufacturer	ANDlight	Reflector	None	X	-2.9583
Name	BUTTON	Housing	Aluminum Body c/w Nylon Rope	Y	-2.9583
Catalog No.	BUT-90-P-30	Lens	Opalin Acrylic Diffuser	Z	0.0000

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

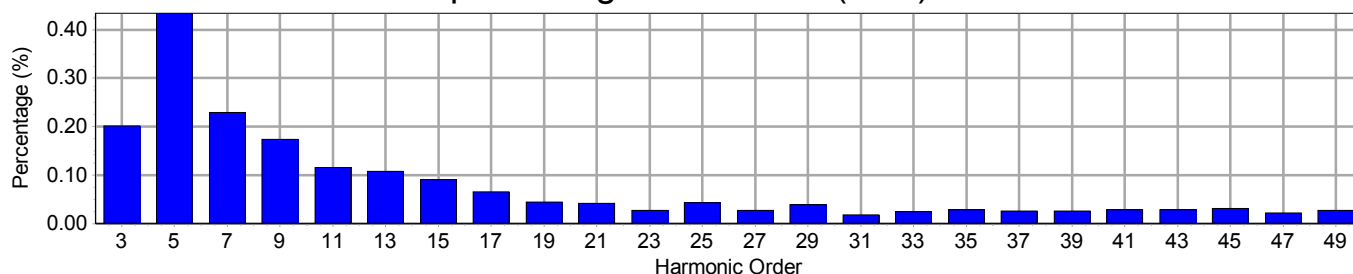


Electrical Measurements

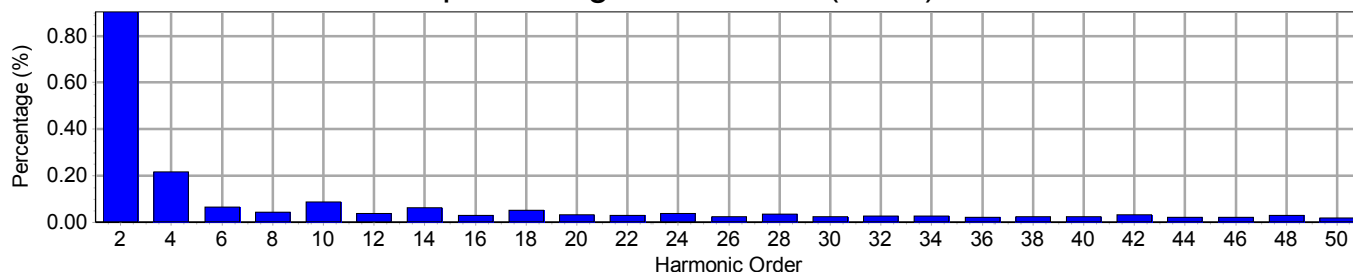
Input

Frequency	60 Hz	Active Power	26.48 W	THDV [ANSI]	1.12 %
Voltage	120.0 V(rms)	Apparent Power	27.11 VA	THDA [ANSI]	6.43 %
Current	0.2259 A(rms)	Power Factor	0.977	Max. Harmonic At	3rd order

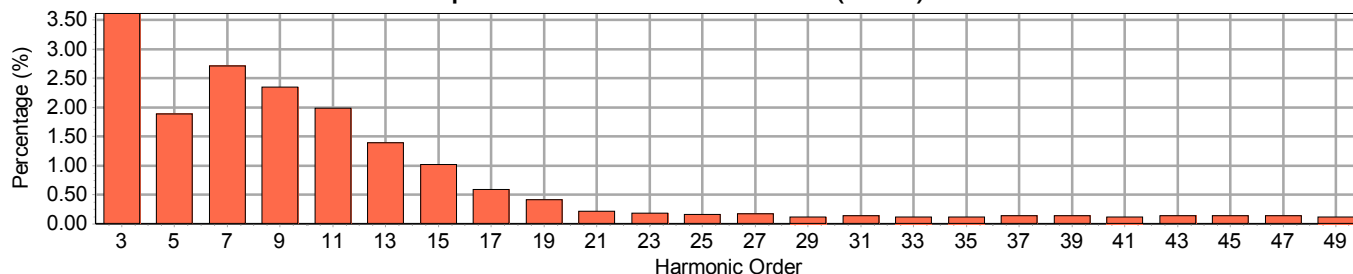
Input Voltage Harmonics (Odd)



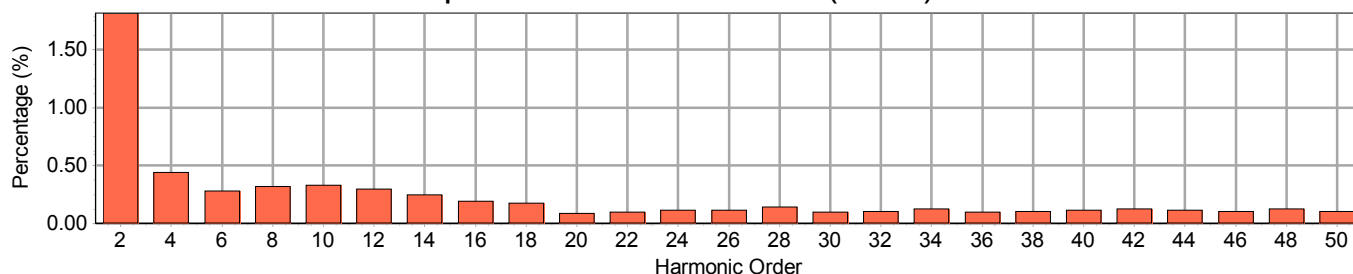
Input Voltage Harmonics (Even)



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	0.905	1.820
3	180	0.201	3.621	4	240	0.216	0.441
5	300	0.435	1.890	6	360	0.064	0.282
7	420	0.230	2.716	8	480	0.042	0.317
9	540	0.174	2.345	10	600	0.085	0.327
11	660	0.116	1.986	12	720	0.037	0.296
13	780	0.107	1.397	14	840	0.062	0.245
15	900	0.090	1.020	16	960	0.030	0.190
17	1020	0.065	0.591	18	1080	0.050	0.172
19	1140	0.044	0.413	20	1200	0.031	0.087
21	1260	0.041	0.214	22	1320	0.028	0.094
23	1380	0.027	0.185	24	1440	0.036	0.114
25	1500	0.043	0.164	26	1560	0.024	0.115
27	1620	0.027	0.173	28	1680	0.033	0.140
29	1740	0.039	0.119	30	1800	0.023	0.096
31	1860	0.018	0.133	32	1920	0.026	0.101
33	1980	0.025	0.120	34	2040	0.026	0.123
35	2100	0.029	0.110	36	2160	0.022	0.097
37	2220	0.026	0.133	38	2280	0.023	0.100
39	2340	0.026	0.141	40	2400	0.024	0.114
41	2460	0.028	0.112	42	2520	0.031	0.124
43	2580	0.028	0.133	44	2640	0.022	0.113
45	2700	0.031	0.132	46	2760	0.021	0.102
47	2820	0.022	0.134	48	2880	0.029	0.126
49	2940	0.027	0.121	50	3000	0.019	0.100



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Photometric Report: S2008174-R1

Prepared for: ANDlight · Test Date: 17 August 2020

Luminaire: BUTTON · Lumcat: BUT-90-P-30

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		121	121	121	121	118	118	118	118	114	114	114	114	108	108	108	96	96	96	96	96	96	94
1		111	106	101	97	107	103	98	95	104	100	96	92	94	91	88	85	83	81	85	83	81	78
2		101	92	84	78	98	89	83	77	94	87	81	75	82	77	73	74	71	68	74	71	68	65
3		92	80	72	65	89	78	70	64	86	76	69	63	72	66	61	65	61	57	65	61	57	55
4		84	71	62	54	81	69	60	54	78	67	59	53	64	57	52	58	53	49	58	53	49	46
5		77	63	54	47	75	62	53	46	72	60	52	46	57	50	44	52	47	42	52	47	42	40
6		71	57	47	40	69	55	46	40	66	54	46	40	52	44	39	47	42	37	47	42	37	35
7		66	51	42	36	64	50	41	35	62	49	41	35	47	40	34	43	37	33	43	37	33	31
8		61	47	38	32	59	46	37	31	57	45	37	31	43	36	30	39	34	29	39	34	29	27
9		57	43	34	28	55	42	34	28	53	41	33	28	39	32	27	36	31	26	36	31	26	25
10		53	39	31	26	52	39	31	25	50	38	30	25	36	30	25	34	28	24	34	28	24	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0 - 10	55	3.00	3.00
10 - 20	159	8.66	8.66
20 - 30	243	13.22	13.22
30 - 40	298	16.22	16.22
40 - 50	314	17.13	17.13
50 - 60	287	15.63	15.63
60 - 70	218	11.90	11.90
70 - 80	119	6.46	6.46
80 - 90	26	1.43	1.43
90 - 120	38	2.05	2.05
90 - 130	57	3.12	3.12
90 - 150	95	5.17	5.17
90 - 180	117	6.35	6.35
0 - 180	1835	100.00	100.00

Average Luminance (Cd/m²)

Angle	0 Degree	45 Degree	90 Degree
45.0	935	785	781
55.0	860	936	951
65.0	805	878	886
75.0	697	589	590
85.0	343	375	359

Luminaire Luminous Flux: 1835

Measured Input Power: 26.48 W

Total Luminaire Efficiency: N/A

Luminaire Luminous Efficacy: 69.3 lm/W

Luminaire Spacing Criterion (0 Degree): 1.2842

Luminaire Spacing Criterion (90 Degree): 1.1504

Category: Up and Down

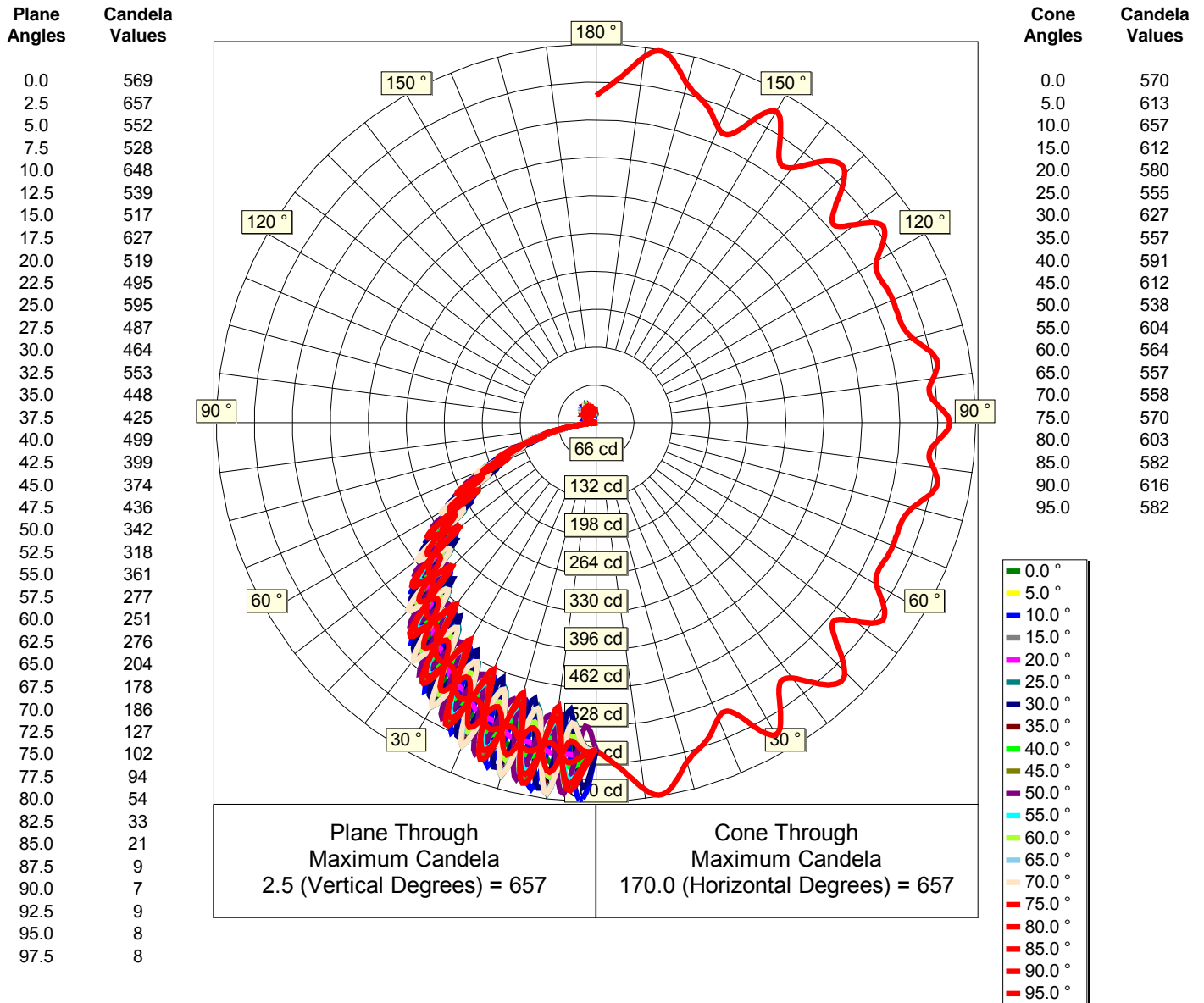


Photometric Report: S2008174-R1

Prepared for: ANDlight · Test Date: 17 August 2020

Luminaire: BUTTON · Lumcat: BUT-90-P-30

Luminous Intensity - Polar Curve for each Plane(1)



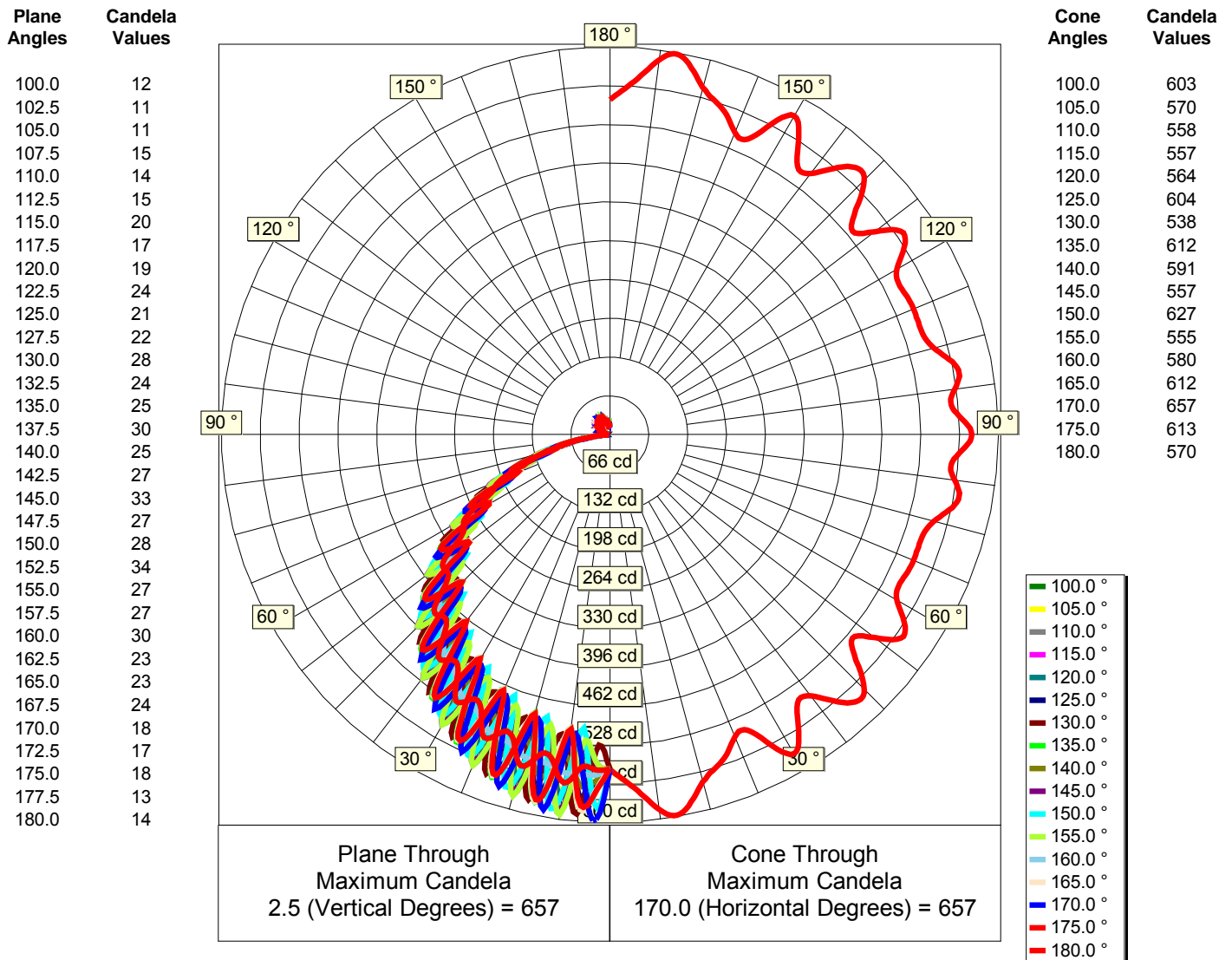


Photometric Report: S2008174-R1

Prepared for: ANDlight · Test Date: 17 August 2020

Luminaire: BUTTON · Lumcat: BUT-90-P-30

Luminous Intensity - Polar Curve for each Plane(2)





IES File Headers

IESNA:LM-63
 [ISSUEDATE] 17 August 2020
 [TESTLAB] Spectra Lux
 [TEST] S2008174-R1
 [MANUFAC] ANDlight
 [LUMCAT] BUT-90-P-30
 [LUMINAIRE] BUTTON
 [LAMP] EPISTAR OMNICHIP (320404-xx-300-12-4.4)LEDs c/w Meanwell Driver IDLV-45-12 @ 120.00V
 [_BURNING] Axial (1,835 Luminaire Lumens)
 [_REFLECTOR] None
 [_LENS] Opalin Acrylic Diffuser
 [_HOUSING] Aluminum Body c/w Nylon Rope
 [_NOMINAL COLOR] 3000 K
 [_DRIVE CURRENT] 30 mA

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	569	569	569	569	569	569	569	569	569
	2.5	570	613	657	612	580	555	627	557	591
	5.0	569	621	552	628	579	531	501	538	597
	7.5	598	505	528	503	580	652	612	644	554
	10.0	562	606	648	604	571	545	617	548	583
	12.5	559	608	539	614	567	522	491	527	584
	15.0	583	491	517	490	567	636	597	628	539
	17.5	544	588	627	585	554	527	597	531	566
	20.0	539	583	519	589	547	504	473	509	562
	22.5	558	471	495	469	542	608	573	601	517
	25.0	517	560	595	557	525	500	566	504	537
	27.5	508	549	487	555	516	476	446	481	530
	30.0	523	440	464	439	508	569	537	563	483
	32.5	480	520	553	518	488	464	526	467	501
	35.0	468	506	448	511	475	440	411	444	488
	37.5	477	401	425	400	463	520	492	514	441
	40.0	435	473	499	469	441	418	476	422	453
	42.5	419	451	399	456	425	395	368	398	436
	45.0	422	355	374	354	410	460	435	455	391
A n g l e s	47.5	379	413	436	411	385	365	415	368	396
	50.0	361	388	342	392	366	340	317	342	375
	52.5	358	302	318	299	347	389	370	385	331
	55.0	315	342	361	341	319	302	344	305	329
	57.5	293	316	277	317	297	276	257	279	304
	60.0	283	236	251	236	274	307	293	304	262
	62.5	241	265	276	262	244	231	264	234	253
	65.0	217	232	204	235	220	205	191	206	226
	67.5	200	170	178	167	194	218	208	216	186
	70.0	163	178	186	176	165	156	178	157	171
	72.5	137	147	127	147	138	130	121	130	143
	75.0	115	97	102	96	112	126	121	124	107
	77.5	83	92	94	90	84	80	91	80	87
	80.0	59	63	54	63	59	56	53	56	61
	82.5	38	32	33	32	37	42	41	42	36
	85.0	19	21	21	21	20	19	22	19	20
	87.5	10	11	9	10	10	10	9	9	10
	90.0	7	6	7	6	7	8	8	8	7



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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	7	8	9	9	8	7	8	8	8
	95.0	8	9	8	9	8	8	7	8	8
	97.5	9	8	8	8	9	10	10	10	9
	100.0	10	11	12	11	10	10	11	10	10
	102.5	11	12	11	12	11	11	10	10	11
	105.0	12	10	11	11	12	14	13	14	12
	107.5	13	14	15	15	14	13	14	13	14
	110.0	15	15	14	16	15	14	13	14	15
	112.5	16	14	15	14	16	18	17	18	15
	115.0	17	19	20	19	17	16	18	16	18
	117.5	18	19	17	20	18	17	16	18	19
	120.0	21	17	19	17	20	22	21	22	19
	122.5	20	23	24	23	21	19	22	20	22
	125.0	22	23	21	23	22	21	19	21	23
	127.5	24	21	22	20	23	26	25	26	23
	130.0	24	27	28	26	24	22	25	23	25
	132.5	25	27	24	27	25	24	21	24	26
	135.0	27	23	25	22	26	29	28	29	25
	137.5	27	30	30	29	26	24	28	25	28
	140.0	28	29	25	29	27	26	23	26	28
A n g l e s	142.5	30	25	27	24	28	31	30	31	27
	145.0	28	32	33	31	28	26	29	26	29
	147.5	29	31	27	30	29	27	25	27	29
	150.0	31	26	28	25	29	33	31	32	27
	152.5	29	33	34	32	29	27	31	27	30
	155.0	29	30	27	30	29	27	25	27	29
	157.5	29	25	27	24	28	32	31	31	27
	160.0	26	29	30	29	27	25	28	25	28
	162.5	25	26	23	27	25	24	22	24	26
	165.0	25	21	23	21	24	27	26	27	23



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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	569	569	569	569	569	569	569	569	569
	2.5	538	604	564	557	558	570	603	582	582
	5.0	648	613	553	535	533	560	620	592	592
	7.5	554	523	622	647	651	614	519	564	498
	10.0	531	596	555	549	549	562	595	575	608
	12.5	636	600	543	525	524	549	607	580	614
	15.0	540	510	608	631	635	599	506	551	486
	17.5	516	579	538	531	531	544	578	558	591
	20.0	613	577	523	507	505	529	584	559	592
	22.5	516	489	582	604	608	574	484	527	464
	25.0	492	551	511	504	505	517	551	531	563
	27.5	579	545	495	480	478	501	553	528	557
	30.0	484	458	546	566	570	538	454	496	436
	32.5	458	512	474	468	469	481	513	494	524
	35.0	534	502	457	442	442	462	509	486	513
	37.5	441	418	499	518	521	492	415	453	398
	40.0	415	464	428	423	424	435	466	447	477
	42.5	478	449	410	397	397	415	455	436	460
	45.0	390	370	442	459	462	436	367	401	353
	47.5	363	406	374	369	369	380	408	392	417
A n g l e s	50.0	412	386	353	343	342	358	392	376	395
	52.5	330	314	374	389	391	370	312	340	299
	55.0	303	338	310	306	307	317	340	326	348
	57.5	336	314	287	279	279	291	318	306	323
	60.0	261	248	296	308	310	293	247	270	237
	62.5	233	260	238	235	236	243	262	251	268
	65.0	249	233	213	207	208	217	236	227	239
	67.5	186	177	211	219	221	209	176	193	169
	70.0	158	176	161	159	159	164	178	169	182
	72.5	158	146	135	131	131	137	149	143	150
	75.0	108	102	122	126	128	121	102	111	97
	77.5	82	90	82	81	81	84	91	86	93
	80.0	69	63	58	56	57	59	64	61	64
	82.5	36	34	40	42	43	40	34	36	32
	85.0	19	21	18	18	18	18	20	18	20
	87.5	11	9	8	8	8	7	7	6	7
	90.0	6	6	7	6	6	5	4	3	3
	92.5	7	7	6	6	5	5	6	5	6
	95.0	8	8	7	6	6	7	7	6	6
	97.5	8	7	9	9	9	8	7	7	6
	100.0	9	10	9	8	8	8	9	8	9
	102.5	12	11	10	9	9	10	10	10	10
	105.0	11	11	12	13	13	12	10	10	9
	107.5	12	14	12	12	11	12	13	12	14
	110.0	16	15	13	13	13	13	14	14	14
	112.5	15	14	17	17	17	16	14	15	13
	115.0	16	18	16	16	15	16	18	17	18
	117.5	21	19	18	17	17	18	19	18	19
	120.0	19	18	21	22	22	21	17	19	17
	122.5	20	22	20	19	19	20	22	21	23
	125.0	25	23	21	21	21	21	23	22	23
	127.5	22	21	25	26	26	24	21	23	20
	130.0	23	26	23	22	22	23	26	24	27
	132.5	28	26	24	23	24	24	26	26	26



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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
135.0	24	24	28	29	29	27	23	26	22	26
137.5	25	28	25	25	25	26	28	27	29	27
140.0	30	28	26	26	26	27	28	28	29	28
142.5	26	25	30	31	31	30	25	27	23	27
145.0	27	30	26	26	26	27	30	28	31	28
147.5	32	29	28	27	27	28	29	28	29	28
150.0	27	26	31	32	32	30	25	27	24	27
152.5	28	31	27	26	26	27	30	29	31	29
155.0	32	29	28	27	27	28	30	29	30	29
157.5	26	25	30	31	31	29	25	27	24	27
160.0	26	29	25	25	25	26	29	27	29	27
162.5	29	26	25	24	24	25	27	26	27	26
165.0	22	22	26	27	27	25	22	24	21	24
167.5	21	24	21	21	20	21	24	22	24	22
170.0	23	21	20	19	20	20	21	21	22	21
172.5	18	17	20	21	21	20	17	19	17	19
175.0	16	17	15	15	15	16	17	16	18	16
177.5	15	14	14	13	14	14	14	14	14	14
180.0	14	14	14	14	14	14	14	14	14	14

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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	569	569	569	569	569	569	569	569	569
	2.5	603	570	558	557	564	604	538	612	557
	5.0	620	560	533	535	553	613	648	628	538
	7.5	519	614	651	647	622	523	554	503	554
	10.0	595	562	549	549	555	596	531	604	583
	12.5	607	549	524	525	543	600	636	615	584
	15.0	506	599	635	631	608	510	540	490	539
	17.5	578	544	531	531	538	579	516	586	566
	20.0	584	529	505	507	523	577	613	592	562
	22.5	484	574	608	604	582	489	516	468	517
	25.0	551	517	505	504	511	551	492	558	537
	27.5	553	501	478	480	495	545	579	558	530
	30.0	454	538	570	566	546	458	484	438	483
	32.5	513	481	469	468	474	512	458	520	501
	35.0	509	462	442	442	457	502	534	514	488
	37.5	415	492	521	518	499	418	441	401	441
	40.0	466	435	424	423	428	464	415	471	453
	42.5	455	415	397	397	410	449	478	459	436
	45.0	367	436	462	459	442	370	390	354	391
	47.5	408	380	369	369	374	406	363	412	396
A n g l e s	50.0	392	358	342	343	353	386	412	395	375
	52.5	312	370	391	389	374	314	330	300	331
	55.0	340	317	307	306	310	338	303	343	329
	57.5	318	291	279	279	287	314	336	320	304
	60.0	247	293	310	308	296	248	261	237	262
	62.5	262	243	236	235	238	260	233	263	253
	65.0	236	217	208	207	213	233	249	237	226
	67.5	176	209	221	219	211	177	186	169	186
	70.0	178	164	159	159	161	176	158	178	171
	72.5	149	137	131	131	135	146	158	149	143
	75.0	102	121	128	126	122	102	108	97	107
	77.5	91	84	81	81	82	90	82	91	87
	80.0	64	59	57	56	58	63	69	64	61
	82.5	34	40	43	42	40	34	36	33	36
	85.0	20	18	18	18	18	21	19	21	20
	87.5	7	7	8	8	8	9	11	10	10
	90.0	4	5	6	6	7	6	6	6	7
	92.5	6	5	5	6	6	7	7	8	8
	95.0	7	7	6	6	7	8	8	8	8
	97.5	7	8	9	9	9	7	8	8	9
	100.0	9	8	8	8	9	10	9	11	10
	102.5	10	10	9	9	10	11	12	11	11
	105.0	10	12	13	13	12	11	11	11	12
	107.5	13	12	11	12	12	14	12	14	14
	110.0	14	13	13	13	13	15	16	16	15
	112.5	14	16	17	17	17	14	15	14	15
	115.0	18	16	15	16	16	18	16	19	18
	117.5	19	18	17	17	18	19	21	20	19
	120.0	17	21	22	22	21	18	19	17	19
	122.5	22	20	19	19	20	22	20	23	22
	125.0	23	21	21	21	21	23	25	24	23
	127.5	21	24	26	26	25	21	22	20	23
	130.0	26	23	22	22	23	26	23	26	25
	132.5	26	24	24	23	24	26	28	27	26



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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
135.0	23	27	29	29	28	24	24	22	25	29
137.5	28	26	25	25	25	28	25	29	28	25
140.0	28	27	26	26	26	28	30	29	28	26
142.5	25	30	31	31	30	25	26	24	27	31
145.0	30	27	26	26	26	30	27	31	29	26
147.5	29	28	27	27	28	29	32	30	29	27
150.0	25	30	32	32	31	26	27	25	27	32
152.5	30	27	26	26	27	31	28	31	30	27
155.0	30	28	27	27	28	29	32	30	29	27
157.5	25	29	31	31	30	25	26	24	27	31
160.0	29	26	25	25	25	29	26	29	28	25
162.5	27	25	24	24	25	26	29	27	26	24
165.0	22	25	27	27	26	22	22	21	23	27
167.5	24	21	20	21	21	24	21	24	23	20
170.0	21	20	20	19	20	21	23	22	21	20
172.5	17	20	21	21	20	17	18	16	18	21
175.0	17	16	15	15	15	17	16	18	17	15
177.5	14	14	14	13	14	14	15	14	14	13
180.0	14	14	14	14	14	14	14	14	14	14

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Lab Code: 200899-0

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	569	569	569	569	569	569
	2.5	627	555	580	612	613	570
	5.0	501	531	579	628	552	621
	7.5	612	652	580	503	528	505
	10.0	617	545	571	604	648	606
	12.5	491	522	567	614	539	608
	15.0	597	636	567	490	517	491
	17.5	597	527	554	585	627	588
	20.0	473	504	547	589	519	583
	22.5	573	608	542	469	495	471
	25.0	566	500	525	557	595	560
	27.5	446	476	516	555	487	549
	30.0	537	569	508	439	464	440
	32.5	526	464	488	518	553	520
	35.0	411	440	475	511	448	506
	37.5	492	520	463	400	425	401
	40.0	476	418	441	469	499	473
	42.5	368	395	425	456	399	451
	45.0	435	460	410	354	374	355
	47.5	415	365	385	411	436	413
A n g l e s	50.0	317	340	366	392	342	388
	52.5	370	389	347	299	318	302
	55.0	344	302	319	341	361	342
	57.5	257	276	297	317	277	316
	60.0	293	307	274	236	251	236
	62.5	264	231	244	262	276	265
	65.0	191	205	220	235	204	232
	67.5	208	218	194	167	178	170
	70.0	178	156	165	176	186	178
	72.5	121	130	138	147	127	147
	75.0	121	126	112	96	102	97
	77.5	91	80	84	90	94	92
	80.0	53	56	59	63	54	63
	82.5	41	42	37	32	33	32
	85.0	22	19	20	21	21	21
	87.5	9	10	10	10	9	11
	90.0	8	8	7	6	7	6
	92.5	8	7	8	9	9	8
	95.0	7	8	8	9	8	9
	97.5	10	10	9	8	8	8
	100.0	11	10	10	11	12	11
	102.5	10	11	11	12	11	12
	105.0	13	14	12	11	11	10
	107.5	14	13	14	15	15	14
	110.0	13	14	15	16	14	15
	112.5	17	18	16	14	15	14
	115.0	18	16	17	19	20	19
	117.5	16	17	18	20	17	19
	120.0	21	22	20	17	19	17
	122.5	22	19	21	23	24	23
	125.0	19	21	22	23	21	23
	127.5	25	26	23	20	22	21
	130.0	25	22	24	26	28	27
	132.5	21	24	25	27	24	27



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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	28	29	26	22	25	23	27
	137.5	28	24	26	29	30	30	27
	140.0	23	26	27	29	25	29	28
	142.5	30	31	28	24	27	25	30
	145.0	29	26	28	31	33	32	28
	147.5	25	27	29	30	27	31	29
	150.0	31	33	29	25	28	26	31
	152.5	31	27	29	32	34	33	29
	155.0	25	27	29	30	27	30	29
	157.5	31	32	28	24	27	25	29
	160.0	28	25	27	29	30	29	26
	162.5	22	24	25	27	23	26	25
	165.0	26	27	24	21	23	21	25
	167.5	23	20	22	24	24	24	21
	170.0	17	19	20	21	18	21	20
	172.5	20	21	18	16	17	16	19
	175.0	17	15	16	17	18	17	15
	177.5	12	14	14	15	13	15	14
	180.0	14	14	14	14	14	14	14
A n g l e s								