

Report of Test

LLIA001065-001A

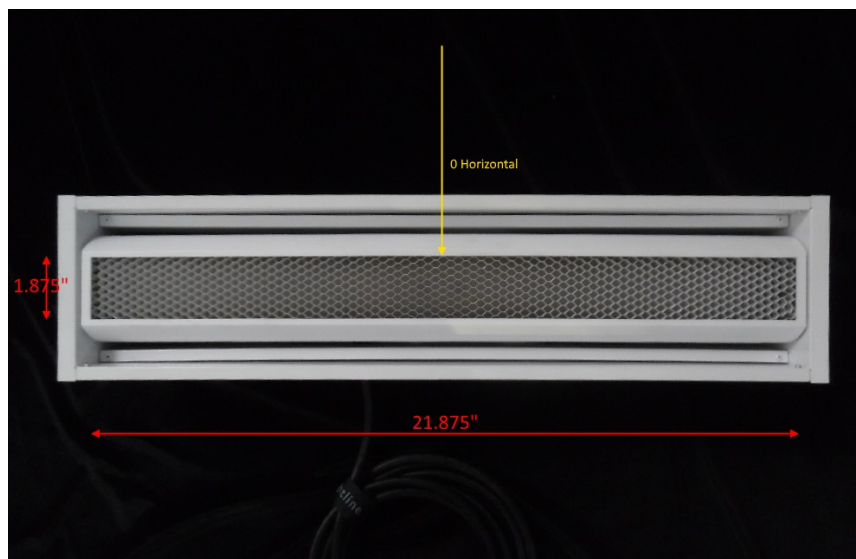
Catalog Number: FLXT1-A35-S-I, Rev A

Recessed mounted, formed white enamel steel housing, extruded aluminum adjustable inner housing, frosted plastic insert above white plastic honeycomb louver and plastic outer trim.

120 white LEDs, two Brightline LED strips with 60 LEDs each.

One Philips Advance XI040C110V054BST1 LED driver

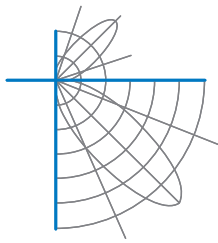
120.0Vac, 60.00Hz, 0.2571A, 30.61W, 0.993PF, 9.2%THD(i)



Performance Summary

Total Light Output	818 lm
Luminaire Power	30.6 W
Luminous Efficacy	26.7 lm/W

PREPARED FOR : Brightline L.P., 580 Mayer Street, Bridgeville, PA 15017, USA



Test Report No. LLIA001065-001A

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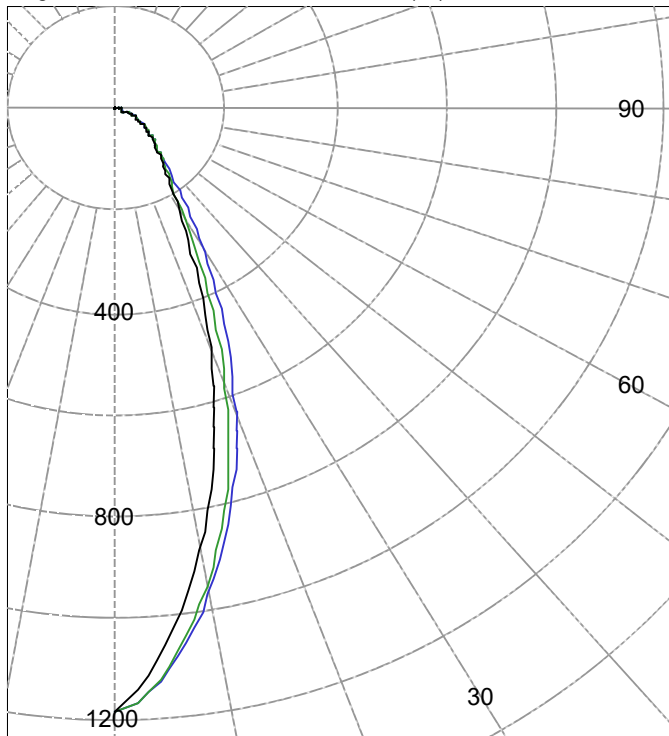
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120.0Vac, 60.00Hz, 0.2571A, 30.61W, 0.993PF, 9.2%THD(i)

Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1181	1181	1181	1181	1181	
5.0	1057	1068	1100	1078	1107	98
10.0	882	899	951	941	970	
15.0	689	710	776	783	809	208
20.0	501	518	585	615	634	
25.0	343	351	400	448	468	184
30.0	232	232	255	297	324	
35.0	167	168	174	179	213	115
40.0	128	131	136	132	140	
45.0	100	104	107	105	105	81
50.0	80	83	86	85	85	
55.0	65	66	69	69	69	61
60.0	52	53	55	55	56	
65.0	40	41	43	44	44	42
70.0	30	30	32	33	34	
75.0	20	20	22	23	24	23
80.0	11	11	12	14	14	
85.0	3	4	4	5	6	5
90.0	0	0	0	0	0	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	5307	5677	5563
55.0	4214	4481	4532
65.0	3543	3775	3916
75.0	2859	3151	3430
85.0	1486	1726	2462

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	490	N / A	59.9
0-40	605	N / A	74.0
0-60	747	N / A	91.4
0-90	818	N / A	100.0
40-90	213	N / A	26.0
60-90	70	N / A	8.6
90-180	0	N / A	0.0
0-180	818	N / A	100.0

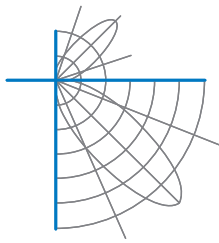
Total Light Output = 818 lm

Spacing Criterion: 0-180 0.6
Spacing Criterion: 90-270 0.7

Signed:

Authorized Signatory

Date of test 27-Dec-2018
Date of report 2-Jan-2019



Test Report No. LLIA001065-001A

Catalog Number: FLXT1-A35-S-I, Rev A

Recessed mounted, formed white enamel steel housing, extruded aluminum adjustable inner housing, frosted plastic insert above white plastic honeycomb louver and plastic outer trim.

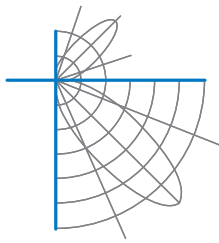
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One Philips Advance XI040C110V054BST1 LED driver

120.0Vac, 60.00Hz, 0.2571A, 30.61W, 0.993PF, 9.2%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1181	1181	1181	1181	1181
2.5	1132	1139	1160	1133	1161
5.0	1057	1068	1100	1078	1107
7.5	973	987	1029	1012	1042
10.0	882	899	951	941	970
12.5	787	806	866	864	892
15.0	689	710	776	783	809
17.5	592	612	681	700	722
20.0	501	518	585	615	634
22.5	416	430	491	531	549
25.0	343	351	400	448	468
27.5	282	284	320	370	392
30.0	232	232	255	297	324
32.5	192	195	205	233	264
35.0	167	168	174	179	213
37.5	146	148	154	149	172
40.0	128	131	136	132	140
42.5	113	116	120	118	119
45.0	100	104	107	105	105
47.5	89	92	96	94	94
50.0	80	83	86	85	85
52.5	72	74	77	76	77
55.0	65	66	69	69	69
57.5	58	59	61	62	62
60.0	52	53	55	55	56
62.5	46	47	48	49	50
65.0	40	41	43	44	44
67.5	35	35	37	38	39
70.0	30	30	32	33	34
72.5	25	25	27	28	29
75.0	20	20	22	23	24
77.5	15	16	17	18	19
80.0	11	11	12	14	14
82.5	7	7	8	9	10
85.0	3	4	4	5	6
87.5	2	2	2	2	2
90.0	0	0	0	0	0



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Recessed mounted, formed white enamel steel housing, extruded aluminum adjustable inner housing, frosted plastic insert above white plastic honeycomb louver and plastic outer trim.

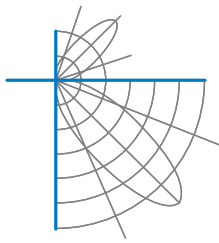
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120.0Vac, 60.00Hz, 0.2571A, 30.61W, 0.993PF, 9.2%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	0	0	0	0
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0
135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0



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Coefficients Of Utilization - Zonal Cavity Method

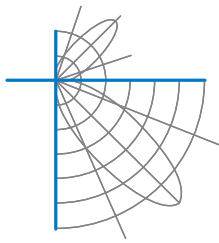
Effective Floor Cavity Reflectance 0.20

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58
7	79	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	56	54
8	75	64	57	53	73	63	57	53	62	57	53	61	56	52	60	56	52	51
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	46	54	50	46	45

For absolute test reports, CUs are expressed as a percentage of total lumen 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)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	32.8	3.37	3.99
8.0	18.4	4.50	5.32
10.0	11.8	5.62	6.65
12.0	8.2	6.75	7.98
14.0	6.0	7.87	9.31
16.0	4.6	9.00	10.64



Test Report No. LLIA001065-001A

Catalog Number: FLXT1-A35-S-I, Rev A

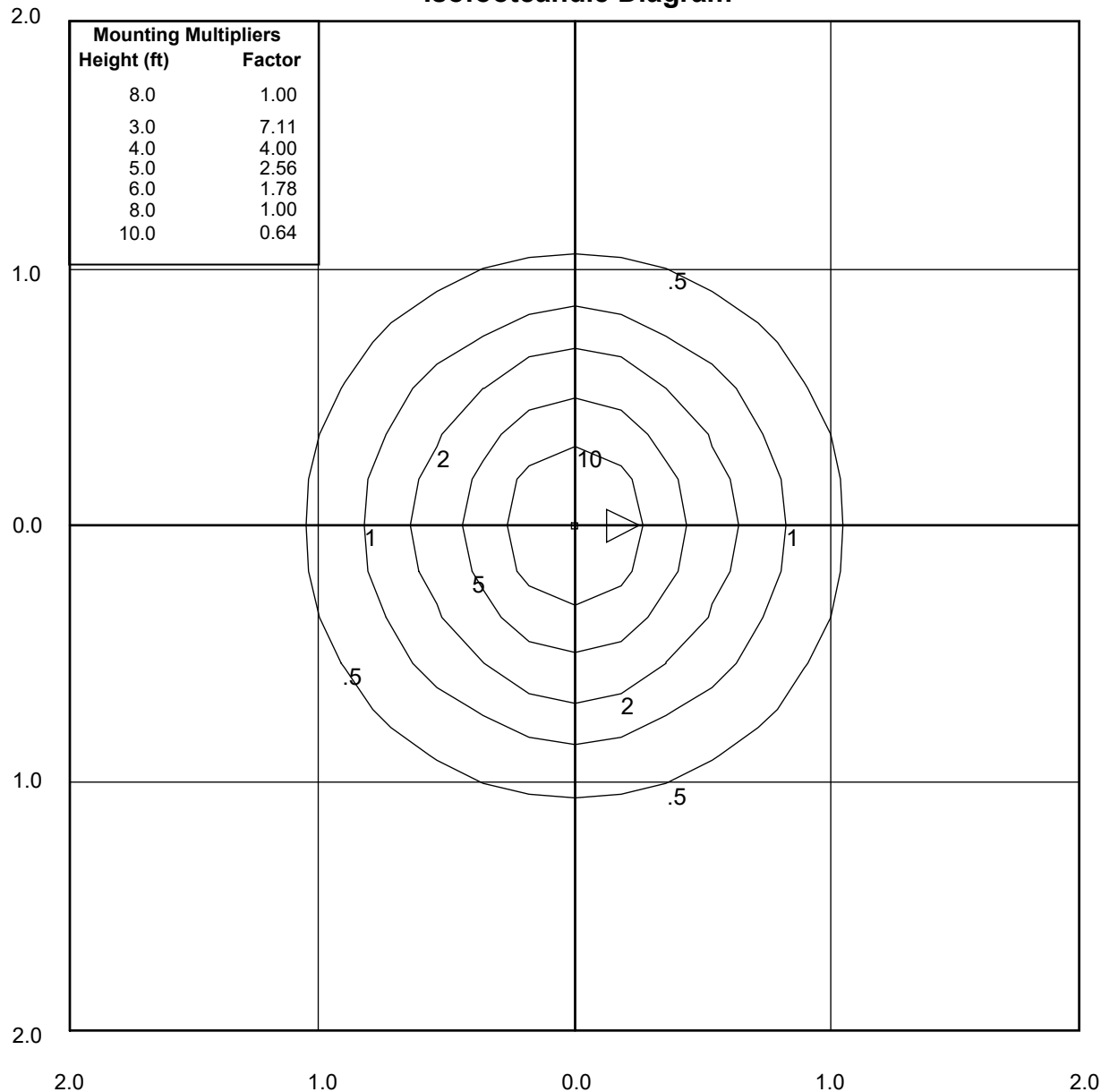
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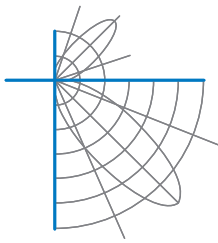
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120.0Vac, 60.00Hz, 0.2571A, 30.61W, 0.993PF, 9.2%THD(i)

Isofootcandle Diagram



Note: The isofootcandle levels are based on a mounting height of H = 8.0 feet. Grid values show multiples of mounting height. The isofootcandle contour units are expressed as footcandles. The left and right sides of photometric data have been averaged.



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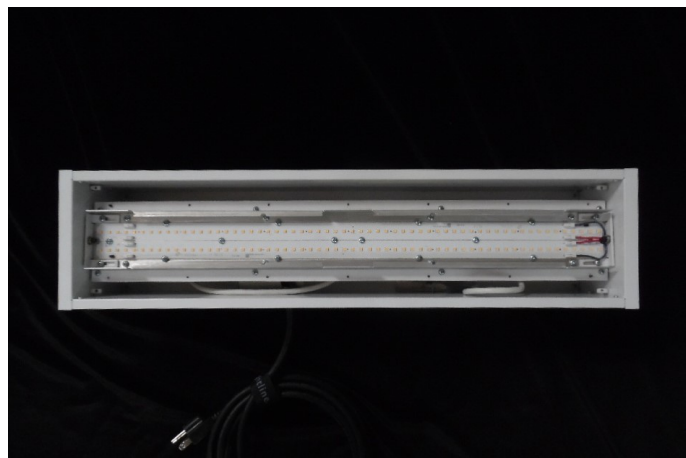
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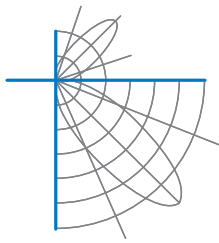
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Test Distance 9.5 m
Test Temperature 24.8 °C

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 publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

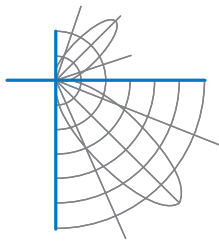
Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE 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.



Report of Test

LLIA001065-001B

Integrating Sphere Report

Catalog Number: FLXT1-A35-S-I, Rev A

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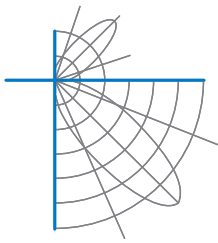
Performance Summary

Voltage	120.0 Vac
Current	0.2572 A
Power	30.62 W
Frequency	59.99 Hz
Power Factor	0.993
Current THD	9.1 %

Total Luminous Flux	816.2 lm
Efficacy	26.7 lm/W
Chromaticity (x,y)	(0.4026, 0.3837)
(u',v')	(0.2369, 0.5079)
Duv	-0.0025
CCT	3502 K
CRI (Ra)	97
R9	91
TM-30: Rf	94
TM-30: Rg	103

Prepared For:
Brightline L.P.
580 Mayer Street
Suite 7
Bridgeville, PA 15017, USA

Test date: 12/27/2018
Report date: 01/02/2019



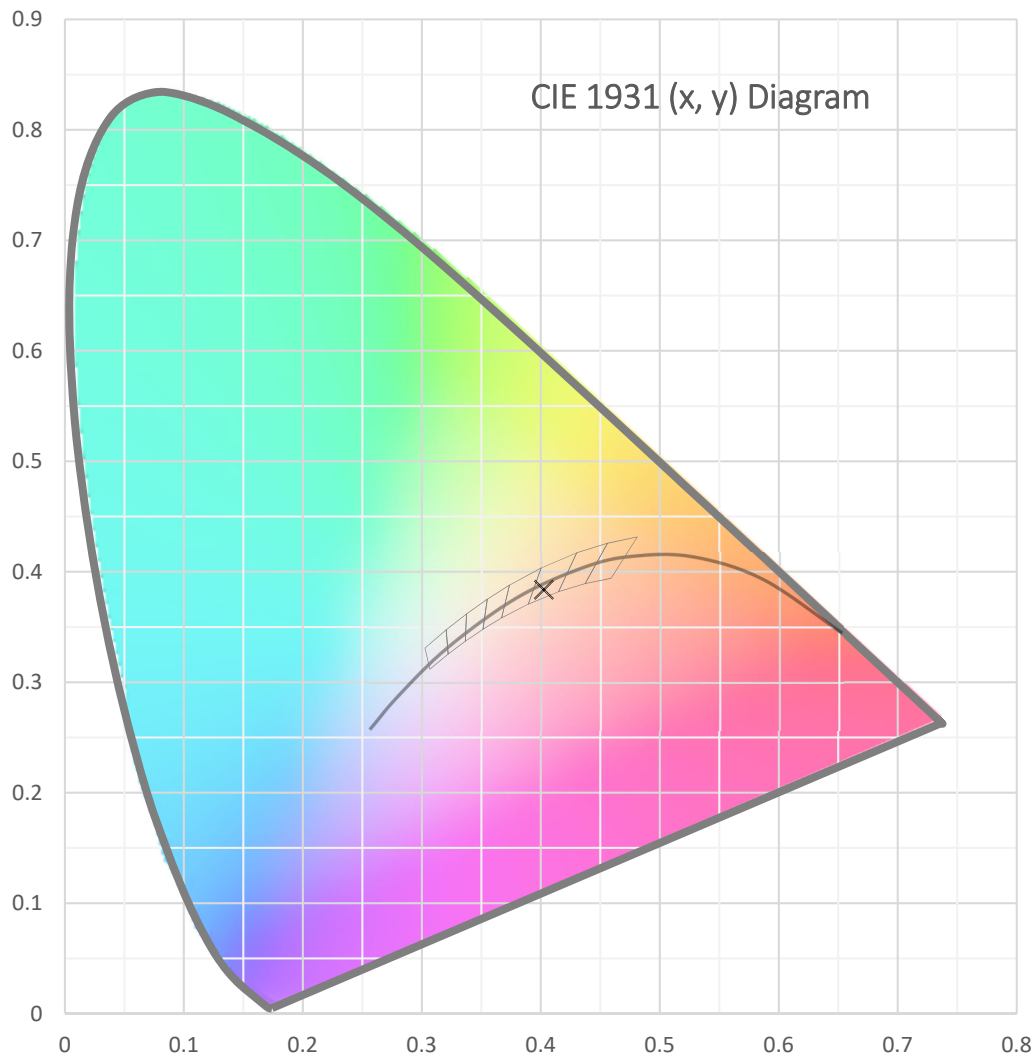
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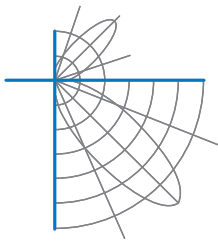
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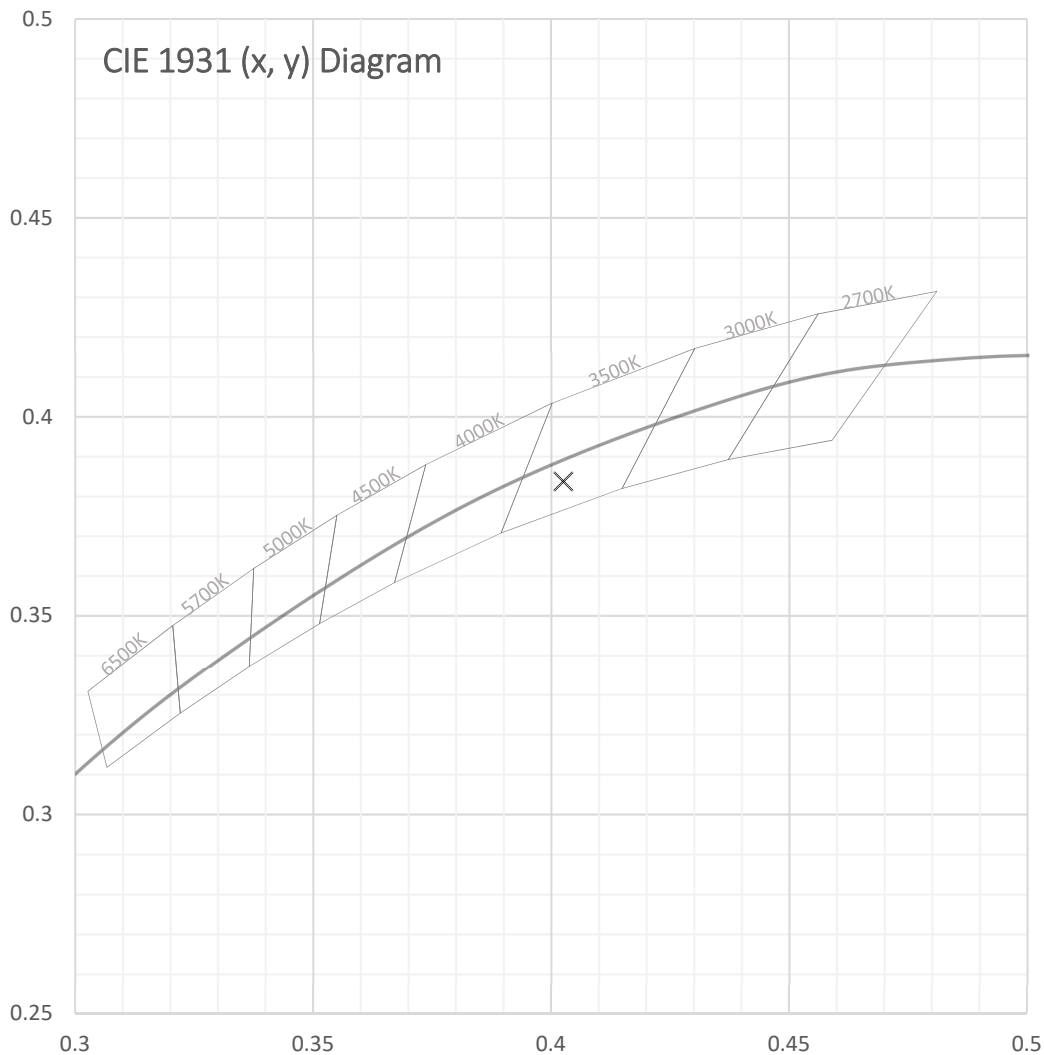
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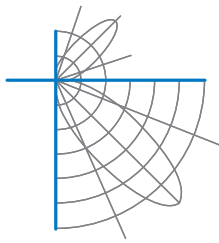
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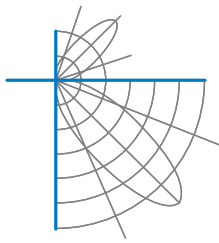
One Philips Advance XI040C110V054BST1 LED driver

Spectral Data

Total Radiant Flux	2.977 W
Total Luminous Flux	816.2 Lm
Chromaticity CIE 1931 (x, y)	(0.4026, 0.3837)
Chromaticity CIE 1976 (u', v')	(0.2369, 0.5079)
Correlated Color Temperature (CCT)	3502 K
Color Rendering Index (Ra)	97
R1	99
R2	98
R3	97
R4	96
R5	99
R6	97
R7	96
R8	96
R9	91
R10	97
R11	95
R12	90
R13	99
R14	98
TM-30: Rf	94
TM-30: Rg	103
Distance from Planckian Locus (Duv)	-0.0025
Scotopic/Photopic Ratio *	1.666

Electrical Data

Voltage	120.0 Vac
Current	0.2572 A
Power	30.62 W
Frequency	59.99 Hz
Power Factor	0.993
Current THD	9.1 %



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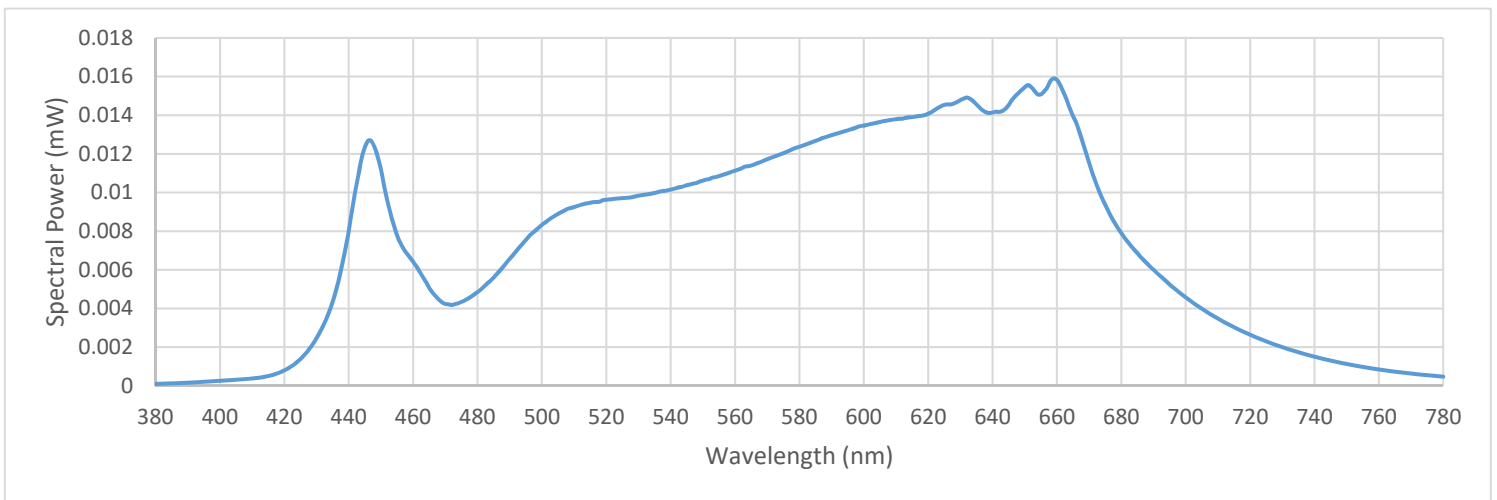
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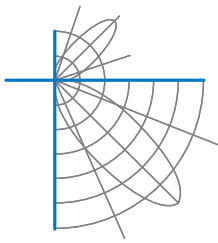
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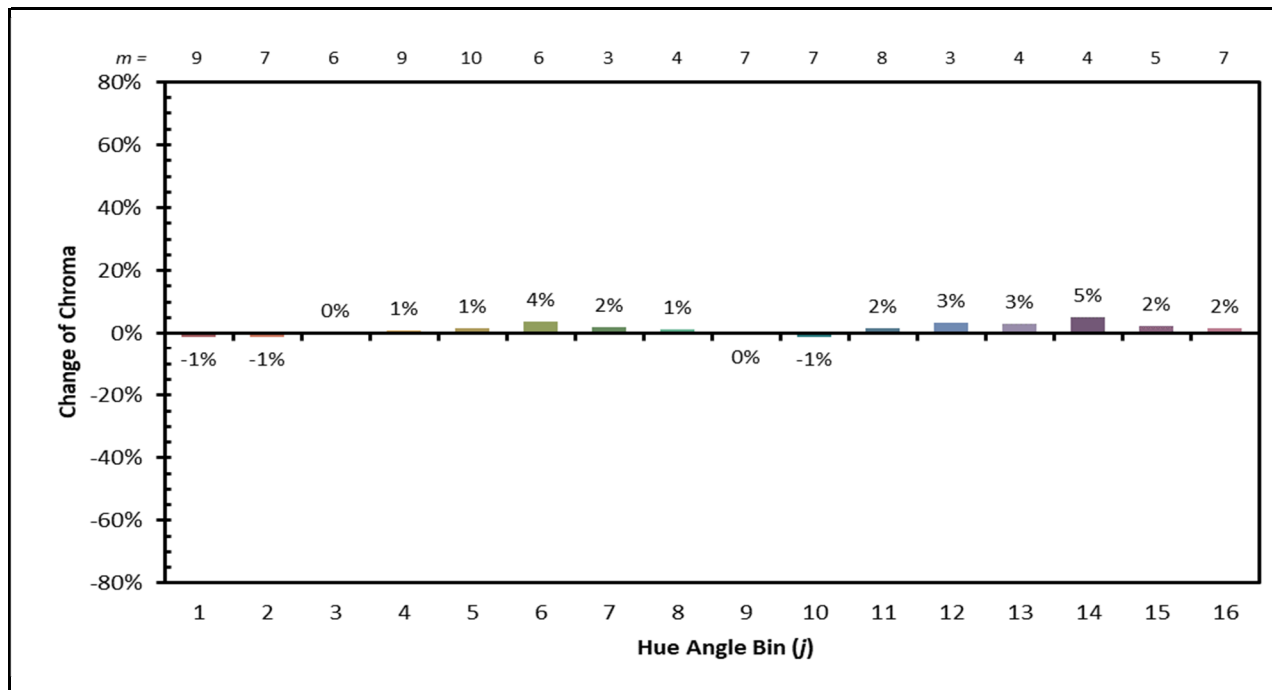
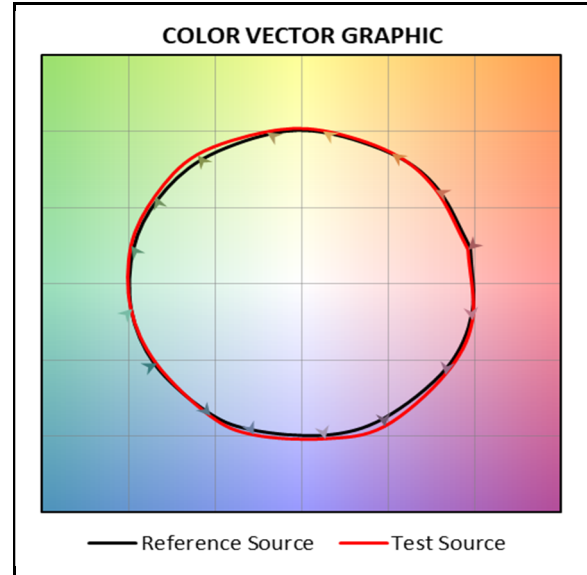
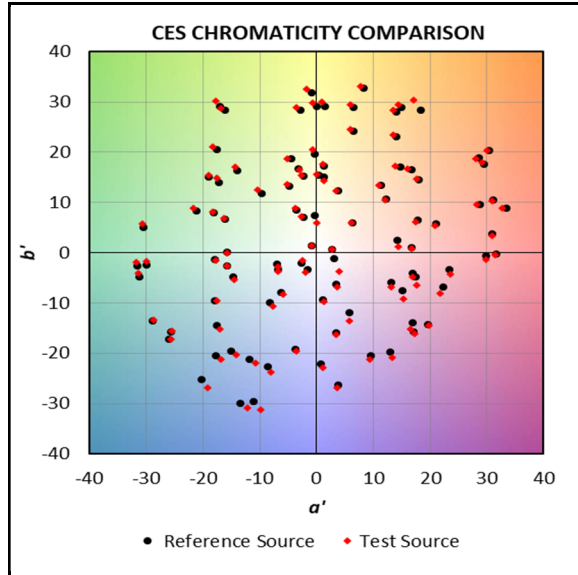
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

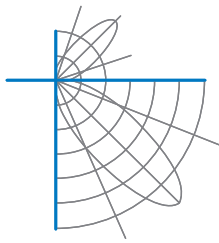
380	0.000102	480	0.004848	580	0.012363	680	0.007877
385	0.000119	485	0.005599	585	0.012679	685	0.006870
390	0.000159	490	0.006573	590	0.012967	690	0.006000
395	0.000208	495	0.007534	595	0.013223	695	0.005242
400	0.000259	500	0.008338	600	0.013461	700	0.004580
405	0.000310	505	0.008887	605	0.013651	705	0.003986
410	0.000378	510	0.009242	610	0.013796	710	0.003470
415	0.000506	515	0.009466	615	0.013893	715	0.003030
420	0.000803	520	0.009627	620	0.014070	720	0.002641
425	0.001383	525	0.009709	625	0.014538	725	0.002301
430	0.002475	530	0.009840	630	0.014783	730	0.002001
435	0.004357	535	0.009982	635	0.014572	735	0.001735
440	0.008017	540	0.010152	640	0.014143	740	0.001499
445	0.012338	545	0.010380	645	0.014533	745	0.001302
450	0.011208	550	0.010618	650	0.015454	750	0.001125
455	0.007768	555	0.010850	655	0.015078	755	0.000975
460	0.006420	560	0.011127	660	0.015834	760	0.000849
465	0.005060	565	0.011392	665	0.013953	765	0.000731
470	0.004236	570	0.011723	670	0.011505	770	0.000634
475	0.004331	575	0.012035	675	0.009368	775	0.000548
						780	0.000474





IES TM-30 Summary





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One Philips Advance XI040C110V054BST1 LED driver

Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere
Measurements acquired using a Labsphere CDS 2600 spectroradiometer
Testing was performed using 4 π geometry

Test Temperature: 24.5 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-08, LM-78-07, LM-58-13, ANSI_ANSLG C78.377-2015,
ANSI C82-77-10:2014, TM-30-15

Significance: 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.

Notes: The measurements 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

This report may contain data that are not covered by the NVLAP accreditation.
Quantities marked with * are not covered.