

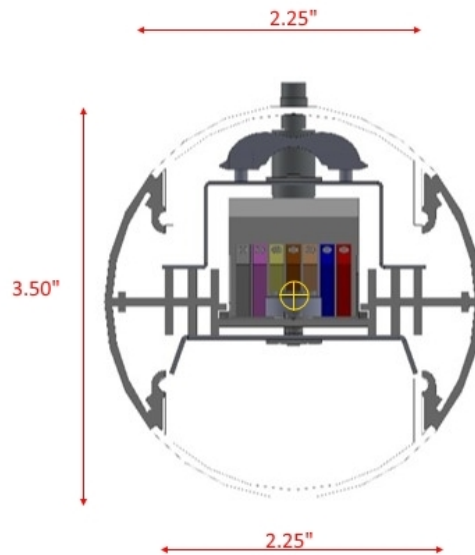
# Report of Test

## LLIA000930-008A

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.  
90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.

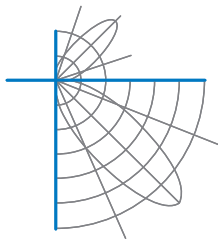
One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver  
120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)



### Performance Summary

Total Light Output	7494 lm
Luminaire Power	59.5 W
Luminous Efficacy	125.9 lm/W

**PREPARED FOR : Precision Architectural Lighting, 4830 Timber Creek Drive, Houston, TX 77017**



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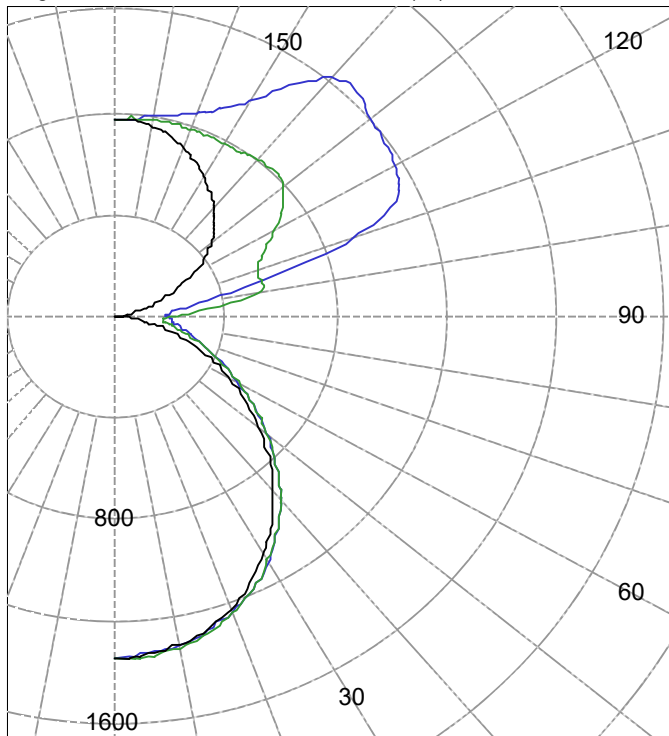
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120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)

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	1343	1343	1343	1343	1343	
5.0	1336	1331	1343	1339	1332	127
10.0	1313	1308	1324	1320	1312	
15.0	1274	1271	1289	1289	1282	362
20.0	1222	1221	1242	1244	1237	
25.0	1155	1154	1182	1187	1182	540
30.0	1077	1078	1106	1115	1111	
35.0	991	992	1021	1032	1026	633
40.0	890	896	927	935	930	
45.0	786	794	825	831	824	627
50.0	678	690	720	722	713	
55.0	570	585	613	612	606	537
60.0	465	484	511	511	507	
65.0	363	386	416	422	421	402
70.0	266	295	333	347	348	
75.0	176	212	263	284	288	264
80.0	97	144	209	233	239	
85.0	37	95	177	197	204	166
90.0	1	69	201	185	185	

**AVERAGE LUMINANCE (cd / m<sup>2</sup>)**

Gamma	C0	C45	C90
45.0	15826	14372	13650
55.0	14079	12386	11469
65.0	12077	10406	9623
75.0	9386	8971	8641
85.0	5378	9950	9323

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	1029	N / A	13.7
0-40	1662	N / A	22.2
0-60	2826	N / A	37.7
0-90	3658	N / A	48.8
40-90	1996	N / A	26.6
60-90	832	N / A	11.1
90-180	3836	N / A	51.2
0-180	7494	N / A	100.0

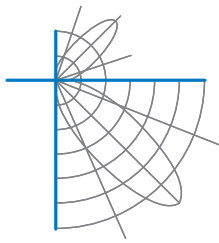
Total Light Output = 7,494 lm

Spacing Criterion: 0-180 1.2  
Spacing Criterion: 90-270 1.2

Signed:

Authorized Signatory

Date of test 24-Jan-2018  
Date of report 25-Jan-2018



**Test Report No. LLIA000930-008A**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

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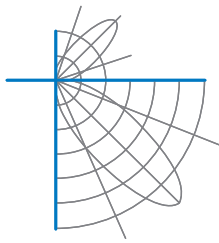
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One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1343	1343	1343	1343	1343
2.5	1342	1337	1348	1345	1338
5.0	1336	1331	1343	1339	1332
7.5	1326	1322	1334	1332	1324
10.0	1313	1308	1324	1320	1312
12.5	1297	1294	1308	1307	1298
15.0	1274	1271	1289	1289	1282
17.5	1254	1250	1266	1269	1261
20.0	1222	1221	1242	1244	1237
22.5	1191	1190	1214	1218	1210
25.0	1155	1154	1182	1187	1182
27.5	1119	1118	1147	1153	1146
30.0	1077	1078	1106	1115	1111
32.5	1036	1037	1065	1076	1069
35.0	991	992	1021	1032	1026
37.5	941	946	976	985	979
40.0	890	896	927	935	930
42.5	839	846	877	884	876
45.0	786	794	825	831	824
47.5	734	742	773	776	768
50.0	678	690	720	722	713
52.5	624	638	666	666	658
55.0	570	585	613	612	606
57.5	517	534	561	560	555
60.0	465	484	511	511	507
62.5	413	435	462	465	462
65.0	363	386	416	422	421
67.5	314	340	373	382	383
70.0	266	295	333	347	348
72.5	220	252	296	314	316
75.0	176	212	263	284	288
77.5	134	176	234	257	262
80.0	97	144	209	233	239
82.5	64	117	188	213	220
85.0	37	95	177	197	204
87.5	16	79	179	187	192
90.0	1	69	201	185	185



**Test Report No. LLIA000930-008A**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.

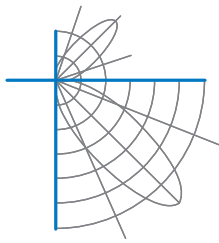
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One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	1	69	201	185	185
92.5	5	67	253	196	187
95.0	14	70	338	225	202
97.5	26	81	446	276	244
100.0	43	97	525	358	310
102.5	64	117	549	502	402
105.0	90	141	546	711	553
107.5	120	171	543	898	766
110.0	154	207	548	1020	947
112.5	190	246	565	1070	1073
115.0	229	288	594	1080	1132
117.5	270	330	627	1078	1157
120.0	311	372	663	1079	1172
122.5	351	411	703	1082	1188
125.0	388	448	742	1084	1194
127.5	423	482	774	1092	1202
130.0	454	516	799	1110	1209
132.5	480	546	811	1131	1228
135.0	506	572	814	1138	1244
137.5	530	595	810	1126	1248
140.0	553	615	803	1094	1221
142.5	575	633	795	1049	1173
145.0	597	649	790	997	1107
147.5	618	665	787	951	1042
150.0	638	681	786	911	983
152.5	658	696	786	880	935
155.0	678	709	785	857	895
157.5	694	722	783	843	871
160.0	711	733	783	829	850
162.5	726	741	785	817	834
165.0	739	750	787	808	818
167.5	750	758	787	804	808
170.0	760	763	785	797	799
172.5	767	768	784	790	791
175.0	774	770	783	784	782
177.5	777	772	781	781	778
180.0	776	776	776	776	776



**Test Number: LLIA000930-008A**

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120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)

**Coefficients Of Utilization - Zonal Cavity Method**

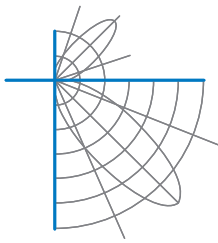
Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	92	88	85	89	85	82	78	72	69	67	59	57	56	48	47	45	40
2	88	81	74	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	54	55	50	46	46	42	39	37	34	32	28
4	74	63	55	48	67	58	51	45	49	44	39	41	37	33	33	30	28	24
5	67	56	48	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	18
7	57	45	37	31	53	42	35	30	36	30	26	30	26	22	25	21	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	19	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	19	23	19	16	19	16	14	12

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**

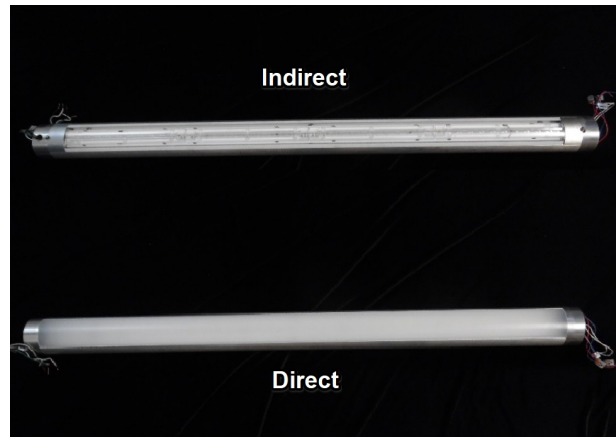
Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	37.3	7.18	7.37
8.0	21.0	9.57	9.82
10.0	13.4	11.96	12.28
12.0	9.3	14.36	14.73
14.0	6.9	16.75	17.19
16.0	5.2	19.14	19.64

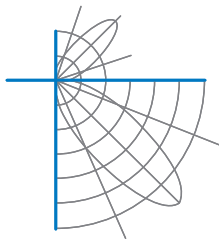


**Test Report No. LLIA000930-008A**

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120.0Vac, 60.00Hz, 0.4998A, 59.53W, 0.993PF, 3.5%THD(i)

**Test Distance** 9.5 m  
**Test Temperature** 25.0 °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.

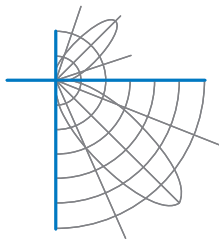
Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

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

**LLIA000930-008B**

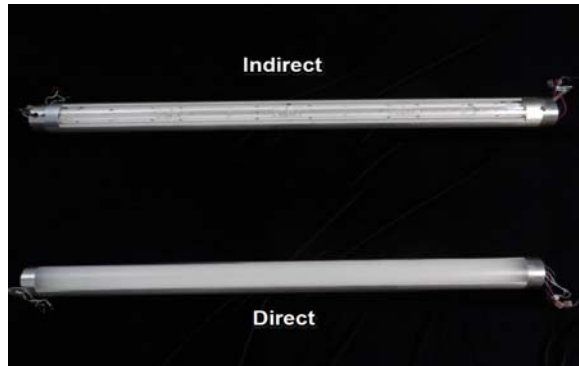
Integrating Sphere Report

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One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver



### Performance Summary

Voltage	120.0 Vac
Current	0.5001 A
Power	59.45 W
Frequency	59.97 Hz
Power Factor	0.991
Current THD	3.3 %

Total Luminous Flux	7443.7 lm
Efficacy	125.2 lm/W
Chromaticity (x,y)	(0.3789, 0.3751)
(u',v')	(0.2247, 0.5006)
Duv	-0.0003
CCT	4031 K
CRI (Ra)	84
R9	17
TM-30: Rf	83
TM-30: Rg	95

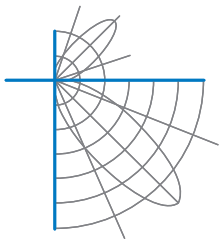
Prepared For:

Precision Architectural Lighting  
4830 Timber Creek Drive  
Houston, TX 77017, USA

Test date: 01/19/2018

Report date: 01/24/2018



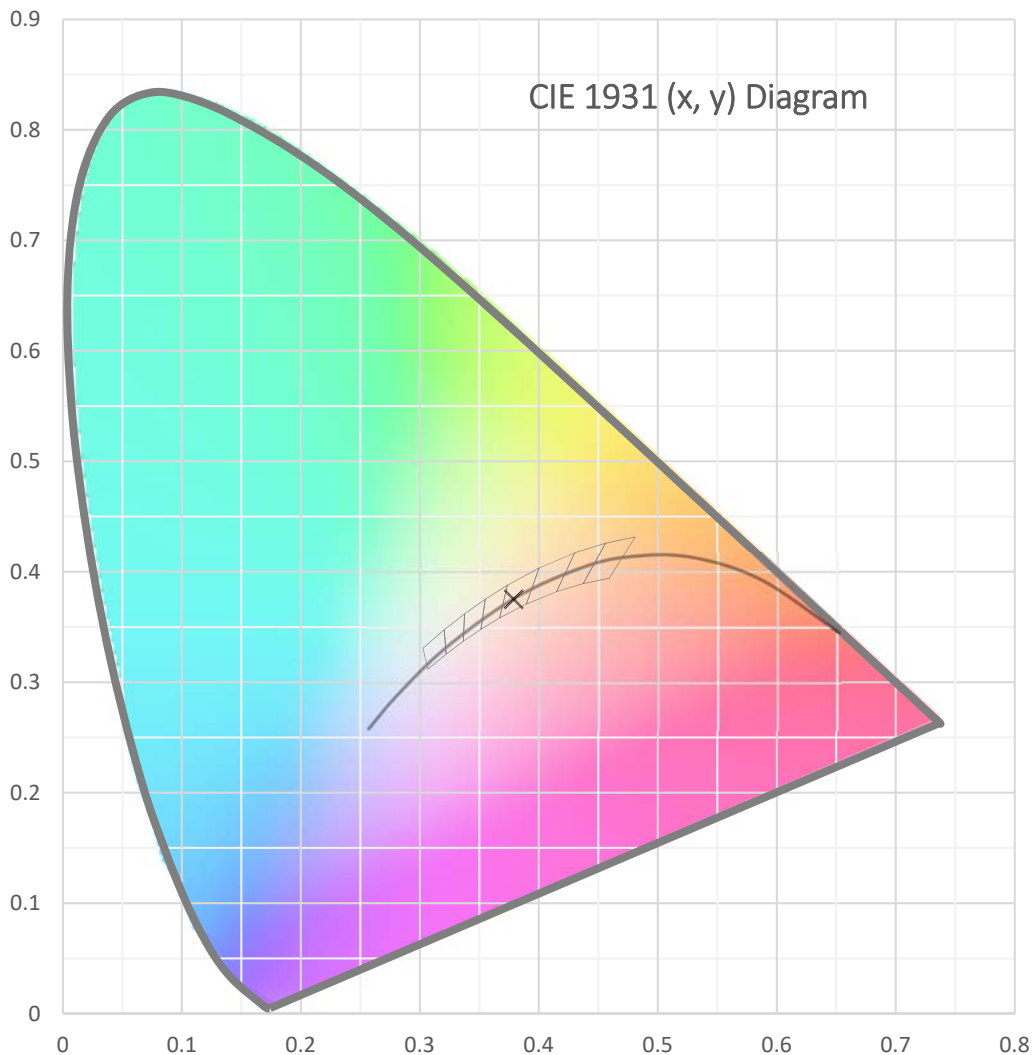


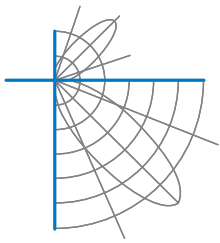
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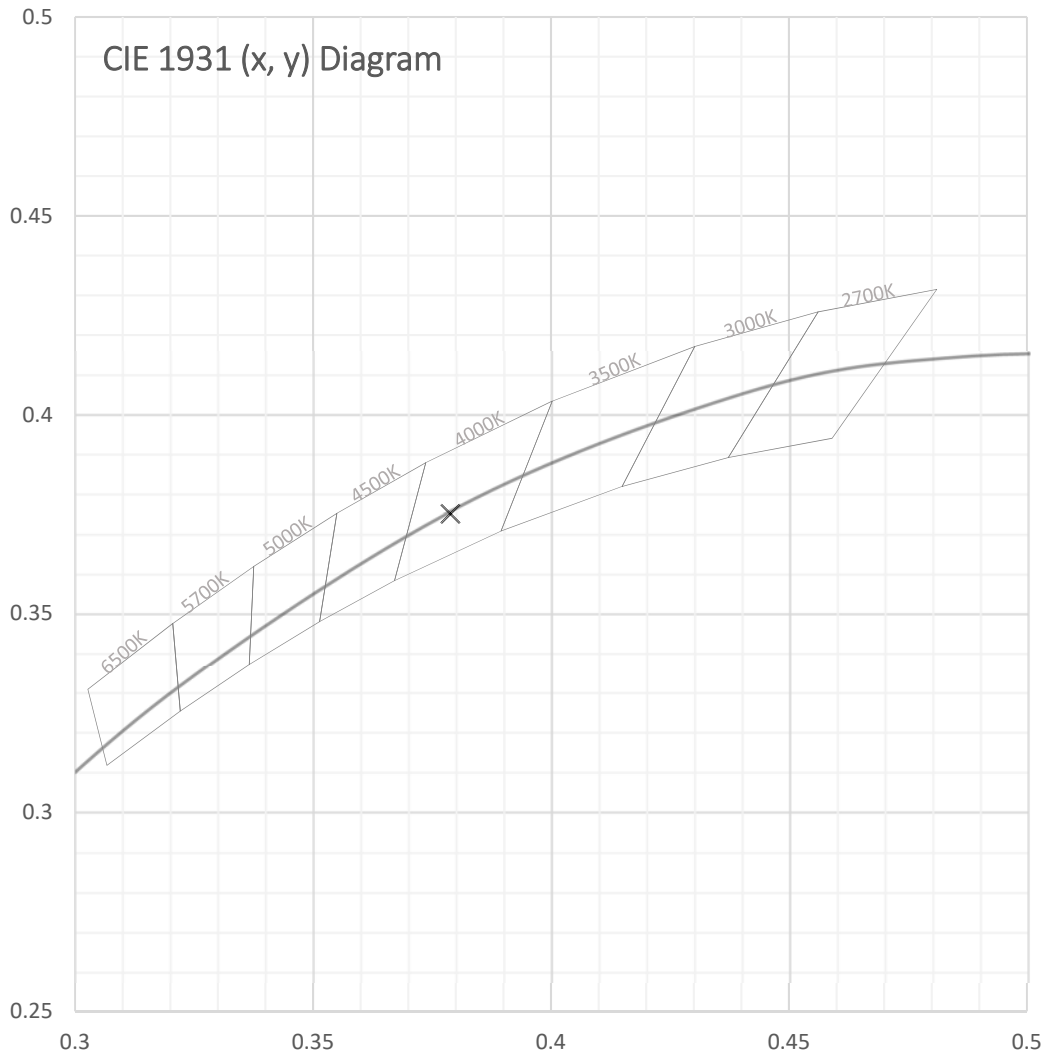


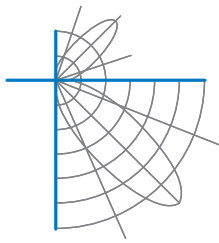


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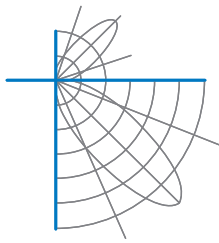
One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

**Spectral Data**

Total Radiant Flux	23.22 W
Total Luminous Flux	7443.7 Lm
Chromaticity CIE 1931 (x, y)	(0.3789, 0.3751)
Chromaticity CIE 1976 (u', v')	(0.2247, 0.5006)
Correlated Color Temperature (CCT)	4031 K
Color Rendering Index (Ra)	84
R1	83
R2	91
R3	95
R4	82
R5	83
R6	87
R7	87
R8	67
R9	17
R10	78
R11	81
R12	62
R13	85
R14	98
TM-30: Rf	83
TM-30: Rg	95
Distance from Planckian Locus (Duv)	-0.0003
Scotopic/Photopic Ratio *	1.720

**Electrical Data**

Voltage	120.0 Vac
Current	0.5001 A
Power	59.45 W
Frequency	59.97 Hz
Power Factor	0.991
Current THD	3.3 %



**Test Report Number: LLIA000930-008B**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum

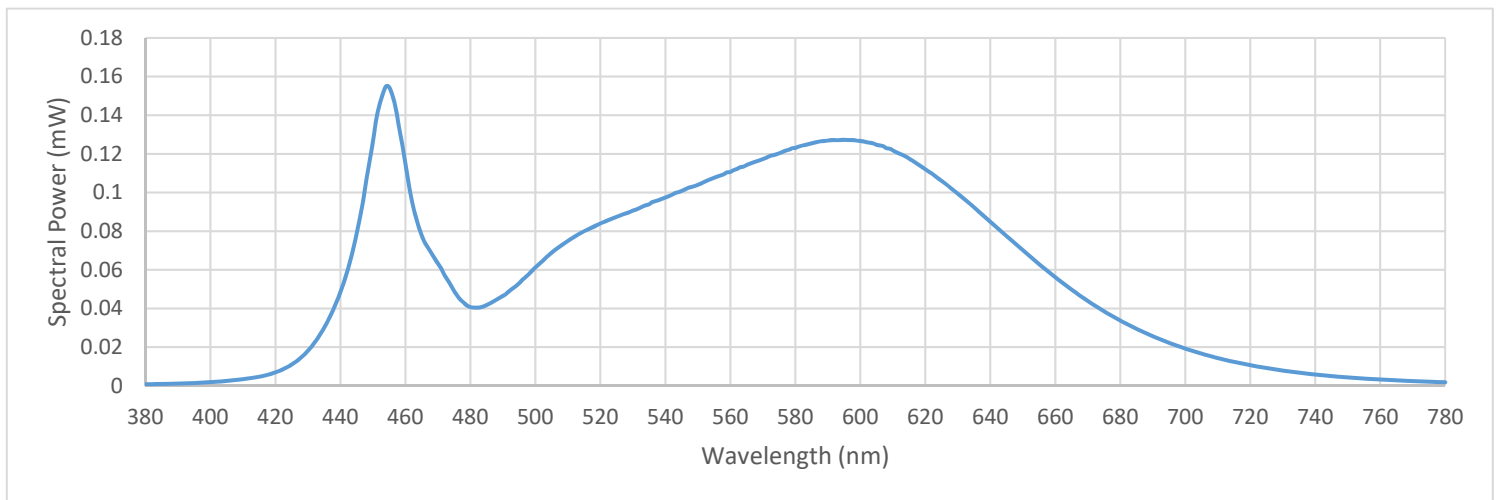
reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.

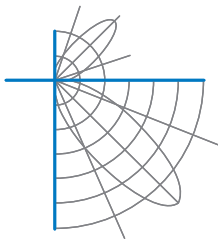
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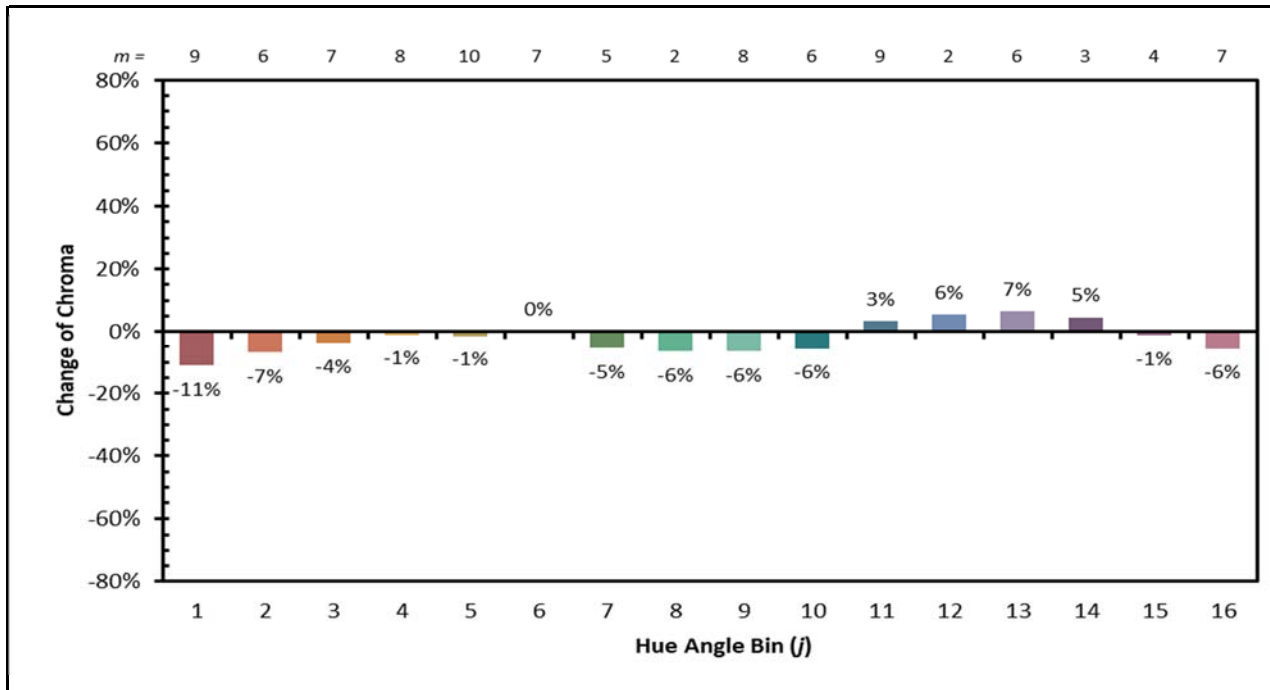
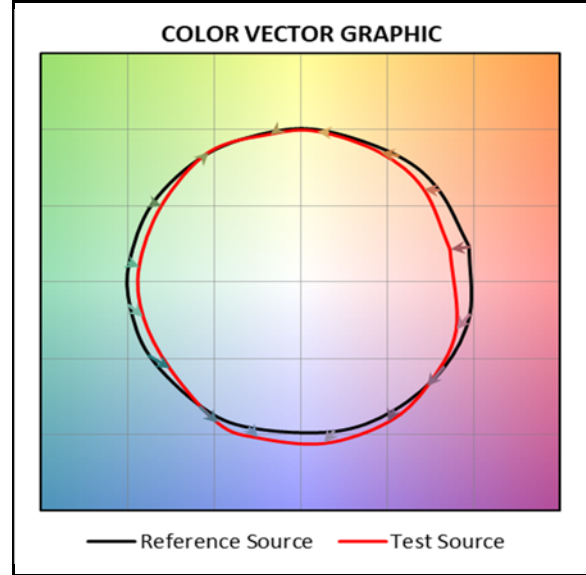
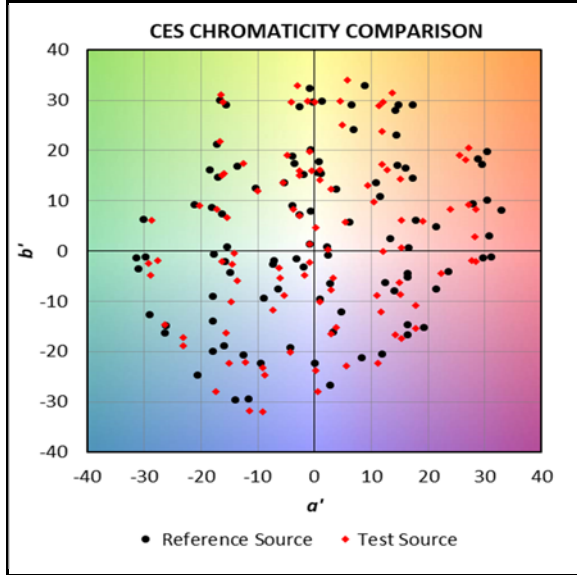
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

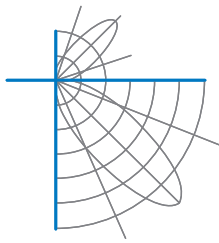
380	0.000827	480	0.040712	580	0.123089	680	0.033773
385	0.000882	485	0.041751	585	0.125401	685	0.029472
390	0.001100	490	0.046541	590	0.126868	690	0.025634
395	0.001418	495	0.053075	595	0.127285	695	0.022248
400	0.001900	500	0.061231	600	0.126711	700	0.019279
405	0.002525	505	0.068897	605	0.124716	705	0.016622
410	0.003416	510	0.074992	610	0.121903	710	0.014315
415	0.004651	515	0.080036	615	0.117528	715	0.012371
420	0.006955	520	0.084059	620	0.112089	720	0.010656
425	0.010937	525	0.087373	625	0.106137	725	0.009142
430	0.018115	530	0.090645	630	0.099292	730	0.007881
435	0.030131	535	0.093909	635	0.092402	735	0.006757
440	0.048319	540	0.097375	640	0.084845	740	0.005804
445	0.078723	545	0.100789	645	0.077484	745	0.005014
450	0.126192	550	0.104018	650	0.070033	750	0.004321
455	0.154444	555	0.107743	655	0.062912	755	0.003736
460	0.115229	560	0.110646	660	0.056129	760	0.003248
465	0.077696	565	0.114224	665	0.049717	765	0.002799
470	0.063403	570	0.117260	670	0.043772	770	0.002419
475	0.048984	575	0.120326	675	0.038569	775	0.002085
						780	0.001808





IES TM-30 Summary





**Test Report Number: LLIA000930-008B**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.  
90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.  
One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

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

Test Temperature: 25.3 °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.



## Report of Test

**LLIA000930-008C**

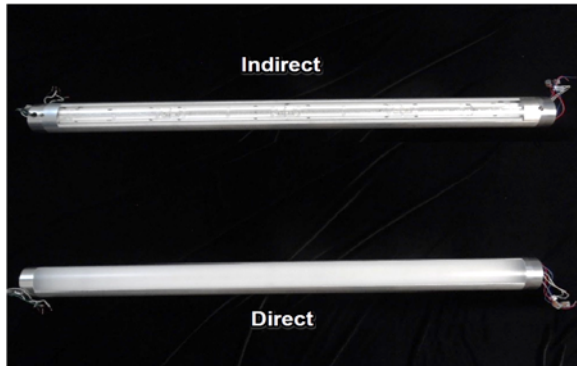
Electrical Test Report

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.

90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.

One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver



### Performance Summary

Voltage	277.0 Vac
Current	0.2246 A
Power	59.14 W
Frequency	60.00 Hz
Power Factor	0.951
Current THD	5.7 %
 Ambient Temperature:	 25.1 °C

Prepared For:

Precision Architectural Lighting  
4830 Timber Creek Drive  
Houston, TX 77017, USA

Tested in accordance with the applicable sections of C82.77-10-2014. 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. 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.

Test date: 02/01/2018

Report date: 02/02/2018

Electrical Report Template V1-2



## Report of Test

LLIA000930-008D

ISTM Report

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.  
90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.

One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver



Prepared For:  
Precision Architectural Lighting  
4830 Timber Creek Drive  
Houston, TX 77017, USA

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

Test date: 02/01/2018

Report date: 02/02/2018





**Test Report Number: LLIA000930-008D**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.

90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.

One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

- Purpose of Test:** To determine the in-situ temperature of the specified LED Ts point and driver Tc point. In this test, in-situ temperature refers to standard laboratory conditions with the luminaire configured in accordance with appropriate sections of UL1598-2008
- Luminaire Mounting:** Pendant
- LED Test Point:** Thermocouples were attached to the LED case temperature point (Ts) as specified by report number SQETMN558601, issued 07/11/2016 by Nichia Corporation LED Testing Laboratory. The measured LED was selected according to guidance provided by DLC and ENERGY STAR for lumen maintenance projection.
- Driver Test Point:** Thermocouples were attached to the driver case in the location (Tc) designated by the manufacturer.
- Sample Selection:** LightLab International Allentown. LLC has not participated in the selection of sample(s) being tested. Testing is performed on the understanding that the significance of the report is limited to the extent to which the sample is representative of production units.
- Disclaimer:** 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.
- Procedure:** In-situ temperature measurements were performed with the luminaire mounted suspended from a simulated ceiling. The luminaire supply voltage and frequency was set according to the luminaire manufacturer's instructions. The luminaire was allowed to reach stabilization as defined in UL1598-2008 prior to reported measurements. Testing was performed in a draft-free, temperature-controlled environment with an ambient temperature of 25 +/- 5 °C.
- Test Equipment:** GW Instek APS-7100 AC Power Source  
Xitron 2801 Power Analyzer  
Fluke 52-ii Thermometer



**Test Report Number: LLIA000930-008D**

Catalog Number: AR300-I/D-HO/HO-K40-80--4-XX-WSCL/LOH-XXXX-120

Pendant mounted, extruded aluminum housing, formed white aluminum reflector trays, clear plastic upper enclosure and frosted plastic lower enclosure.

90 white upper LEDs with clear, lightly frosted plastic optics above, 96 white lower LEDs.

One Osram Optotronic OTi 85/120-277/2A0 DIMLT2 L LED driver

Electrical Measurements

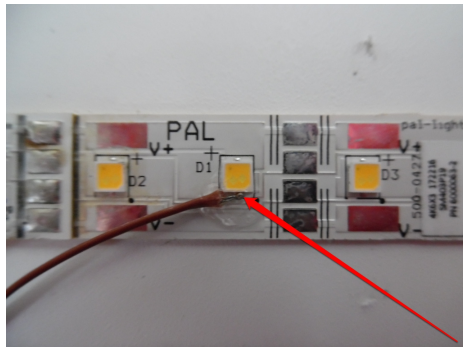
Voltage	120.0 Vac
Current	0.5010 A
Power	59.87 W
Frequency	60.0 Hz
Power Factor	0.996
Current THD	3.6 %
Driver #1 Output	1.490 Adc

Temperature Measurements

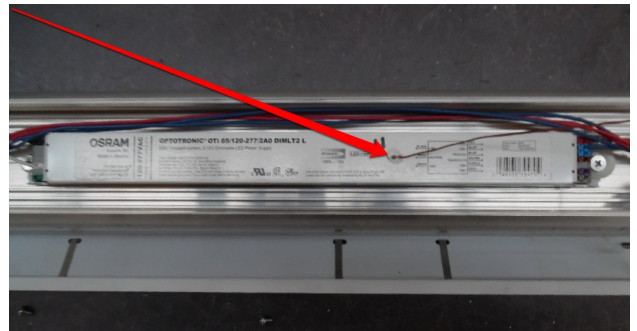
LED #1 (Ts)	65.1°C	Driver #1 (Tc)	69.8°C
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\*The above temperatures have been normalized to 25°C ambient.

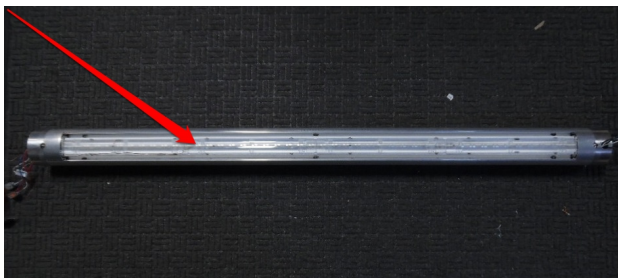
Measured Ambient Temperature (Ta) 24.1°C



LED Thermocouple Location



Driver Thermocouple Location



Selected LED Location