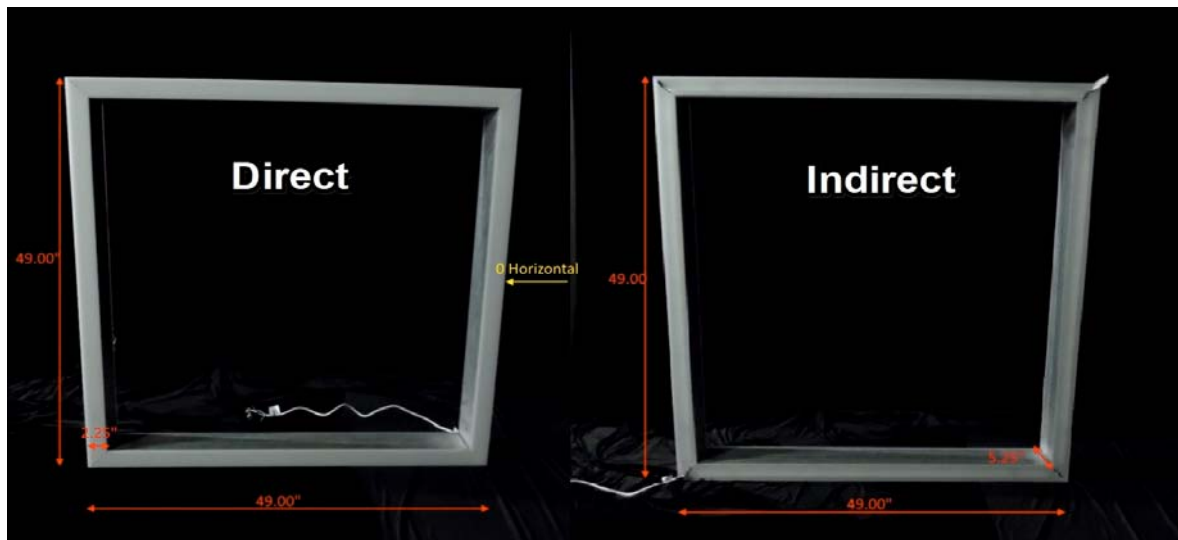




# Report of Test

## LLIA000833-011A

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV  
Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.  
Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%THD(i)



### Performance Summary

Total Light Output	23922 lm
Luminaire Power	236.9 W
Luminous Efficacy	101.0 lm/W

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



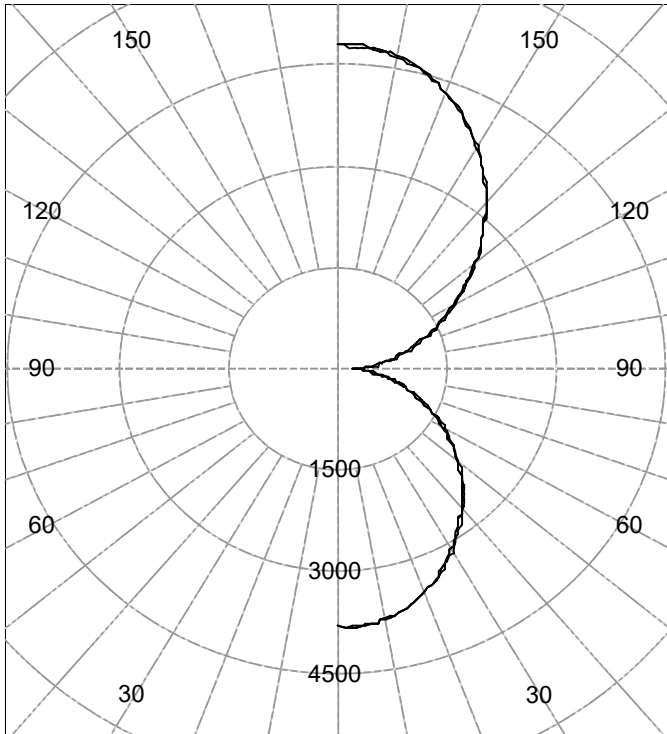
**Test Report No. LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.

Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%THD(i)

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	3801	3801	3801	3801	3801	
5.0	3809	3797	3796	3798	3813	361
10.0	3751	3739	3739	3737	3749	
15.0	3645	3632	3638	3630	3643	1025
20.0	3492	3486	3495	3487	3495	
25.0	3303	3309	3321	3309	3306	1525
30.0	3085	3107	3116	3107	3088	
35.0	2851	2887	2895	2888	2859	1802
40.0	2609	2652	2657	2653	2616	
45.0	2374	2405	2411	2408	2375	1853
50.0	2132	2156	2162	2158	2135	
55.0	1876	1902	1913	1904	1877	1698
60.0	1613	1646	1660	1645	1612	
65.0	1352	1391	1405	1390	1354	1372
70.0	1108	1142	1153	1139	1110	
75.0	871	900	908	899	871	947
80.0	648	669	672	669	651	
85.0	386	417	435	417	387	473
90.0	203	221	226	223	206	

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

Gamma	C0	C45	C90
45.0	22960	22859	22974
55.0	21916	21731	21926
65.0	20732	20702	20756
75.0	20332	19883	20313
85.0	20105	19675	20153

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	2910	N / A	12.2
0-40	4713	N / A	19.7
0-60	8263	N / A	34.5
0-90	11055	N / A	46.2
40-90	6343	N / A	26.5
60-90	2792	N / A	11.7
90-180	12867	N / A	53.8
0-180	23922	N / A	100.0

Total Light Output = 23,922 lm

Signed:

Authorized Signatory

Date of test

3-Oct-2017

Date of report

3-Oct-2017



**Test Report No. LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.

Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	3801	3801	3801	3801	3801
2.5	3824	3811	3813	3814	3824
5.0	3809	3797	3796	3798	3813
7.5	3787	3771	3775	3771	3788
10.0	3751	3739	3739	3737	3749
12.5	3706	3688	3692	3689	3705
15.0	3645	3632	3638	3630	3643
17.5	3573	3563	3570	3563	3573
20.0	3492	3486	3495	3487	3495
22.5	3403	3401	3412	3401	3407
25.0	3303	3309	3321	3309	3306
27.5	3197	3210	3222	3211	3201
30.0	3085	3107	3116	3107	3088
32.5	2969	2996	3006	2998	2971
35.0	2851	2887	2895	2888	2859
37.5	2732	2769	2777	2772	2740
40.0	2609	2652	2657	2653	2616
42.5	2493	2530	2535	2532	2495
45.0	2374	2405	2411	2408	2375
47.5	2253	2282	2287	2283	2255
50.0	2132	2156	2162	2158	2135
52.5	2005	2028	2038	2030	2009
55.0	1876	1902	1913	1904	1877
57.5	1744	1774	1786	1774	1743
60.0	1613	1646	1660	1645	1612
62.5	1479	1518	1532	1516	1481
65.0	1352	1391	1405	1390	1354
67.5	1229	1265	1278	1263	1230
70.0	1108	1142	1153	1139	1110
72.5	989	1021	1030	1019	988
75.0	871	900	908	899	871
77.5	758	783	790	782	759
80.0	648	669	672	669	651
82.5	546	559	557	557	547
85.0	386	417	435	417	387
87.5	307	334	343	334	308
90.0	203	221	226	223	206



**Test Report No. LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.

Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	203	221	226	223	206
92.5	340	369	378	368	340
95.0	434	465	482	465	435
97.5	589	602	605	602	587
100.0	695	714	722	714	694
102.5	804	829	839	830	804
105.0	924	950	964	951	925
107.5	1059	1081	1096	1081	1056
110.0	1199	1218	1231	1218	1197
112.5	1346	1359	1371	1358	1344
115.0	1490	1504	1515	1505	1486
117.5	1635	1660	1663	1656	1634
120.0	1785	1815	1818	1814	1781
122.5	1943	1974	1976	1970	1937
125.0	2105	2137	2137	2135	2103
127.5	2275	2302	2297	2298	2270
130.0	2454	2469	2468	2465	2448
132.5	2628	2635	2635	2634	2624
135.0	2803	2804	2810	2803	2800
137.5	2975	2975	2982	2975	2968
140.0	3140	3145	3157	3152	3139
142.5	3310	3315	3322	3319	3306
145.0	3470	3485	3486	3487	3474
147.5	3632	3649	3649	3646	3636
150.0	3780	3805	3802	3802	3782
152.5	3929	3949	3947	3948	3927
155.0	4071	4081	4088	4084	4071
157.5	4204	4204	4212	4208	4208
160.0	4334	4322	4325	4322	4334
162.5	4450	4429	4433	4427	4452
165.0	4555	4522	4522	4521	4545
167.5	4630	4601	4600	4602	4624
170.0	4694	4663	4658	4659	4682
172.5	4736	4712	4712	4714	4738
175.0	4772	4747	4745	4749	4771
177.5	4786	4769	4771	4770	4792
180.0	4778	4778	4778	4778	4778



**Test Number: LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	96	92	88	84	88	84	81	77	70	68	65	57	56	54	45	44	43	38
2	87	80	73	68	80	73	68	63	61	57	53	50	47	44	40	38	36	31
3	80	70	62	56	73	64	58	52	54	49	45	44	40	37	35	32	30	26
4	73	62	54	47	66	57	50	44	48	42	38	39	35	32	31	28	26	22
5	67	55	46	40	61	50	43	38	42	37	32	35	31	27	28	25	22	19
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	20	17
7	57	44	36	30	52	41	34	29	35	29	25	29	24	21	23	20	17	15
8	52	40	32	27	48	37	30	25	31	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	22	29	23	20	24	20	17	19	16	14	12
10	46	33	26	21	42	31	25	20	26	21	18	22	18	15	18	15	13	11

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	105.6	7.26	7.26
8.0	59.4	9.67	9.69
10.0	38.0	12.09	12.11
12.0	26.4	14.51	14.53
14.0	19.4	16.93	16.95
16.0	14.8	19.35	19.37

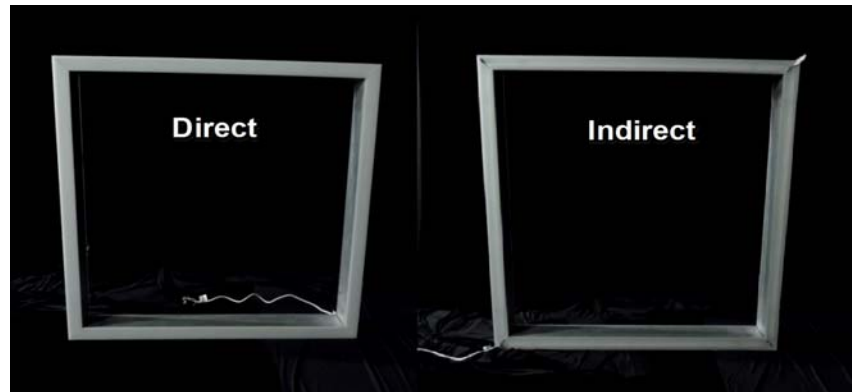


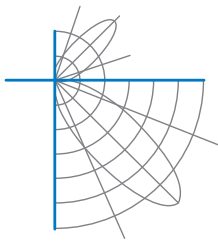
**Test Report No. LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.

Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%THD(i)





**Test Report No. LLIA000833-011A**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each.

Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers  
120.0Vac, 60.00Hz, 1.981A, 237.0W, 0.997PF, 3.6%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

**LLIA000833-011B**

Integrating Sphere Report

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers



### Performance Summary

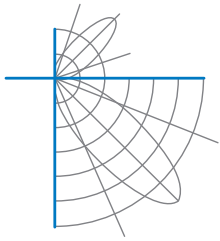
Voltage	120.0 Vac
Current	1.987 A
Power	237.6 W
Frequency	60.00 Hz
Power Factor	0.997
Current THD	3.6 %

Chromaticity (x,y)	(0.4090, 0.3920)
(u',v')	(0.2376, 0.5124)
Duv	-0.0002
CCT	3431 K
CRI (Ra)	82
R9	12

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

Test date: 10/02/2017  
Report date: 10/04/2017

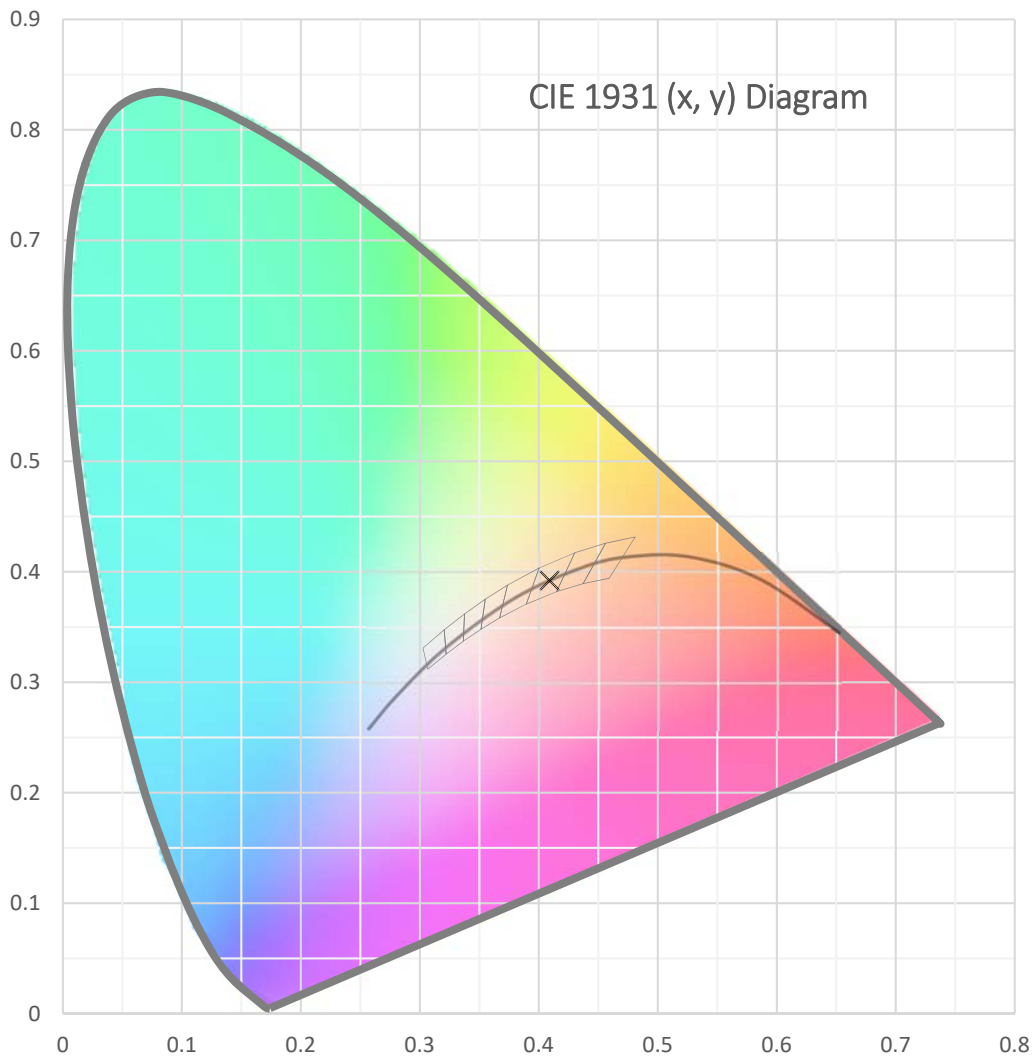


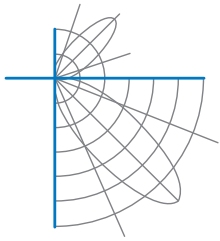


**Test Report Number: LLIA000833-011B**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

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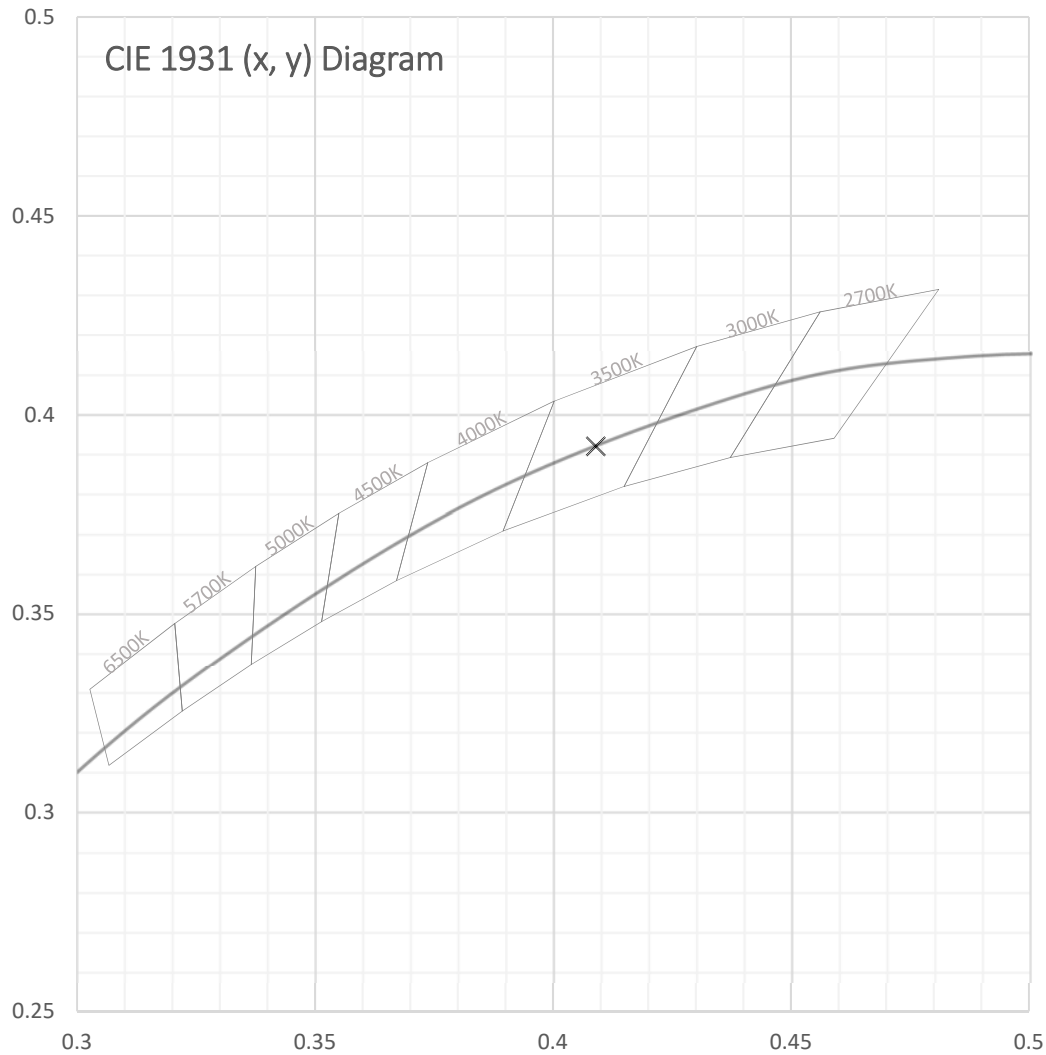




**Test Report Number: LLIA000833-011B**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

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**Test Report Number: LLIA000833-011B**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers

**Spectral Data**

Chromaticity CIE 1931 (x, y)	(0.4090, 0.3920)
Chromaticity CIE 1976 (u', v')	(0.2376, 0.5124)
Correlated Color Temperature (CCT)	3431 K
Color Rendering Index (Ra)	82
R1	81
R2	89
R3	95
R4	80
R5	80
R6	84
R7	86
R8	64
R9	12
R10	73
R11	78
R12	62
R13	82
R14	97
Distance from Planckian Locus (Duv)	-0.0002
Scotopic/Photopic Ratio *	1.479

**Electrical Data**

Voltage	120.0 Vac
Current	1.987 A
Power	237.6 W
Frequency	60.00 Hz
Power Factor	0.997
Current THD	3.6 %



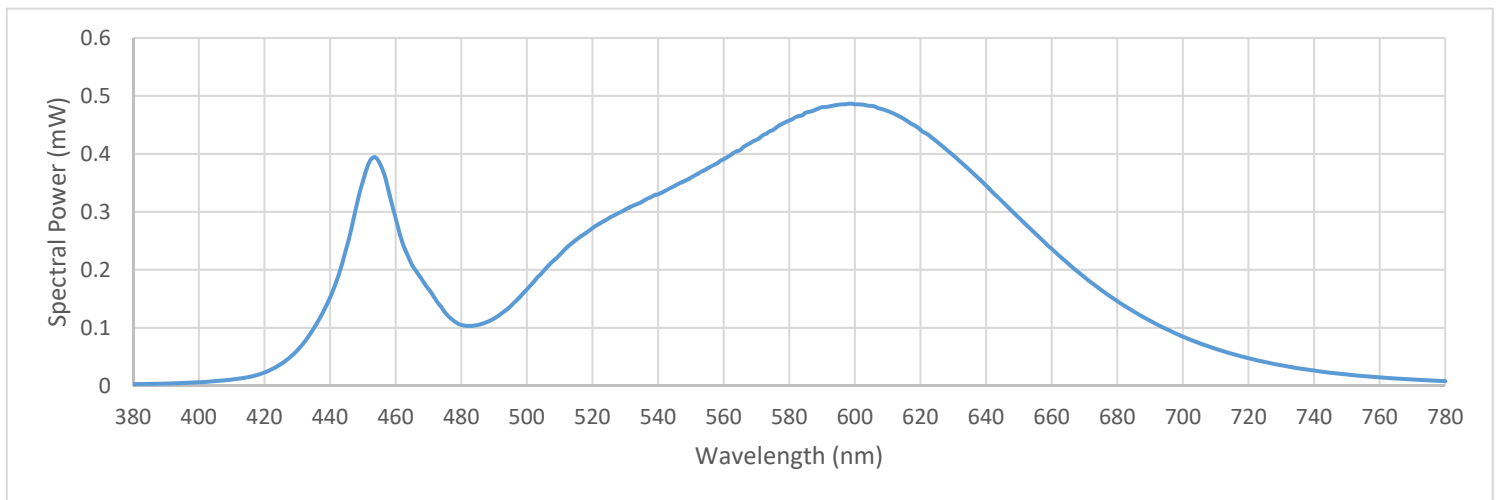
**Test Report Number: LLIA000833-011B**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Pototronic OTI 85/120-277/2A6 DIMLT2 L- LED drivers

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

380	0.002861	480	0.104802	580	0.457749	680	0.145907
385	0.003057	485	0.104832	585	0.471168	685	0.128344
390	0.003748	490	0.115896	590	0.480492	690	0.112256
395	0.004626	495	0.136932	595	0.484708	695	0.097573
400	0.005956	500	0.166491	600	0.485481	700	0.084971
405	0.007848	505	0.197497	605	0.482779	705	0.073684
410	0.010617	510	0.225870	610	0.473638	710	0.063553
415	0.014952	515	0.251645	615	0.460056	715	0.055087
420	0.023050	520	0.272131	620	0.441672	720	0.047502
425	0.037401	525	0.289414	625	0.421258	725	0.040960
430	0.061599	530	0.303667	630	0.397188	730	0.035348
435	0.099306	535	0.316806	635	0.372537	735	0.030351
440	0.151813	540	0.330316	640	0.345103	740	0.026132
445	0.238056	545	0.344522	645	0.317320	745	0.022539
450	0.353093	550	0.358911	650	0.289835	750	0.019415
455	0.385071	555	0.374592	655	0.262360	755	0.016692
460	0.288740	560	0.390610	660	0.236552	760	0.014534
465	0.208183	565	0.406475	665	0.210655	765	0.012525
470	0.166932	570	0.424271	670	0.187250	770	0.010758
475	0.126598	575	0.441070	675	0.165540	775	0.009311
						780	0.008036





**Test Report Number: LLIA000833-011B**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers

**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:** 25.7 °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  
Note: Luminaire was oriented vertically during testing.

**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.



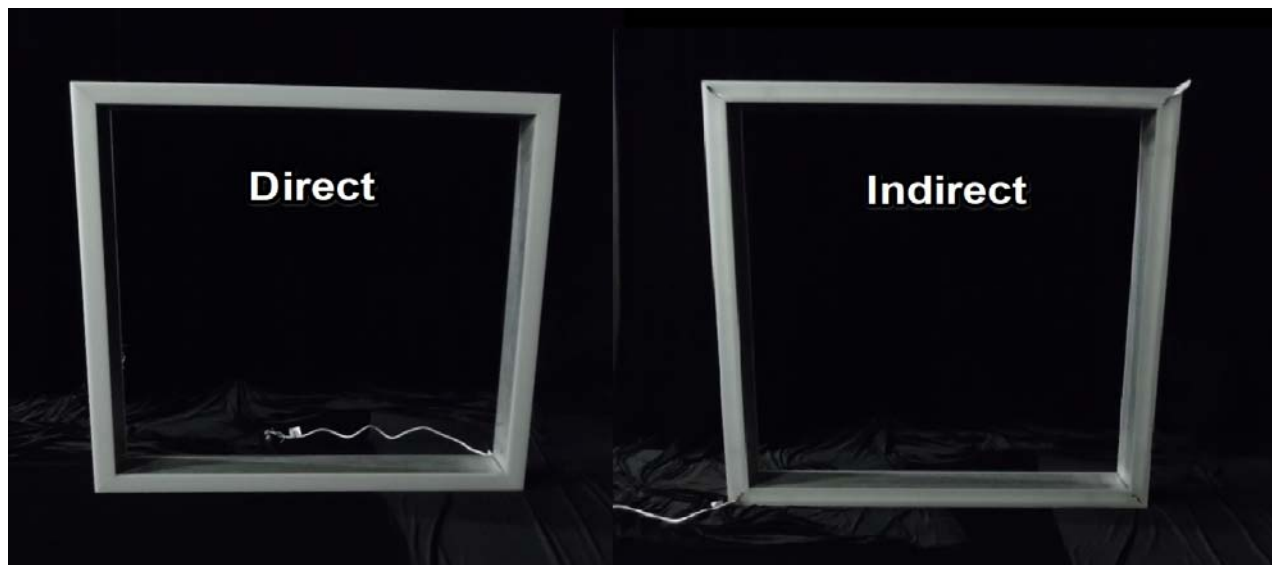
## Report of Test

LLIA000833-011C

ISTM Report

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers



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: 10/04/2017  
Report date: 10/04/2017



**Test Report Number: LLIA000833-011C**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers

- 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 SQETMP098101, issued 04/12/2016 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: LLIA000833-011C**

Catalog Number: MQS2-I/D-HO/HO-K35-80-4X4-XXX-AL/AL-XXXX-UNV

Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers

Electrical Measurements

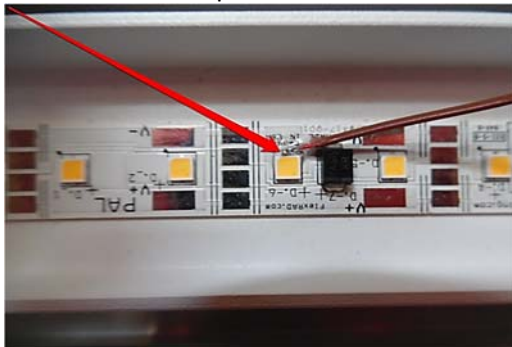
Voltage	120.0 Vac
Current	1.997 A
Power	238.9 W
Frequency	60.0 Hz
Power Factor	0.997
Current THD	4.0 %
Driver #1 Output	1.491 Acd
Driver #2 Output	1.500 Acd
Driver #3 Output	1.490 Acd
Driver #4 Output	1.501 Acd

Temperature Measurements

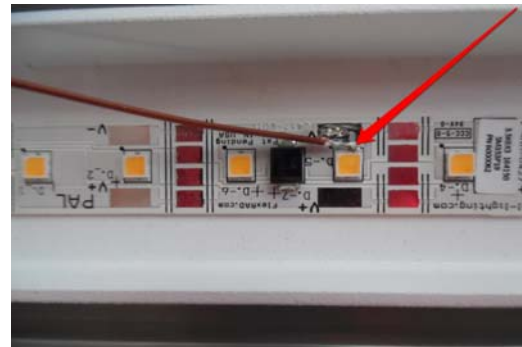
LED #1 (Ts)	62.4°C	Driver #1 (Tc)	65.3°C
LED #2 (Ts)	63.9°C	Driver #2 (Tc)	63.9°C
LED #3 (Ts)	61.8°C	Driver #3 (Tc)	69.1°C
LED #4 (Ts)	58.7°C	Driver #4 (Tc)	65.5°C

\*The above temperatures have been normalized to 25°C ambient.

Measured Ambient Temperature (Ta) 26.3°C



Indirect LED Thermocouple Location 1



Indirect LED Thermocouple Location 2



Indirect LED Driver Location 1



Indirect LED Driver Location 2

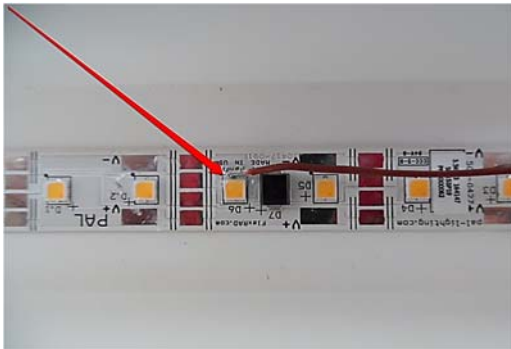




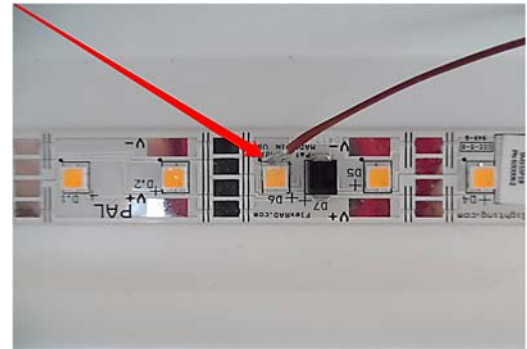
**Test Report Number: LLIA000833-011C**

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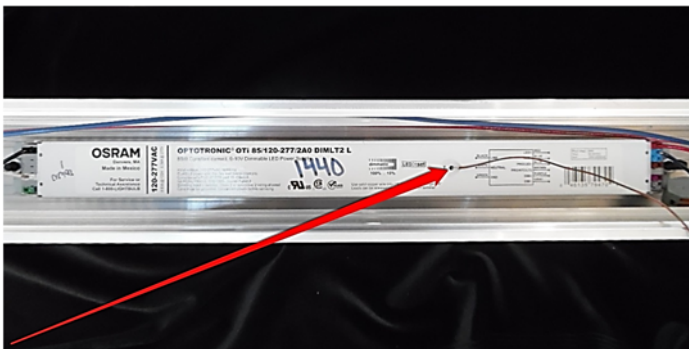
Pendant mounted, extruded aluminum housing, formed white enamel aluminum reflectors, translucent white plastic upper and lower enclosures. 736 white LEDs, 4 PAL-Lighting upper LED boards with 92 LEDs each and 4 PAL-Lighting lower LED boards with 92 LEDs each. Two Osram Optotronic OTi 85/120-277/2A6 DIMLT2 L- LED drivers



Direct LED Thermocouple Location 1



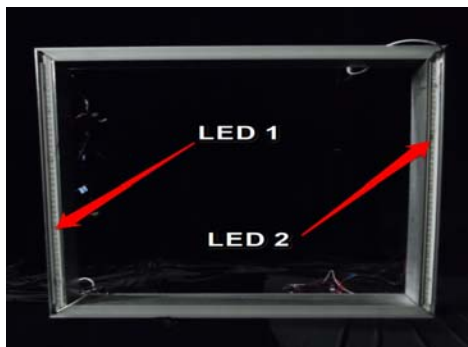
Direct LED Thermocouple Location 2



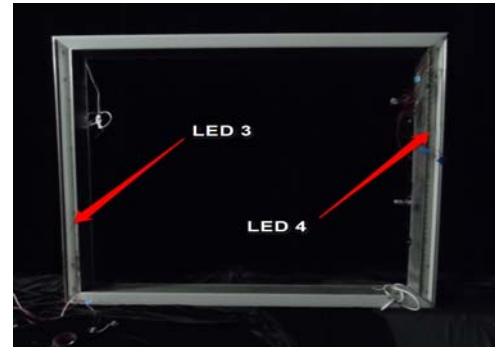
Direct Driver Thermocouple Location 1



Direct Driver Thermocouple Location 2



Indirect Selected LED Locations



Direct Selected LED Locations

ISTM Report Template V2-6