

Report of Test

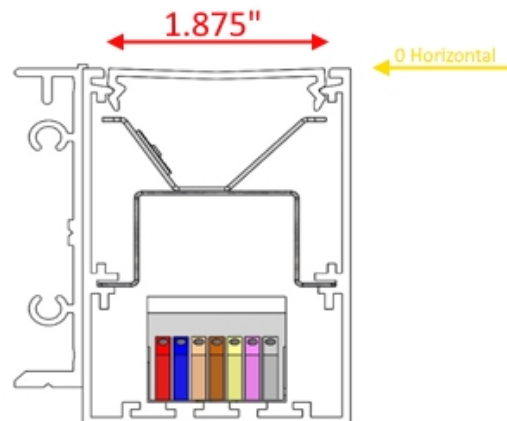
LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

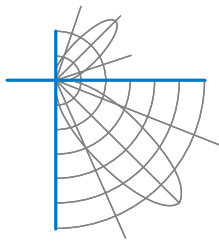
One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA 120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)



Performance Summary

Total Light Output	3196 lm
Luminaire Power	27.9 W
Luminous Efficacy	114.6 lm/W

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



Test Report No. LLIA001116-001A

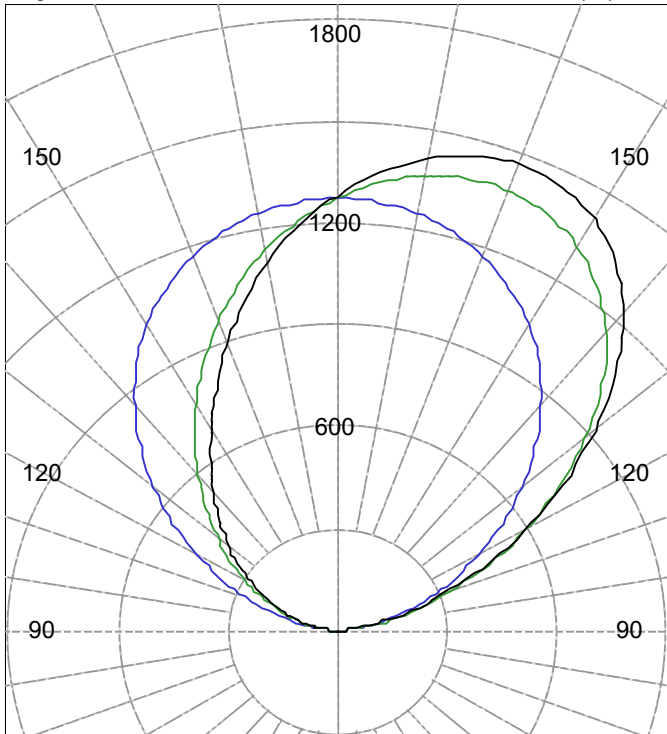
Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Legend: C0/C180-Black, C45/C225-Green, C90/C270-Blue (cd)



C180-C270 (Symmetric about C0/C180) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	0	0	0	0	0	
95.0	20	24	34	42	35	38
100.0	89	97	112	113	92	
105.0	186	195	210	202	167	170
110.0	303	312	324	306	251	
115.0	437	446	452	420	344	335
120.0	588	594	592	543	443	
125.0	749	753	738	670	548	488
130.0	915	913	883	796	655	
135.0	1074	1064	1023	916	761	589
140.0	1212	1196	1139	1025	863	
145.0	1323	1302	1236	1119	960	600
150.0	1401	1377	1307	1190	1041	
155.0	1446	1422	1354	1245	1112	512
160.0	1461	1438	1376	1283	1170	
165.0	1448	1430	1378	1303	1215	343
170.0	1413	1399	1361	1308	1248	
175.0	1357	1348	1326	1297	1267	121
180.0	1278	1278	1278	1278	1278	

ZONAL FLUX AND PERCENTAGES

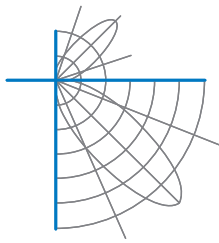
Zone	Flux (lm)	% Lamp	% Luminaire
180-150	976	N / A	30.5
180-140	1576	N / A	49.3
180-120	2653	N / A	83.0
180-90	3196	N / A	100.0
140-90	1620	N / A	50.7
120-90	543	N / A	17.0
90-0	0	N / A	0.0
180-0	3196	N / A	100.0

Total Light Output = 3,196 lm

Signed:

Authorized Signatory

Date of test 10-May-2019
Date of report 20-May-2019



Test Report No. LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

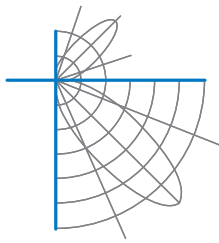
Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	0	0	0	0	0
2.5	0	0	0	0	0
5.0	0	0	0	0	0
7.5	0	0	0	0	0
10.0	0	0	0	0	0
12.5	0	0	0	0	0
15.0	0	0	0	0	0
17.5	0	0	0	0	0
20.0	0	0	0	0	0
22.5	0	0	0	0	0
25.0	0	0	0	0	0
27.5	0	0	0	0	0
30.0	0	0	0	0	0
32.5	0	0	0	0	0
35.0	0	0	0	0	0
37.5	0	0	0	0	0
40.0	0	0	0	0	0
42.5	0	0	0	0	0
45.0	0	0	0	0	0
47.5	0	0	0	0	0
50.0	0	0	0	0	0
52.5	0	0	0	0	0
55.0	0	0	0	0	0
57.5	0	0	0	0	0
60.0	0	0	0	0	0
62.5	0	0	0	0	0
65.0	0	0	0	0	0
67.5	0	0	0	0	0
70.0	0	0	0	0	0
72.5	0	0	0	0	0
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0



Test Report No. LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

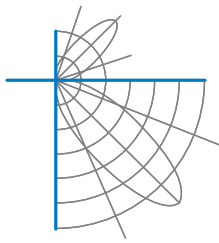
Wall mounted, extruded aluminum housing, formed white
enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	0	0	0	0
92.5	5	5	8	15	15
95.0	20	24	34	42	35
97.5	50	56	70	74	61
100.0	89	97	112	113	92
102.5	135	144	159	155	128
105.0	186	195	210	202	167
107.5	242	252	265	253	208
110.0	303	312	324	306	251
112.5	368	377	387	362	297
115.0	437	446	452	420	344
117.5	510	518	521	480	393
120.0	588	594	592	543	443
122.5	667	673	664	606	495
125.0	749	753	738	670	548
127.5	832	833	811	733	601
130.0	915	913	883	796	655
132.5	996	990	955	858	708
135.0	1074	1064	1023	916	761
137.5	1146	1133	1083	972	813
140.0	1212	1196	1139	1025	863
142.5	1272	1253	1190	1076	912
145.0	1323	1302	1236	1119	960
147.5	1366	1344	1275	1156	1002
150.0	1401	1377	1307	1190	1041
152.5	1427	1404	1334	1220	1078
155.0	1446	1422	1354	1245	1112
157.5	1457	1433	1368	1266	1143
160.0	1461	1438	1376	1283	1170
162.5	1458	1437	1380	1295	1194
165.0	1448	1430	1378	1303	1215
167.5	1433	1417	1371	1307	1233
170.0	1413	1399	1361	1308	1248
172.5	1387	1376	1345	1304	1259
175.0	1357	1348	1326	1297	1267
177.5	1322	1316	1303	1287	1272
180.0	1278	1278	1278	1278	1278



Test Report No. LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

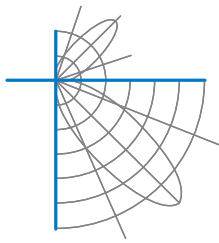
Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	0	0	0	0	0
2.5	0	0	0	0	0
5.0	0	0	0	0	0
7.5	0	0	0	0	0
10.0	0	0	0	0	0
12.5	0	0	0	0	0
15.0	0	0	0	0	0
17.5	0	0	0	0	0
20.0	0	0	0	0	0
22.5	0	0	0	0	0
25.0	0	0	0	0	0
27.5	0	0	0	0	0
30.0	0	0	0	0	0
32.5	0	0	0	0	0
35.0	0	0	0	0	0
37.5	0	0	0	0	0
40.0	0	0	0	0	0
42.5	0	0	0	0	0
45.0	0	0	0	0	0
47.5	0	0	0	0	0
50.0	0	0	0	0	0
52.5	0	0	0	0	0
55.0	0	0	0	0	0
57.5	0	0	0	0	0
60.0	0	0	0	0	0
62.5	0	0	0	0	0
65.0	0	0	0	0	0
67.5	0	0	0	0	0
70.0	0	0	0	0	0
72.5	0	0	0	0	0
75.0	0	0	0	0	0
77.5	0	0	0	0	0
80.0	0	0	0	0	0
82.5	0	0	0	0	0
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0



Test Report No. LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

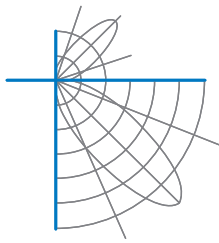
Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	0	0	0	0	0
92.5	15	12	13	15	16
95.0	35	29	28	30	31
97.5	61	49	46	47	48
100.0	92	73	66	66	66
102.5	128	101	89	86	86
105.0	167	131	115	109	108
107.5	208	164	141	134	131
110.0	251	197	170	160	156
112.5	297	233	199	186	182
115.0	344	270	229	214	209
117.5	393	308	260	243	237
120.0	443	347	293	272	266
122.5	495	388	326	303	296
125.0	548	430	361	334	326
127.5	601	473	396	366	358
130.0	655	518	433	399	390
132.5	708	563	471	434	423
135.0	761	609	511	469	458
137.5	813	656	551	505	493
140.0	863	704	592	543	530
142.5	912	752	636	582	568
145.0	960	799	680	622	607
147.5	1002	844	726	665	648
150.0	1041	889	773	709	691
152.5	1078	934	820	756	737
155.0	1112	976	868	804	785
157.5	1143	1017	916	854	836
160.0	1170	1056	963	906	888
162.5	1194	1093	1009	958	942
165.0	1215	1127	1054	1009	996
167.5	1233	1159	1098	1060	1050
170.0	1248	1188	1139	1109	1102
172.5	1259	1214	1177	1156	1152
175.0	1267	1237	1214	1201	1201
177.5	1272	1257	1247	1243	1246
180.0	1278	1278	1278	1278	1278



Test Number: LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

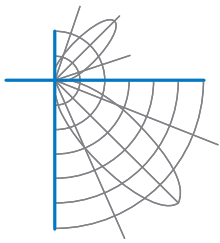
One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

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
0		95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1		87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2		79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3		72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4		65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5		60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6		55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7		50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8		47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9		43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10		40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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.



Test Report No. LLIA001116-001A

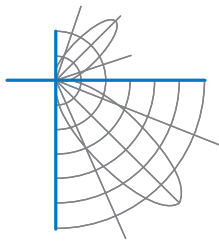
Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)





Test Report No. LLIA001116-001A

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white
enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA
120.0Vac, 60.00Hz, 0.2334A, 27.93W, 0.997PF, 5.6%THD(i)

Test Distance 9.5 m
Test Temperature 24.4 °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 C78.377:2017, 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.

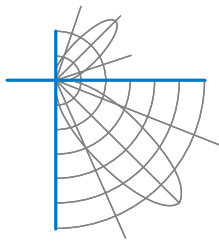
Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

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

LLIA001116-001B

Integrating Sphere Report

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA



Performance Summary

Voltage	120.0 Vac
Current	0.2335 A
Power	27.93 W
Frequency	59.99 Hz
Power Factor	0.997
Current THD	5.6 %

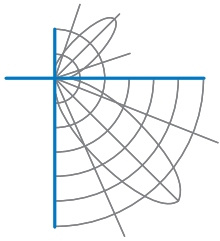
Total Luminous Flux	3244.4 lm
Efficacy	116.2 lm/W
Chromaticity (x,y)	(0.3806, 0.3799)
(u',v')	(0.2240, 0.5030)
Duv	0.0014
CCT	4019 K
CRI (Ra)	83
R9	13
TM-30: Rf	82
TM-30: Rg	95

Prepared For:

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

Test date: 05/13/2019

Report date: 05/17/2019



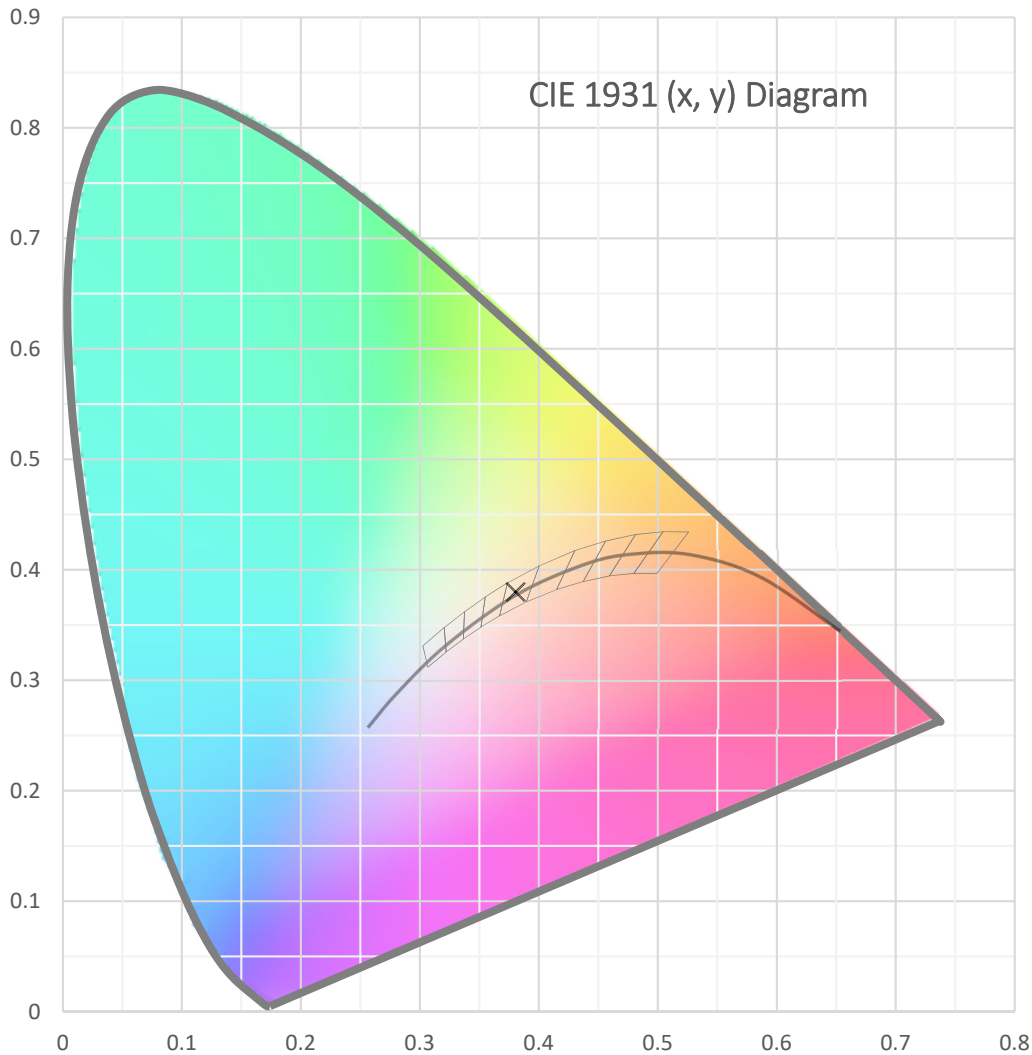
Test Report Number: LLIA001116-001B

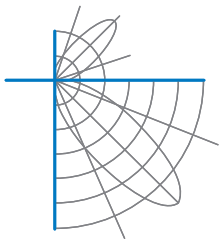
Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA





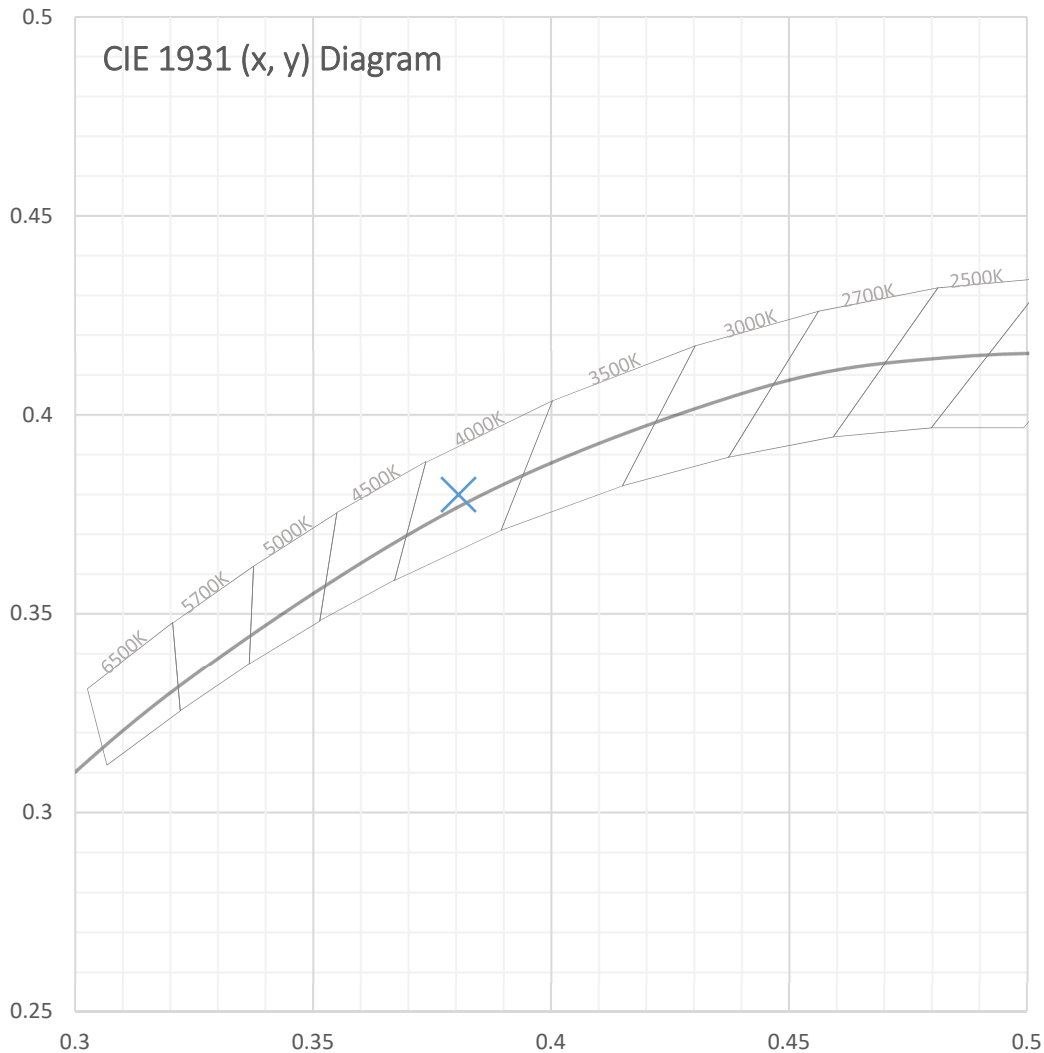
Test Report Number: LLIA001116-001B

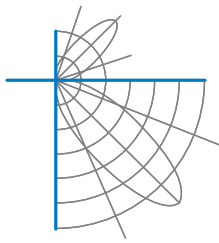
Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA





Test Report Number: LLIA001116-001B

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white
enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

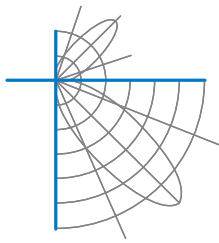
One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA

Spectral Data

Total Radiant Flux	10.01 W
Total Luminous Flux	3244.4 Lm
Chromaticity CIE 1931 (x, y)	(0.3806, 0.3799)
Chromaticity CIE 1976 (u', v')	(0.2240, 0.5030)
Correlated Color Temperature (CCT)	4019 K
Color Rendering Index (Ra)	83
R1	82
R2	89
R3	95
R4	82
R5	81
R6	85
R7	87
R8	66
R9	13
R10	74
R11	80
R12	60
R13	83
R14	97
TM-30: Rf	82
TM-30: Rg	95
Distance from Planckian Locus (Duv)	0.0014
Scotopic/Photopic Ratio *	1.694

Electrical Data

Voltage	120.0 Vac
Current	0.2335 A
Power	27.93 W
Frequency	59.99 Hz
Power Factor	0.997
Current THD	5.6 %



Test Report Number: LLIA001116-001B

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

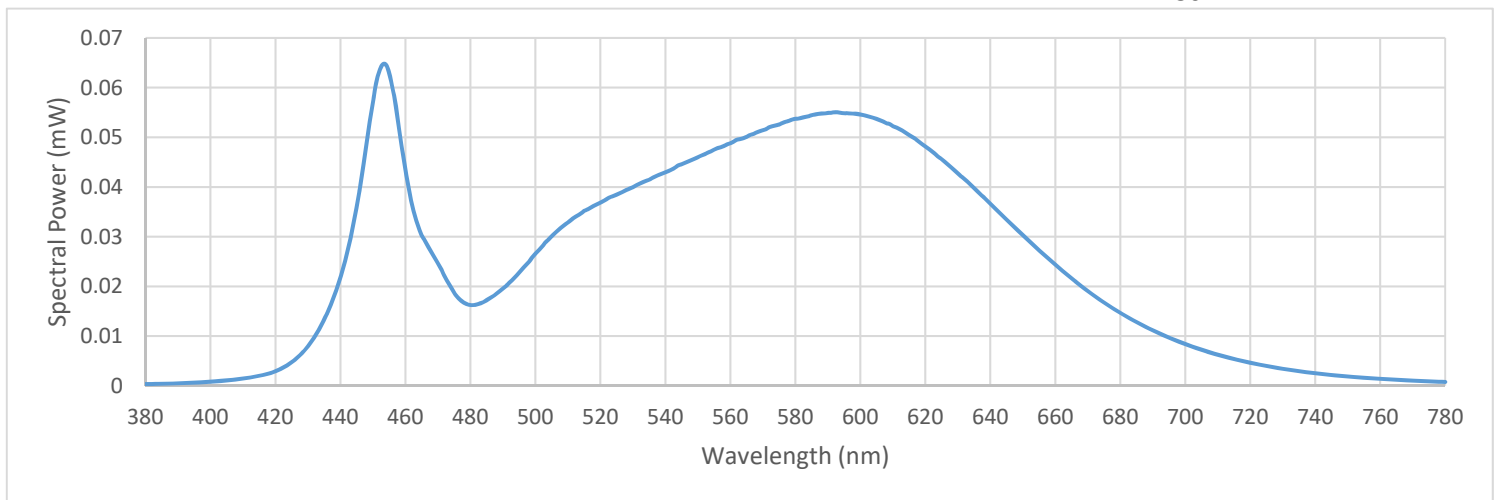
Wall mounted, extruded aluminum housing, formed white
enamel LED tray/reflector, frosted plastic enclosure.

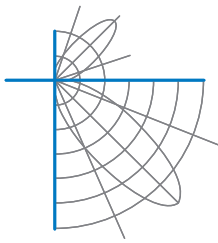
One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA

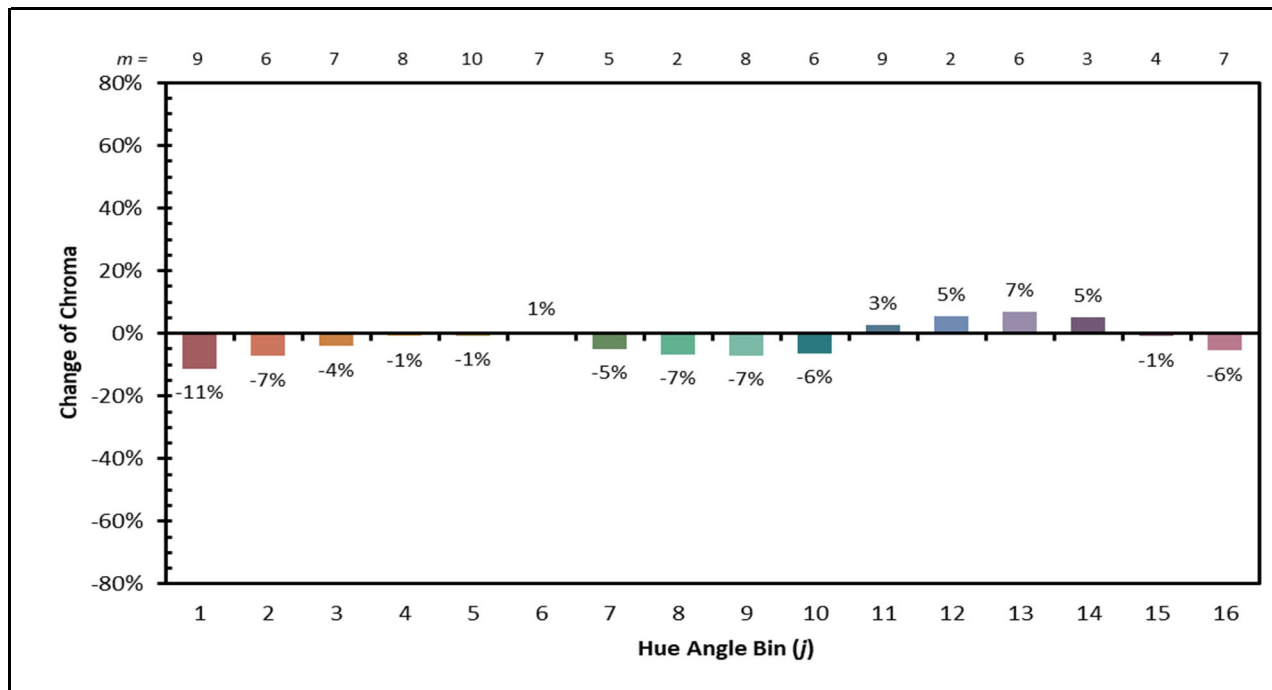
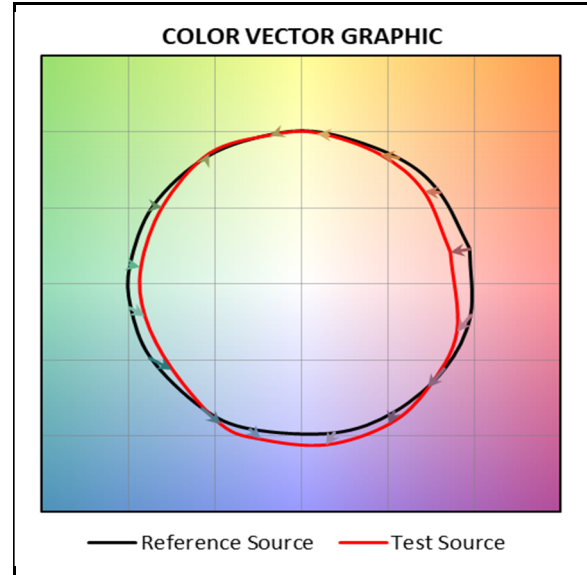
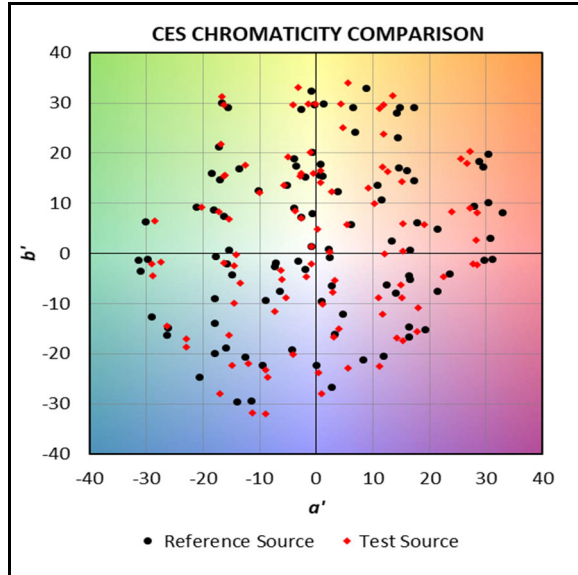
Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

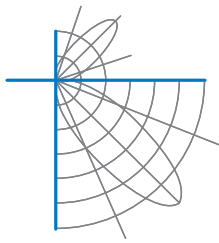
380	0.000349	480	0.016242	580	0.053727	680	0.014672
385	0.000380	485	0.017250	585	0.054453	685	0.012848
390	0.000477	490	0.019565	590	0.054913	690	0.011147
395	0.000623	495	0.022778	595	0.054829	695	0.009685
400	0.000823	500	0.026605	600	0.054589	700	0.008387
405	0.001098	505	0.030099	605	0.053702	705	0.007238
410	0.001442	510	0.032854	610	0.052263	710	0.006240
415	0.001971	515	0.035177	615	0.050458	715	0.005381
420	0.002928	520	0.036885	620	0.048159	720	0.004631
425	0.004755	525	0.038444	625	0.045627	725	0.003981
430	0.008009	530	0.039963	630	0.042747	730	0.003423
435	0.013449	535	0.041450	635	0.039813	735	0.002934
440	0.021720	540	0.042959	640	0.036577	740	0.002522
445	0.036060	545	0.044578	645	0.033414	745	0.002174
450	0.057021	550	0.045999	650	0.030304	750	0.001864
455	0.062994	555	0.047500	655	0.027234	755	0.001612
460	0.043580	560	0.048801	660	0.024402	760	0.001399
465	0.030295	565	0.050098	665	0.021574	765	0.001206
470	0.024653	570	0.051420	670	0.019068	770	0.001039
475	0.018705	575	0.052570	675	0.016784	775	0.000897
						780	0.000775





IES TM-30 Details





Test Report Number: LLIA001116-001B

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA

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: 24.8 °C

Test Procedure: Tested in accordance with the applicable sections of:
LM-79-08, LM-78-07, LM-58-13, ANSI_ANSLG C78.377-2017,
ANSI C82-77-10:2014, TM-30-15

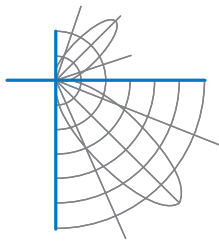
Significance: The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

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

LLIA001116-001C

Electrical Test Report

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA



Performance Summary

Voltage	277.0 Vac
Current	0.1116 A
Power	29.49 W
Frequency	60.00 Hz
Power Factor	0.954
Current THD	11.8 %
Ambient Temperature:	24.4 °C

Prepared For:

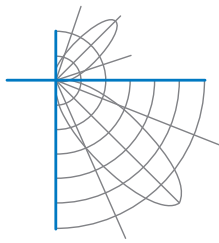
Precision Architectural Lighting
4830 Timber Creek Drive
Houston, TX 77017, USA

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: 05/10/2019

Report date: 05/17/2019

Electrical Report Template V1-2



Report of Test

LLIA001116-001D

ISTM Report

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA



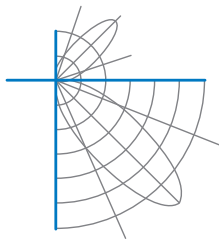
Prepared For:

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: 05/29/2019

Report date: 05/30/2019



Test Report Number: LLIA001116-001D

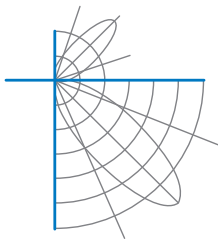
Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA

- 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:** Surface/Wall
- 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 vertically, on a simulated wall. 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: LLIA001116-001D

Catalog Number: MLP2-IASY-HO-K40-80-4-W-FDC-FXXX-UNV

Wall mounted, extruded aluminum housing, formed white enamel LED tray/reflector, frosted plastic enclosure.

One PAL-Lighting LED board with 92 LEDs

One Osram Optotronic OTi30/120-277/1A0 DIM L LED driver labeled as 720mA

Electrical Measurements

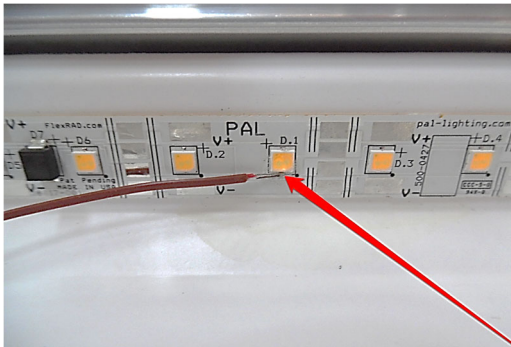
Voltage	120.0 Vac
Current	0.2343 A
Power	28.03 W
Frequency	60.0 Hz
Power Factor	0.997
Current THD	5.6 %
Driver #1 Output	0.718 Adc

Temperature Measurements

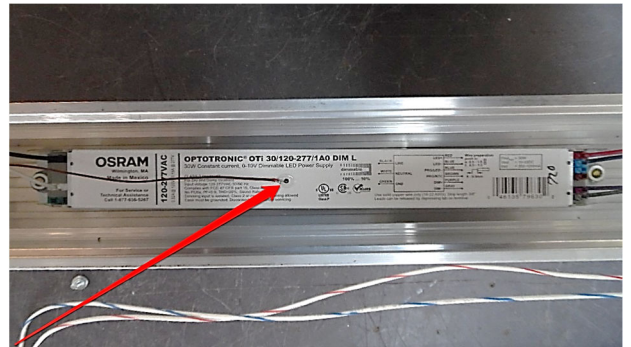
LED #1 (Ts)	56.0°C	Driver #1 (Tc)	48.4°C
-------------	--------	----------------	--------

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

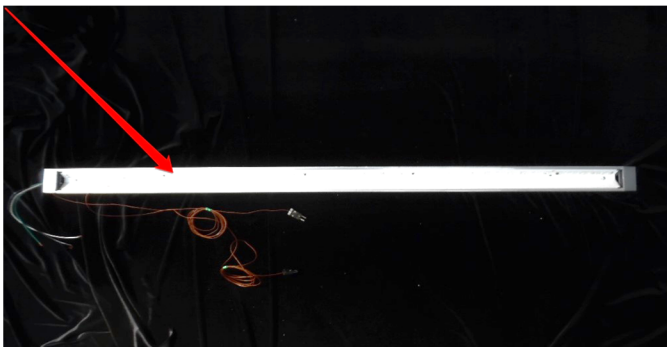
Measured Ambient Temperature (Ta) 23.3°C



LED Thermocouple Location



Driver Thermocouple Location



Selected LED Location