

Report of Test

LLIA000537-019

Catalog Number: DXS-I/D-XHO-K40-4-X-OC6/LOH-X-120

Pendant mounted, extruded aluminum housing, 60/40 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

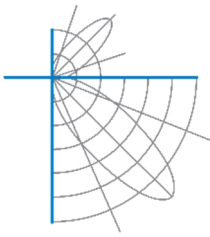
One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4134A, 49.35W, 0.995PF, 8.58%THD(i)



Performance Summary

Total Light Output	5616 lm
Luminaire Power	49.4 W
Luminous Efficacy	113.7 lm/W

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



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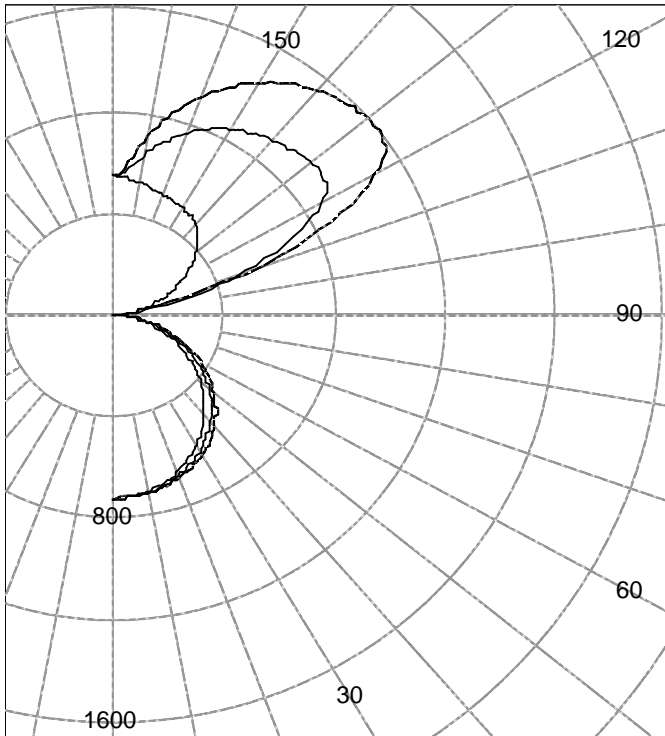
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	8323	9011	9472
55.0	7899	8744	9317
65.0	7342	8196	8883
75.0	6443	7274	8012
85.0	5287	5526	5703

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	1	1	1	1	1	
95.0	34	50	21	15	13	39
100.0	89	133	118	79	76	
105.0	141	206	330	256	212	268
110.0	192	308	513	583	579	
115.0	242	424	719	826	871	619
120.0	292	528	875	1020	1097	
125.0	343	601	934	1098	1198	755
130.0	391	648	933	1097	1204	
135.0	431	676	918	1079	1183	673
140.0	461	685	898	1056	1152	
145.0	479	678	872	1023	1109	528
150.0	489	659	841	979	1053	
155.0	497	635	805	927	986	360
160.0	505	611	760	865	911	
165.0	516	588	704	789	824	196
170.0	529	568	636	692	716	
175.0	540	553	574	592	600	57
180.0	546	546	546	546	546	

ZONAL FLUX AND PERCENTAGES

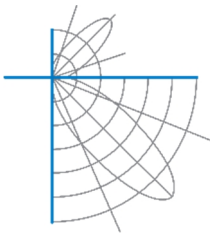
Zone	Flux (lm)	% Lamp	% Luminaire
180-150	613	N / A	10.9
180-140	1141	N / A	20.3
180-120	2568	N / A	45.7
180-90	3494	N / A	62.2
140-90	2352	N / A	41.9
120-90	925	N / A	16.5
90-0	2122	N / A	37.8
180-0	5616	N / A	100.0

Total Light Output = 5,616 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 3-Feb-2016
Date of report 11-Feb-2016



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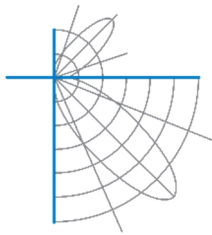
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240 White LEDs

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120.0Vac, 60.0Hz, 0.4134A, 49.35W, 0.995PF, 8.58% THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	721	721	721	721	721
2.5	721	718	722	722	719
5.0	718	715	720	720	717
7.5	713	711	716	718	715
10.0	707	705	711	713	711
12.5	698	697	705	708	706
15.0	688	688	697	701	699
17.5	677	677	688	693	692
20.0	664	665	677	684	684
22.5	649	651	665	674	674
25.0	633	636	651	662	663
27.5	616	619	637	649	651
30.0	597	601	621	635	637
32.5	577	581	604	619	622
35.0	556	561	585	602	605
37.5	534	540	565	583	587
40.0	510	517	544	563	568
42.5	486	494	522	541	547
45.0	461	470	499	518	524
47.5	435	445	474	493	500
50.0	409	420	448	467	474
52.5	382	393	421	440	447
55.0	355	367	393	411	418
57.5	327	339	363	381	389
60.0	299	311	333	350	358
62.5	271	283	302	319	326
65.0	243	253	271	287	294
67.5	214	224	240	255	261
70.0	186	194	208	222	228
72.5	158	165	178	190	195
75.0	131	136	147	158	162
77.5	104	109	118	127	130
80.0	80	83	90	97	99
82.5	57	59	63	67	69
85.0	36	36	38	39	39
87.5	17	16	13	11	11
90.0	1	1	1	1	1



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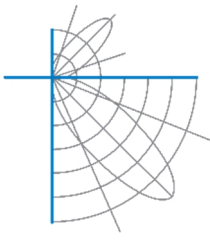
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	1	1	1	1	1
92.5	12	10	3	3	3
95.0	34	50	21	15	13
97.5	61	99	53	43	41
100.0	89	133	118	79	76
102.5	115	165	221	138	122
105.0	141	206	330	256	212
107.5	167	254	419	427	378
110.0	192	308	513	583	579
112.5	217	366	617	706	738
115.0	242	424	719	826	871
117.5	267	479	808	935	996
120.0	292	528	875	1020	1097
122.5	318	569	916	1074	1165
125.0	343	601	934	1098	1198
127.5	368	627	937	1103	1207
130.0	391	648	933	1097	1204
132.5	412	664	926	1089	1194
135.0	431	676	918	1079	1183
137.5	447	683	908	1068	1169
140.0	461	685	898	1056	1152
142.5	471	683	885	1041	1132
145.0	479	678	872	1023	1109
147.5	485	669	857	1002	1083
150.0	489	659	841	979	1053
152.5	493	647	824	954	1021
155.0	497	635	805	927	986
157.5	500	623	784	897	950
160.0	505	611	760	865	911
162.5	510	599	734	829	869
165.0	516	588	704	789	824
167.5	523	578	671	743	772
170.0	529	568	636	692	716
172.5	535	560	603	640	656
175.0	540	553	574	592	600
177.5	542	549	554	558	560
180.0	546	546	546	546	546



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Coefficients Of Utilization - Zonal Cavity Method

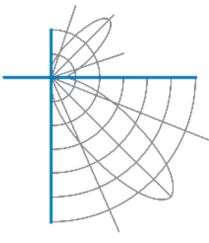
Effective Floor Cavity Reflectance 0.20

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
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	83	86	82	79	76	67	64	62	53	51	50	39	38	38	31
2	86	79	73	68	78	72	66	62	58	55	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	25	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	16	13	11
9	48	36	28	23	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	19	25	20	17	20	16	14	16	13	11	9

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	20.0	7.39	7.87
8.0	11.3	9.86	10.50
10.0	7.2	12.32	13.12
12.0	5.0	14.79	15.75
14.0	3.7	17.25	18.37
16.0	2.8	19.72	21.00



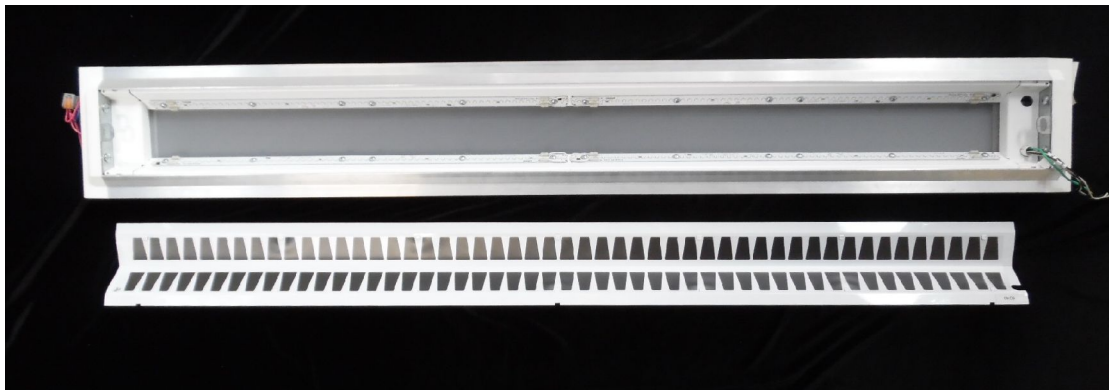
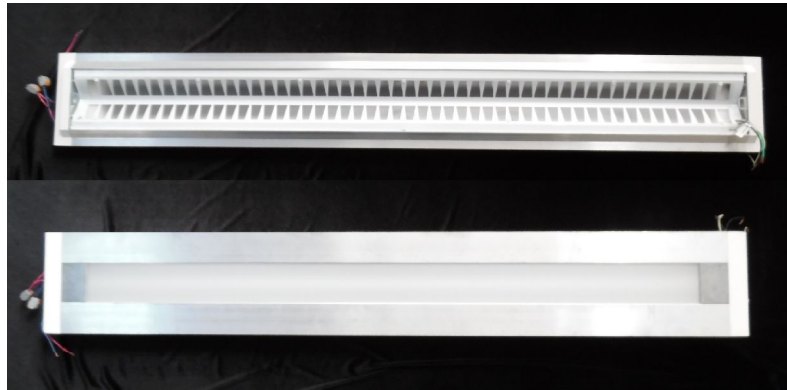
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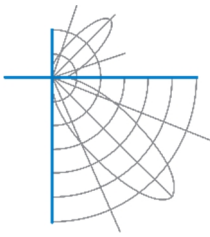
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Test Distance 9.5 m
Test Temperature 24.7 °C

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 C78.377:2011, ANSI C82.77:2002.

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.