

Report of Test

LLIA000537-005

Catalog Number: DXS-I/D-XMO-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

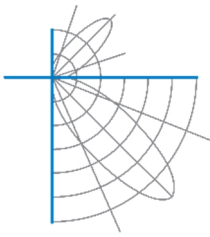
One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L Driver: 2750 558-640 (MO)
120.0Vac, 60.0Hz, 0.2559A, 30.59W, 0.996PF, 5.35%THD(i)



Performance Summary

Total Light Output	3711 lm
Luminaire Power	30.6 W
Luminous Efficacy	121.3 lm/W

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



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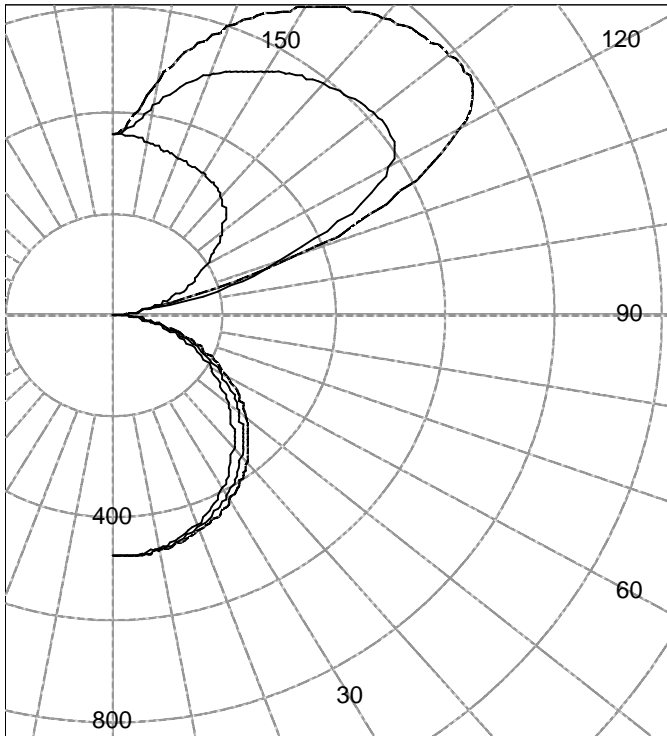
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	0	1	1	1	0	
95.0	23	33	13	9	8	26
100.0	59	88	79	52	50	
105.0	93	136	220	174	143	178
110.0	127	203	339	388	389	
115.0	159	279	475	546	575	409
120.0	193	348	579	674	725	
125.0	226	397	617	726	793	499
130.0	258	428	617	725	797	
135.0	284	446	607	713	782	444
140.0	303	452	593	697	762	
145.0	315	447	575	676	733	349
150.0	322	434	555	647	696	
155.0	326	418	531	612	651	238
160.0	331	401	501	570	601	
165.0	338	386	463	520	543	129
170.0	346	371	417	455	471	
175.0	353	361	375	387	393	37
180.0	356	356	356	356	356	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
180-150	404	N / A	10.9
180-140	752	N / A	20.3
180-120	1695	N / A	45.7
180-90	2308	N / A	62.2
140-90	1556	N / A	41.9
120-90	613	N / A	16.5
90-0	1403	N / A	37.8
180-0	3711	N / A	100.0

Total Light Output = 3,711 lm

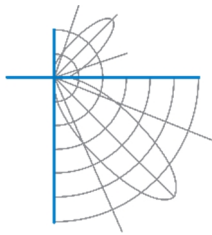
AVERAGE LUMINANCE (cd/m²)

Gamma	C0	C45	C90
45.0	7413	6575	5266
55.0	7518	6494	4999
65.0	7282	6145	4644
75.0	6514	5415	4064
85.0	3983	3793	3286

Signed:

Michael L. Grather
Authorized Signatory

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



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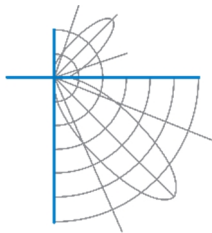
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	476	476	476	476	476
2.5	476	474	477	477	475
5.0	475	473	476	476	474
7.5	471	470	473	474	472
10.0	467	466	470	471	470
12.5	461	461	466	468	466
15.0	455	455	461	463	462
17.5	447	448	455	458	457
20.0	439	439	447	452	452
22.5	429	430	439	446	446
25.0	418	420	431	438	438
27.5	407	409	421	429	430
30.0	395	397	410	420	421
32.5	381	384	399	409	411
35.0	367	371	387	398	400
37.5	352	357	374	385	388
40.0	337	342	360	372	375
42.5	321	326	345	358	362
45.0	304	311	330	342	347
47.5	287	294	313	326	331
50.0	270	277	296	309	313
52.5	252	260	278	291	296
55.0	234	242	259	272	277
57.5	216	224	240	252	257
60.0	198	206	220	232	237
62.5	179	187	200	211	216
65.0	160	168	179	190	194
67.5	141	148	158	169	173
70.0	123	128	138	147	151
72.5	104	109	117	126	129
75.0	86	90	97	105	107
77.5	69	72	78	84	86
80.0	53	55	59	64	66
82.5	37	39	42	44	45
85.0	24	24	25	26	26
87.5	11	10	9	7	7
90.0	0	1	1	1	0



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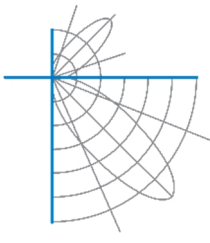
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	1	1	1	0
92.5	8	6	2	2	2
95.0	23	33	13	9	8
97.5	40	66	35	28	27
100.0	59	88	79	52	50
102.5	76	109	149	93	81
105.0	93	136	220	174	143
107.5	110	168	277	288	257
110.0	127	203	339	388	389
112.5	143	241	407	467	488
115.0	159	279	475	546	575
117.5	176	316	534	618	658
120.0	193	348	579	674	725
122.5	209	375	605	710	770
125.0	226	397	617	726	793
127.5	242	414	620	729	800
130.0	258	428	617	725	797
132.5	272	438	612	720	790
135.0	284	446	607	713	782
137.5	295	451	600	706	773
140.0	303	452	593	697	762
142.5	310	451	585	687	749
145.0	315	447	575	676	733
147.5	319	441	566	662	715
150.0	322	434	555	647	696
152.5	324	426	543	630	674
155.0	326	418	531	612	651
157.5	328	410	517	592	626
160.0	331	401	501	570	601
162.5	334	393	483	547	573
165.0	338	386	463	520	543
167.5	342	378	441	489	509
170.0	346	371	417	455	471
172.5	350	366	394	420	430
175.0	353	361	375	387	393
177.5	355	358	361	364	365
180.0	356	356	356	356	356



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Coefficients Of Utilization - Zonal Cavity Method

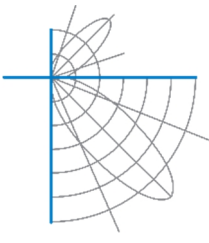
Effective Floor Cavity Reflectance 0.20

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
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	13.2	7.39	7.88
8.0	7.4	9.86	10.50
10.0	4.8	12.32	13.13
12.0	3.3	14.78	15.75
14.0	2.4	17.25	18.38
16.0	1.9	19.71	21.00



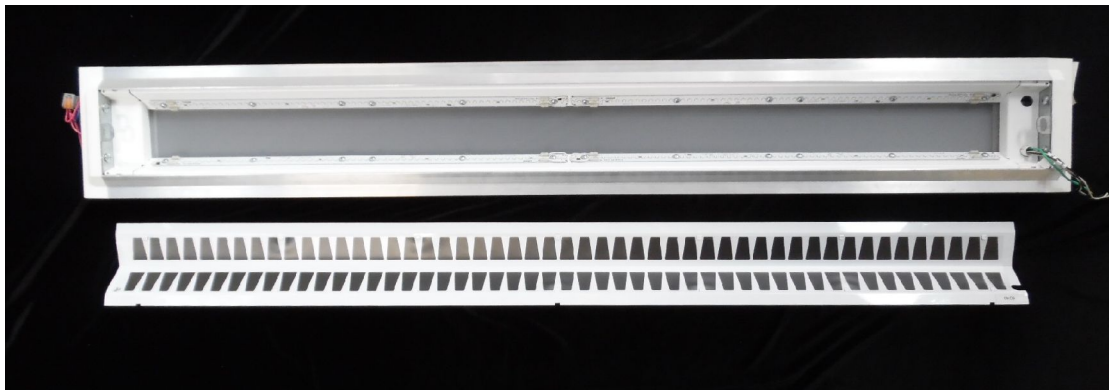
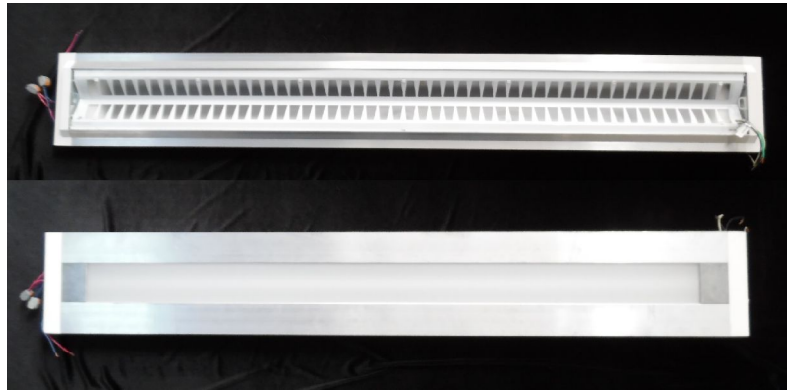
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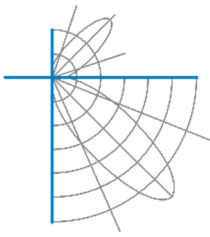
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Test Distance 9.5 m
Test Temperature 25.4 °C

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 C78.377:2011, 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.

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