

# Report of Test

## LLIA000537-013

Catalog Number: DXS-I/D-XHO-K40-4-X-OC0/LOH-X-120

Pendant mounted, extruded aluminum housing, 0/100 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

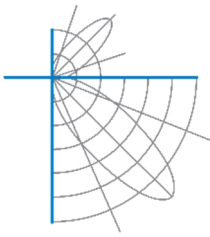
One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)  
120.0Vac, 60.0Hz, 0.4131A, 49.32W, 0.995PF, 8.63%THD(i)



### Performance Summary

Total Light Output	4567 lm
Luminaire Power	49.3 W
Luminous Efficacy	92.6 lm/W

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



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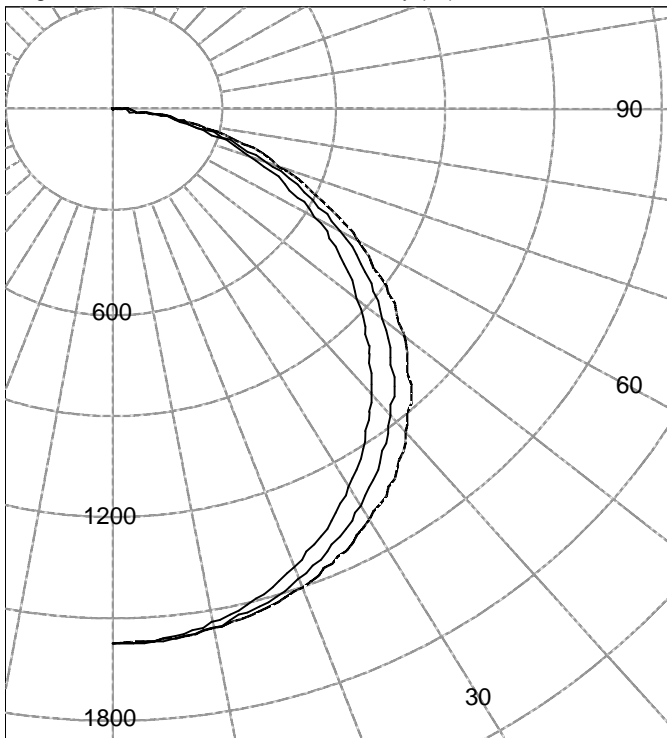
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1575	1575	1575	1575	1575	
5.0	1567	1561	1571	1573	1567	149
10.0	1539	1537	1552	1558	1554	
15.0	1496	1498	1519	1532	1531	428
20.0	1438	1444	1474	1495	1499	
25.0	1368	1376	1417	1446	1454	651
30.0	1285	1297	1347	1385	1397	
35.0	1192	1208	1267	1310	1326	789
40.0	1089	1110	1175	1222	1241	
45.0	980	1006	1074	1122	1141	822
50.0	868	896	962	1008	1027	
55.0	752	781	840	882	901	744
60.0	634	661	710	749	767	
65.0	513	537	575	611	625	567
70.0	392	410	441	470	481	
75.0	276	288	311	333	340	328
80.0	169	175	189	202	206	
85.0	77	77	79	81	82	90
90.0	0	0	0	0	0	

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

Gamma	C0	C45	C90
45.0	17714	19408	20623
55.0	16749	18703	20082
65.0	15516	17399	18904
75.0	13614	15347	16800
85.0	11296	11624	12028

**ZONAL FLUX AND PERCENTAGES**

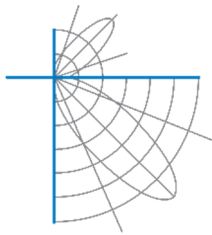
Zone	Flux (lm)	% Lamp	% Luminaire
0-30	1228	N / A	26.9
0-40	2017	N / A	44.2
0-60	3582	N / A	78.4
0-90	4567	N / A	100.0
40-90	2550	N / A	55.8
60-90	985	N / A	21.6
90-180	0	N / A	0.0
0-180	4567	N / A	100.0

Total Light Output = 4,567 lm

Signed:

Michael L. Grather  
Authorized Signatory

Date of test 3-Feb-2016  
Date of report 10-Feb-2016



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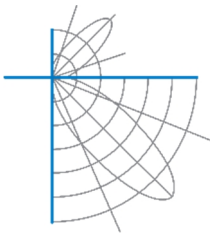
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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1575	1575	1575	1575	1575
2.5	1574	1568	1576	1576	1570
5.0	1567	1561	1571	1573	1567
7.5	1555	1551	1563	1567	1562
10.0	1539	1537	1552	1558	1554
12.5	1520	1519	1537	1546	1544
15.0	1496	1498	1519	1532	1531
17.5	1469	1472	1498	1515	1516
20.0	1438	1444	1474	1495	1499
22.5	1405	1411	1447	1472	1478
25.0	1368	1376	1417	1446	1454
27.5	1328	1338	1384	1417	1427
30.0	1285	1297	1347	1385	1397
32.5	1239	1254	1308	1349	1363
35.0	1192	1208	1267	1310	1326
37.5	1141	1160	1223	1268	1285
40.0	1089	1110	1175	1222	1241
42.5	1035	1059	1126	1174	1193
45.0	980	1006	1074	1122	1141
47.5	924	951	1019	1066	1086
50.0	868	896	962	1008	1027
52.5	810	839	902	946	966
55.0	752	781	840	882	901
57.5	693	722	776	817	835
60.0	634	661	710	749	767
62.5	573	600	643	680	696
65.0	513	537	575	611	625
67.5	453	474	508	541	553
70.0	392	410	441	470	481
72.5	333	348	375	401	410
75.0	276	288	311	333	340
77.5	221	230	249	266	272
80.0	169	175	189	202	206
82.5	121	124	133	140	143
85.0	77	77	79	81	82
87.5	37	33	29	26	24
90.0	0	0	0	0	0



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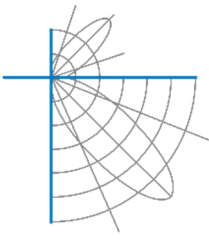
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	74	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	43.7	7.29	7.90
8.0	24.6	9.73	10.53
10.0	15.7	12.16	13.16
12.0	10.9	14.59	15.80
14.0	8.0	17.02	18.43
16.0	6.2	19.45	21.06



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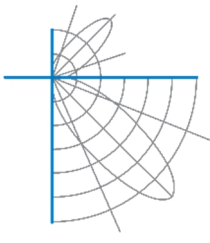
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**Test Distance** 9.5 m  
**Test Temperature** 25.0 °C

**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 C78.377:2011, 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.