

# Report of Test

## LLIA000529-003

Catalog Number: LMS-I-MO-K35-PH-SE-X-X-120

Pendant mounted, white perforated housing with translucent white acrylic diffuser, no enclosure

120 White LEDs

One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750558-640 (MO)

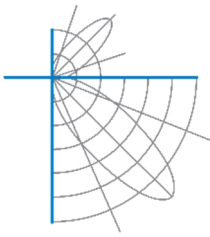
120.0Vac, 60.0Hz, 0.2658A, 31.83W, 0.996PF, 5.74%THD(i)



### Performance Summary

Total Light Output	3536 lm
Luminaire Power	31.8 W
Luminous Efficacy	111.2 lm/W

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



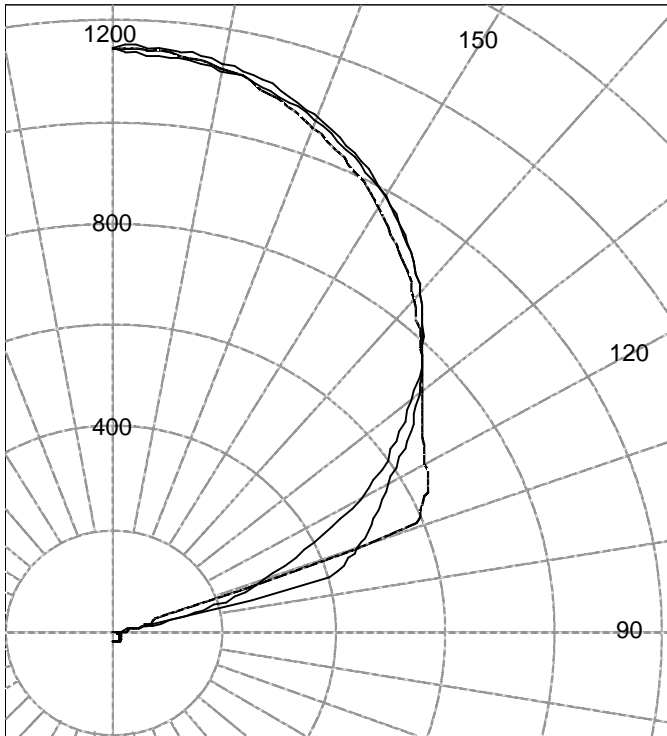
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	22	22	22	22	22	
5.0	22	22	23	23	22	2
10.0	22	22	23	23	23	
15.0	22	22	22	22	22	6
20.0	21	21	21	22	22	
25.0	20	20	21	21	21	9
30.0	18	19	20	20	21	
35.0	17	17	18	19	20	11
40.0	15	16	17	18	19	
45.0	13	14	15	17	18	12
50.0	10	12	14	15	16	
55.0	8	10	12	14	15	11
60.0	7	8	10	13	15	
65.0	5	6	9	12	13	9
70.0	4	5	8	11	12	
75.0	3	4	7	9	10	7
80.0	2	4	5	7	8	
85.0	2	3	4	6	6	5
90.0	0	1	2	3	4	

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

Gamma	C0	C45	C90
45.0	61	62	67
55.0	49	56	66
65.0	43	54	67
75.0	42	53	65
85.0	60	53	62

**ZONAL FLUX AND PERCENTAGES**

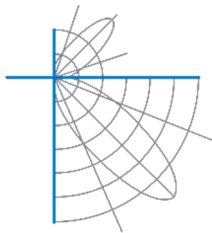
Zone	Flux (lm)	% Lamp	% Luminaire
0-30	18	N / A	0.5
0-40	29	N / A	0.8
0-60	52	N / A	1.5
0-90	72	N / A	2.0
40-90	43	N / A	1.2
60-90	21	N / A	0.6
90-180	3464	N / A	98.0
0-180	3536	N / A	100.0

Total Light Output = 3,536 lm

Signed:

Michael L. Grather  
Authorized Signatory

Date of test 5-Jan-2016  
Date of report 7-Jan-2016



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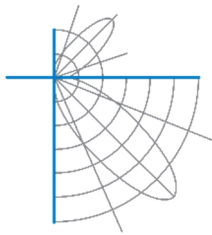
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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	22	22	22	22	22
2.5	22	22	22	22	22
5.0	22	22	23	23	22
7.5	22	22	23	23	23
10.0	22	22	23	23	23
12.5	22	22	22	22	22
15.0	22	22	22	22	22
17.5	21	21	22	22	22
20.0	21	21	21	22	22
22.5	20	21	21	21	22
25.0	20	20	21	21	21
27.5	19	20	20	21	21
30.0	18	19	20	20	21
32.5	17	18	19	20	20
35.0	17	17	18	19	20
37.5	16	17	18	19	19
40.0	15	16	17	18	19
42.5	14	15	16	18	18
45.0	13	14	15	17	18
47.5	11	13	15	16	17
50.0	10	12	14	15	16
52.5	9	11	13	15	16
55.0	8	10	12	14	15
57.5	7	9	11	14	15
60.0	7	8	10	13	15
62.5	6	7	10	13	14
65.0	5	6	9	12	13
67.5	5	5	9	11	12
70.0	4	5	8	11	12
72.5	4	4	8	10	11
75.0	3	4	7	9	10
77.5	3	4	6	8	9
80.0	2	4	5	7	8
82.5	2	4	5	6	7
85.0	2	3	4	6	6
87.5	1	3	4	5	5
90.0	0	1	2	3	4



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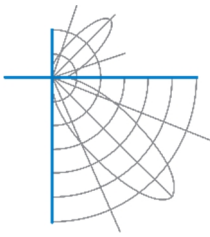
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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	1	2	3	4
92.5	12	17	23	27	28
95.0	33	30	32	36	37
97.5	64	104	48	46	45
100.0	102	205	54	59	61
102.5	141	240	59	65	66
105.0	188	275	408	69	70
107.5	237	316	445	194	76
110.0	292	354	471	558	471
112.5	345	399	500	582	601
115.0	404	441	522	604	625
117.5	459	486	546	621	641
120.0	519	535	575	638	655
122.5	571	579	615	655	669
125.0	617	624	651	676	684
127.5	661	668	686	703	705
130.0	705	717	722	733	730
132.5	755	759	758	764	758
135.0	795	798	793	796	788
137.5	832	835	831	827	818
140.0	867	870	865	859	849
142.5	899	903	899	890	879
145.0	930	935	931	919	907
147.5	959	966	961	947	935
150.0	985	994	988	976	962
152.5	1009	1019	1013	1001	989
155.0	1031	1042	1036	1024	1013
157.5	1051	1063	1057	1045	1034
160.0	1070	1082	1077	1065	1054
162.5	1086	1098	1095	1084	1073
165.0	1099	1112	1111	1103	1093
167.5	1111	1124	1125	1119	1111
170.0	1120	1133	1135	1131	1125
172.5	1128	1141	1142	1140	1135
175.0	1133	1146	1147	1146	1142
177.5	1136	1150	1150	1150	1146
180.0	1149	1149	1149	1149	1149



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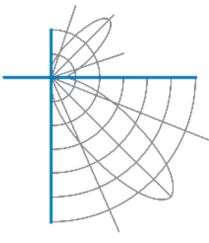
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Coefficients Of Utilization - Zonal Cavity Method																		
Effective Floor Cavity Reflectance 0.20																		
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	96	96	96	96	82	82	82	82	57	57	57	33	33	33	12	12	12	2
1	87	83	79	76	74	71	68	66	49	48	46	29	28	27	10	10	10	2
2	79	72	67	62	68	62	58	54	43	40	38	25	24	23	9	9	8	1
3	72	63	57	51	61	55	49	45	38	34	32	22	21	19	8	8	7	1
4	66	56	49	43	56	48	42	38	33	30	27	20	18	16	7	7	6	1
5	60	49	42	37	51	43	36	32	30	26	23	18	16	14	6	6	5	1
6	55	44	37	31	47	38	32	27	26	23	20	16	14	12	6	5	4	1
7	51	39	32	27	43	34	28	24	24	20	17	14	12	10	5	4	4	1
8	47	35	28	23	40	31	25	21	21	18	15	13	11	9	5	4	3	1
9	43	32	25	21	37	28	22	18	19	16	13	12	9	8	4	4	3	0
10	40	29	22	18	34	25	20	16	18	14	11	11	8	7	4	3	3	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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	0.6	8.23	7.28
8.0	0.3	10.98	9.71
10.0	0.2	13.72	12.14
12.0	0.2	16.47	14.56
14.0	0.1	19.21	16.99
16.0	0.1	21.96	19.42



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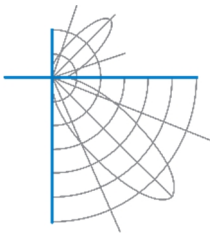
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**Test Distance** 9.5 m  
**Test Temperature** 24.5 °C

**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.