

Report of Test

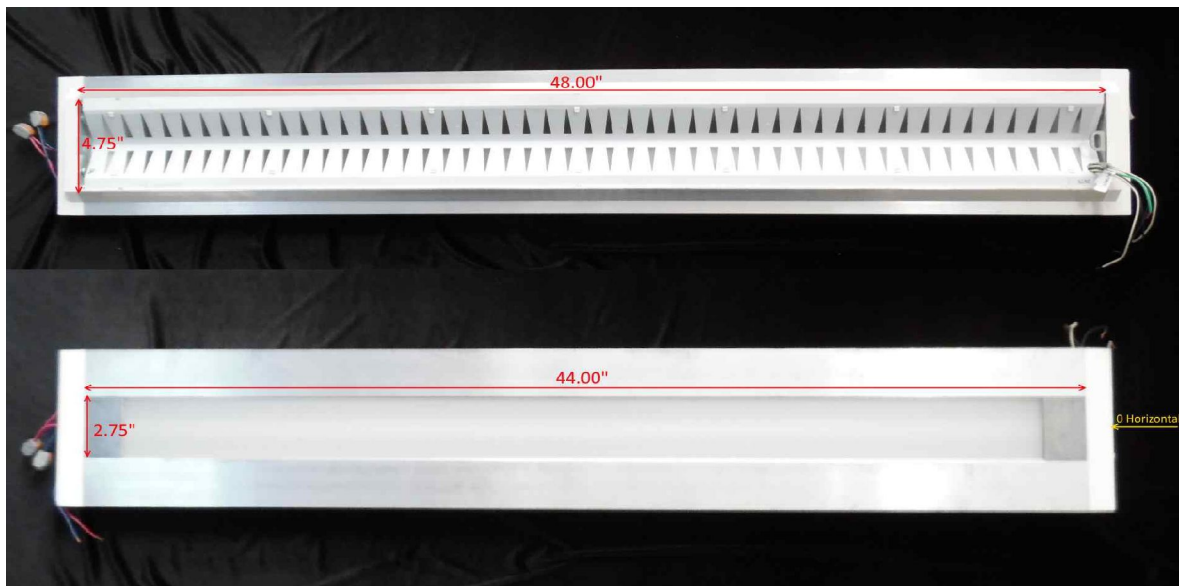
LLIA000537-015

Catalog Number: DXS-I/D-XHO-K40-4-X-OC2/LOH-X-120

Pendant mounted, extruded aluminum housing, 25/75 distribution panel installed on top side of fixture, frosted acrylic lens on bottom side.

240 White LEDs

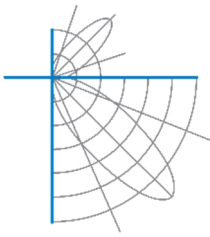
One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-1000 (HO)
120.0Vac, 60.0Hz, 0.4131A, 49.32W, 0.995PF, 8.62%THD(i)



Performance Summary

Total Light Output	4681 lm
Luminaire Power	49.3 W
Luminous Efficacy	94.9 lm/W

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



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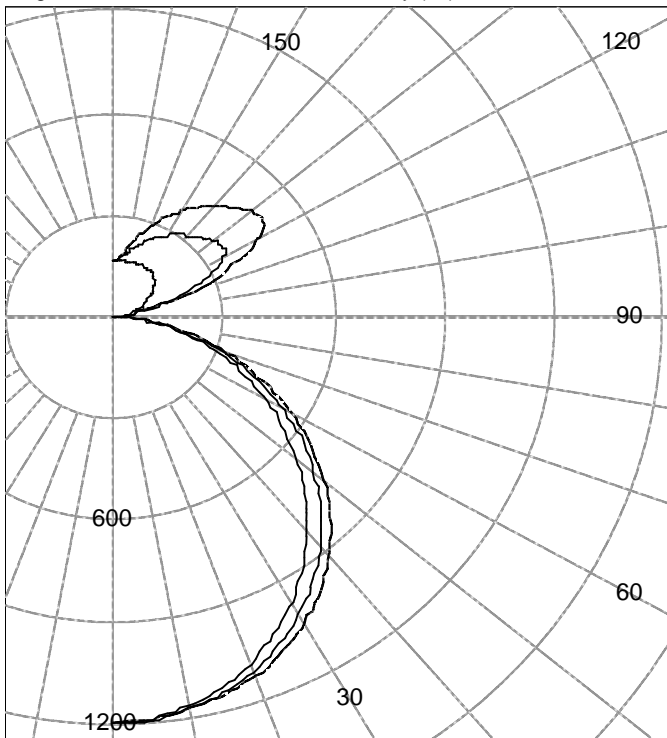
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	1194	1194	1194	1194	1194	
5.0	1188	1184	1192	1192	1188	113
10.0	1167	1165	1176	1180	1175	
15.0	1134	1134	1150	1158	1155	324
20.0	1089	1091	1113	1127	1126	
25.0	1034	1039	1067	1086	1087	490
30.0	970	977	1012	1035	1039	
35.0	898	908	948	975	981	590
40.0	820	832	876	906	913	
45.0	736	752	798	827	836	610
50.0	650	668	712	739	749	
55.0	561	580	619	644	654	548
60.0	471	490	522	545	554	
65.0	381	397	422	442	450	415
70.0	291	302	322	339	346	
75.0	203	211	225	239	244	238
80.0	124	127	136	144	147	
85.0	55	55	56	57	58	64
90.0	0	0	0	0	0	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	13299	14417	15099
55.0	12504	13800	14570
65.0	11516	12749	13615
75.0	10033	11128	12024
85.0	8136	8244	8472

ZONAL FLUX AND PERCENTAGES

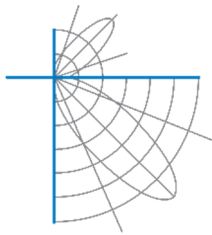
Zone	Flux (lm)	% Lamp	% Luminaire
0-30	926	N / A	19.8
0-40	1516	N / A	32.4
0-60	2673	N / A	57.1
0-90	3390	N / A	72.4
40-90	1874	N / A	40.0
60-90	717	N / A	15.3
90-180	1291	N / A	27.6
0-180	4681	N / A	100.0

Total Light Output = 4,681 lm

Signed:

Michael L. Grather
Authorized Signatory

Date of test 10-Feb-2016
Date of report 11-Feb-2016



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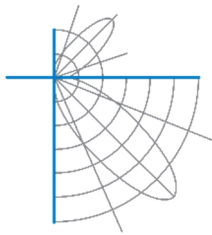
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240 White LEDs

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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	1194	1194	1194	1194	1194
2.5	1194	1189	1195	1196	1191
5.0	1188	1184	1192	1192	1188
7.5	1179	1176	1185	1187	1183
10.0	1167	1165	1176	1180	1175
12.5	1152	1151	1164	1170	1166
15.0	1134	1134	1150	1158	1155
17.5	1113	1114	1133	1143	1142
20.0	1089	1091	1113	1127	1126
22.5	1063	1066	1091	1107	1108
25.0	1034	1039	1067	1086	1087
27.5	1003	1009	1041	1062	1064
30.0	970	977	1012	1035	1039
32.5	935	944	981	1006	1011
35.0	898	908	948	975	981
37.5	860	871	913	942	948
40.0	820	832	876	906	913
42.5	778	793	838	867	876
45.0	736	752	798	827	836
47.5	693	710	756	784	793
50.0	650	668	712	739	749
52.5	606	624	667	693	702
55.0	561	580	619	644	654
57.5	517	536	571	595	605
60.0	471	490	522	545	554
62.5	426	444	472	494	502
65.0	381	397	422	442	450
67.5	336	350	371	391	398
70.0	291	302	322	339	346
72.5	246	256	273	288	294
75.0	203	211	225	239	244
77.5	162	168	180	191	194
80.0	124	127	136	144	147
82.5	88	90	95	100	101
85.0	55	55	56	57	58
87.5	26	23	20	17	16
90.0	0	0	0	0	0



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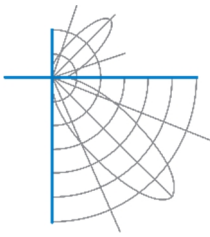
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Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	0	0	0	0
92.5	5	3	2	2	2
95.0	14	19	8	5	5
97.5	24	40	21	16	15
100.0	35	52	51	33	31
102.5	45	65	97	65	57
105.0	54	81	136	125	106
107.5	64	99	168	194	183
110.0	73	118	205	243	253
112.5	82	137	246	289	304
115.0	91	157	286	337	357
117.5	100	175	320	383	409
120.0	109	191	345	419	453
122.5	118	202	358	442	483
125.0	127	210	361	451	496
127.5	135	215	356	448	495
130.0	143	219	348	438	485
132.5	150	221	340	426	472
135.0	155	222	331	414	458
137.5	160	222	322	402	444
140.0	163	221	314	389	429
142.5	165	219	305	375	413
145.0	167	217	296	361	396
147.5	168	214	287	346	379
150.0	168	210	277	330	361
152.5	168	206	267	314	342
155.0	168	202	256	298	322
157.5	168	197	244	281	303
160.0	168	192	233	265	283
162.5	167	187	221	248	264
165.0	167	183	210	232	244
167.5	167	178	200	216	225
170.0	167	175	190	201	208
172.5	167	172	182	188	191
175.0	167	169	175	177	178
177.5	168	168	169	169	169
180.0	167	167	167	167	167



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Coefficients Of Utilization - Zonal Cavity Method

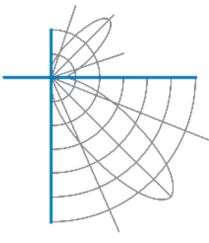
Effective Floor Cavity Reflectance 0.20

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	68	66	64	61
2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	50
3	85	75	67	61	80	71	64	59	64	59	54	58	54	50	52	49	46	42
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	42	39	36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	31
6	66	53	44	38	62	51	43	37	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	57	46	38	33	42	35	31	38	33	28	35	30	26	24
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17

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	33.2	7.26	7.75
8.0	18.7	9.68	10.33
10.0	11.9	12.10	12.91
12.0	8.3	14.52	15.50
14.0	6.1	16.95	18.08
16.0	4.7	19.37	20.66



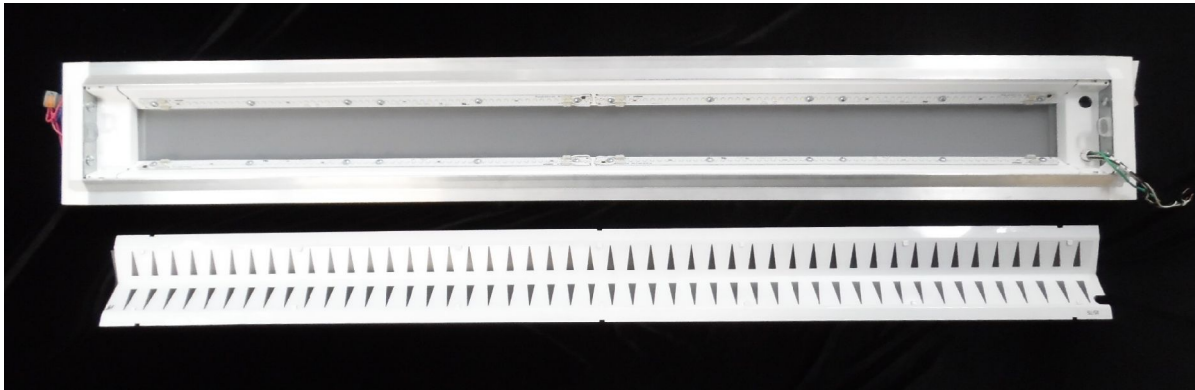
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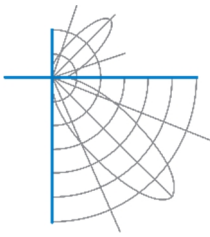
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Test Distance 9.5 m
Test Temperature 24.9 °C

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.