

# Report of Test

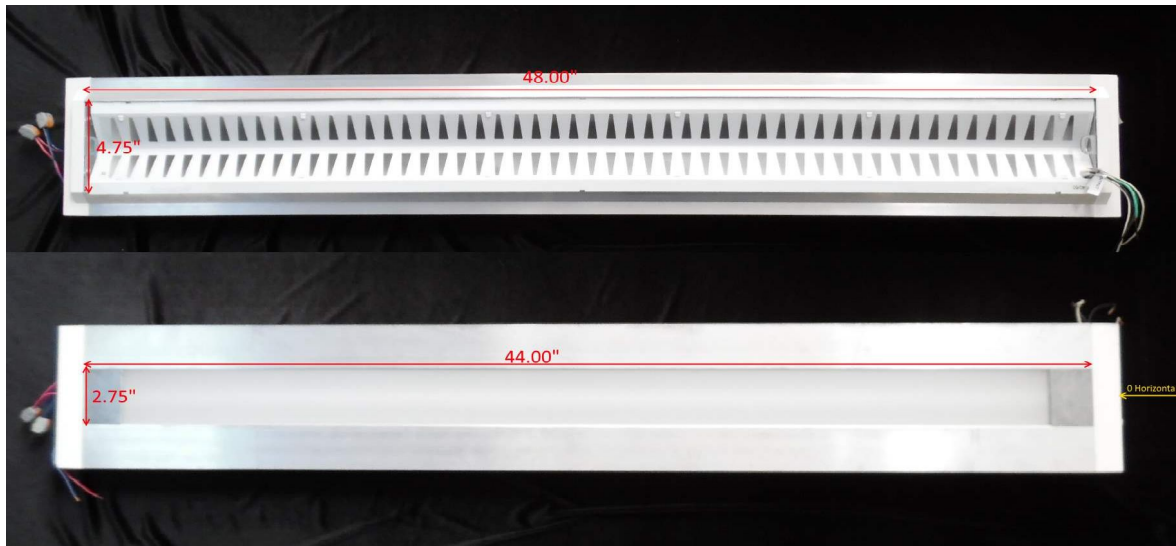
## LLIA000537-007

Catalog Number: DXS-I/D-XMO-K40-4-X-OC4/LOH-X-120

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

240 White LEDs

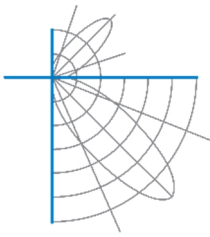
One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L Driver: 2750 558-640 (MO)  
120.0Vac, 60.0Hz, 0.2556A, 30.55W, 0.996PF, 5.39%THD(i)



### Performance Summary

Total Light Output	3280 lm
Luminaire Power	30.5 W
Luminous Efficacy	107.5 lm/W

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



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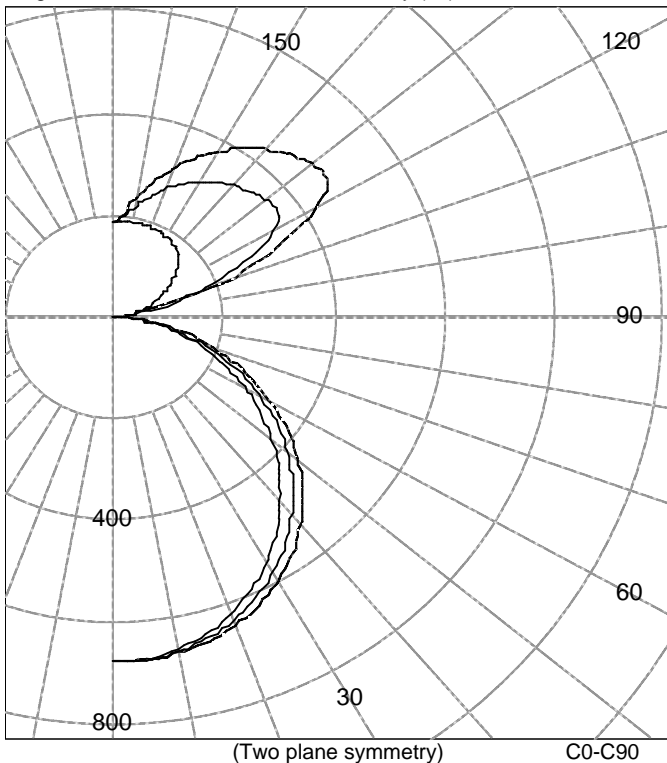
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	0	0	0	0	0	
95.0	14	19	8	6	5	16
100.0	35	51	50	35	33	
105.0	55	79	128	116	100	108
110.0	74	117	194	225	231	
115.0	93	159	273	316	327	236
120.0	112	197	337	401	421	
125.0	131	222	362	442	471	293
130.0	150	236	359	438	470	
135.0	164	243	349	422	452	256
140.0	175	246	338	403	431	
145.0	181	244	324	380	405	195
150.0	185	239	307	355	376	
155.0	187	231	288	327	344	129
160.0	188	220	266	297	310	
165.0	188	209	242	266	276	68
170.0	189	199	218	233	239	
175.0	189	192	198	202	205	19
180.0	190	190	190	190	190	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
180-150	216	N / A	6.6
180-140	411	N / A	12.5
180-120	960	N / A	29.3
180-90	1320	N / A	40.3
140-90	909	N / A	27.7
120-90	360	N / A	11.0
90-0	1960	N / A	59.7
180-0	3280	N / A	100.0

Total Light Output = 3,280 lm

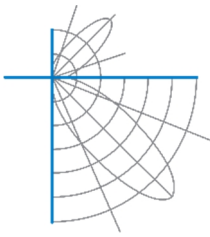
**AVERAGE LUMINANCE (cd/m<sup>2</sup>)**

Gamma	C0	C45	C90
45.0	7650	8316	8764
55.0	7222	8000	8520
65.0	6679	7438	8029
75.0	5854	6569	7164
85.0	4867	5018	5179

Signed:

Michael L. Grather  
Authorized Signatory

Date of test 8-Feb-2016  
Date of report 11-Feb-2016



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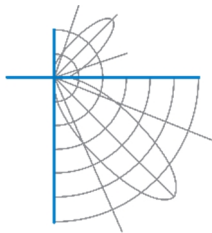
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240 White LEDs

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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	680	680	680	680	680
2.5	680	677	681	681	678
5.0	677	675	679	680	677
7.5	672	670	675	677	674
10.0	665	664	670	673	671
12.5	657	656	664	667	666
15.0	647	647	656	661	660
17.5	635	636	646	653	653
20.0	622	624	636	644	644
22.5	607	610	624	633	635
25.0	591	594	610	621	624
27.5	574	578	596	608	611
30.0	556	560	580	594	598
32.5	536	541	563	578	582
35.0	515	521	544	560	566
37.5	493	500	525	542	548
40.0	471	479	504	522	528
42.5	447	456	483	500	507
45.0	423	433	460	478	485
47.5	399	410	437	454	461
50.0	374	386	412	429	436
52.5	350	361	386	403	410
55.0	324	336	359	375	382
57.5	299	310	332	347	354
60.0	273	284	303	319	325
62.5	247	258	275	289	296
65.0	221	231	246	260	266
67.5	195	203	217	230	235
70.0	169	176	189	200	205
72.5	143	149	161	171	175
75.0	119	124	133	142	145
77.5	95	99	107	114	116
80.0	73	75	81	87	88
82.5	52	54	57	60	61
85.0	33	33	34	35	35
87.5	16	15	13	11	10
90.0	0	0	0	0	0



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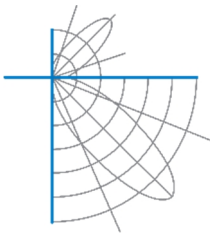
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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	0	0	0	0	0
92.5	5	4	1	1	1
95.0	14	19	8	6	5
97.5	24	39	22	17	17
100.0	35	51	50	35	33
102.5	45	64	92	64	57
105.0	55	79	128	116	100
107.5	64	97	158	180	168
110.0	74	117	194	225	231
112.5	83	138	234	269	277
115.0	93	159	273	316	327
117.5	102	180	309	362	377
120.0	112	197	337	401	421
122.5	122	212	354	429	454
125.0	131	222	362	442	471
127.5	141	230	362	444	475
130.0	150	236	359	438	470
132.5	158	240	355	431	462
135.0	164	243	349	422	452
137.5	170	245	344	413	442
140.0	175	246	338	403	431
142.5	178	246	331	392	418
145.0	181	244	324	380	405
147.5	183	242	316	368	391
150.0	185	239	307	355	376
152.5	186	235	298	341	360
155.0	187	231	288	327	344
157.5	188	226	278	312	327
160.0	188	220	266	297	310
162.5	188	215	255	282	293
165.0	188	209	242	266	276
167.5	188	204	230	249	258
170.0	189	199	218	233	239
172.5	189	195	207	216	221
175.0	189	192	198	202	205
177.5	189	191	192	193	193
180.0	190	190	190	190	190



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**Coefficients Of Utilization - Zonal Cavity Method**

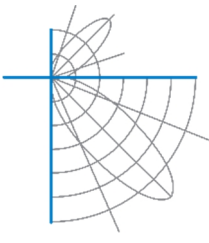
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	95	91	88	93	89	86	82	78	75	73	67	65	63	57	56	55	50
2	91	83	77	71	84	78	72	67	68	63	60	59	55	52	50	48	46	41
3	83	73	65	59	77	68	61	56	60	54	50	52	48	44	44	41	39	35
4	75	64	56	50	70	60	53	47	53	47	42	46	41	38	39	36	33	30
5	69	57	49	43	64	54	46	41	47	41	36	41	36	33	35	32	29	26
6	64	51	43	37	59	48	41	35	42	36	32	37	32	28	32	28	25	22
7	59	46	38	32	55	44	36	31	38	32	28	34	29	25	29	25	22	20
8	55	42	34	29	51	40	32	27	35	29	25	31	26	22	27	23	20	18
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	25	21	18	16
10	48	35	28	23	44	33	26	22	30	24	20	26	21	18	23	19	16	14

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	18.9	7.30	7.82
8.0	10.6	9.73	10.43
10.0	6.8	12.16	13.04
12.0	4.7	14.60	15.64
14.0	3.5	17.03	18.25
16.0	2.7	19.46	20.86



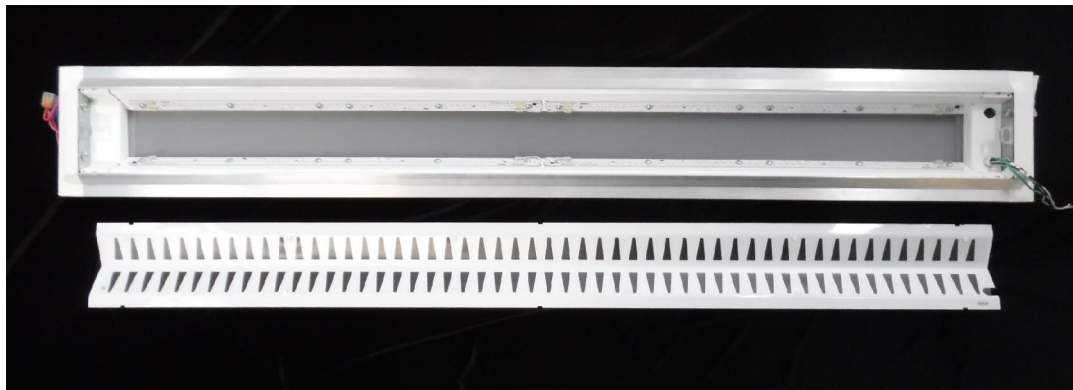
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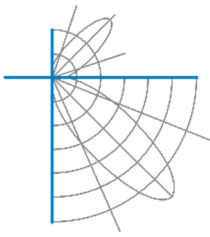
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**Test Distance** 9.5 m  
**Test Temperature** 24.6 °C

**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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