

# Report of Test

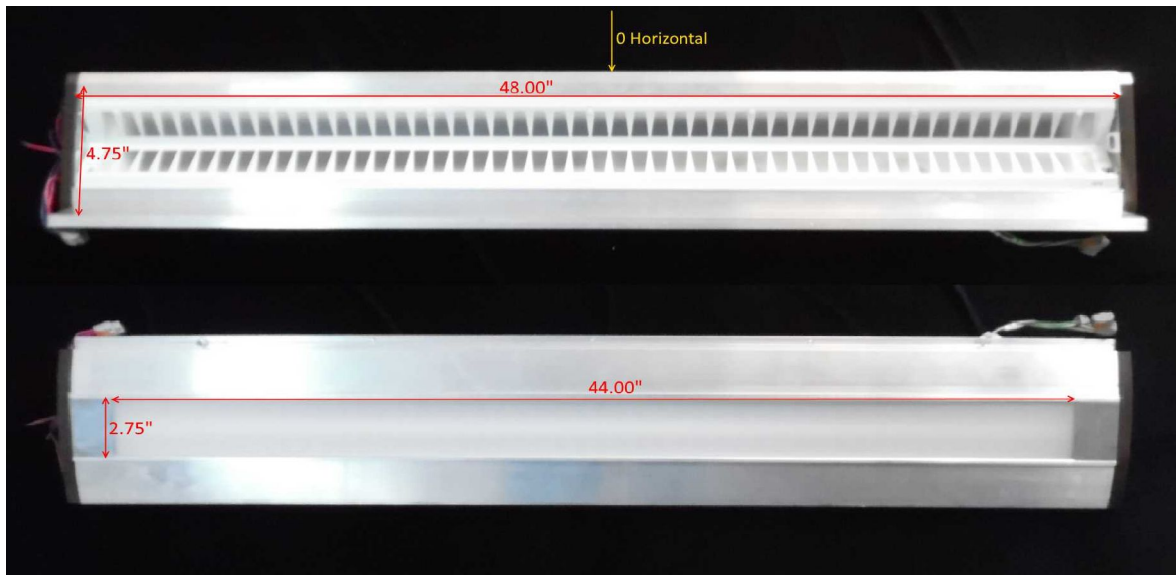
## LLIA000537-003

Catalog Number: DXP-I/D-XHO-K40-4-X-OC6/LOH-X-120

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

120 White LEDs

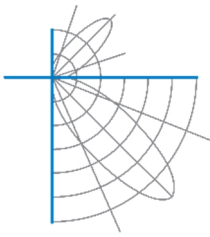
One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L Driver: 2750 558-600 (HO)  
120.0Vac, 60.0Hz, 0.2685A, 32.09W, 0.996PF, 5.76%THD(i)



### Performance Summary

Total Light Output	3616 lm
Luminaire Power	32.1 W
Luminous Efficacy	112.6 lm/W

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



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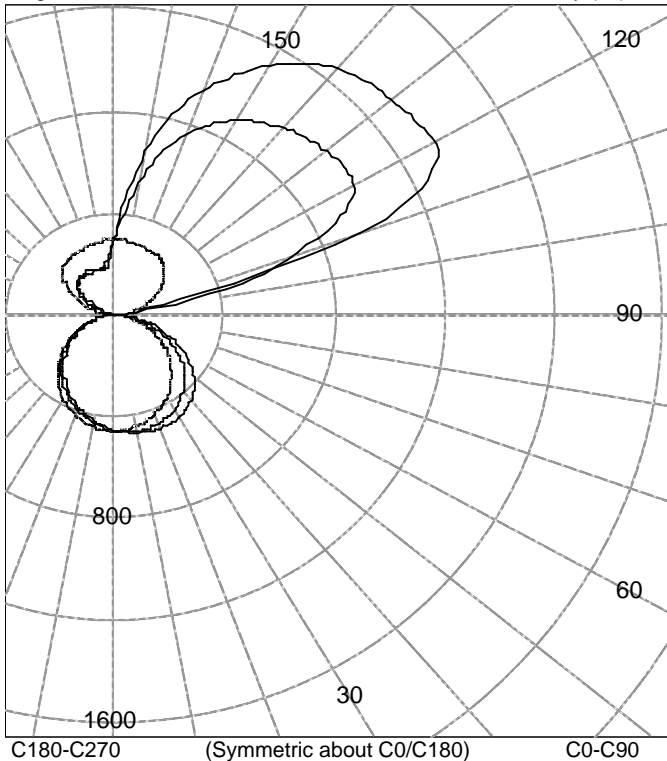
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Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



**INTENSITY SUMMARY (cd)**

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
90.0	3	2	2	1	0	
95.0	17	19	26	66	23	26
100.0	85	94	174	163	59	
105.0	345	422	480	242	94	202
110.0	960	924	711	349	127	
115.0	1262	1154	910	462	158	440
120.0	1350	1235	1007	550	187	
125.0	1335	1226	1020	610	216	478
130.0	1315	1211	1006	648	241	
135.0	1298	1197	987	666	261	424
140.0	1264	1168	959	663	273	
145.0	1209	1120	924	643	279	332
150.0	1133	1056	880	610	282	
155.0	1042	977	825	569	284	223
160.0	939	886	752	520	286	
165.0	816	772	653	465	289	116
170.0	650	615	528	406	293	
175.0	453	436	398	348	296	31
180.0	296	296	296	296	296	

**ZONAL FLUX AND PERCENTAGES**

Zone	Flux (lm)	% Lamp	% Luminaire
180-150	370	N / A	10.2
180-140	703	N / A	19.4
180-120	1604	N / A	44.4
180-90	2272	N / A	62.8
140-90	1569	N / A	43.4
120-90	668	N / A	18.5
90-0	1344	N / A	37.2
180-0	3616	N / A	100.0

Total Light Output = 3,616 lm

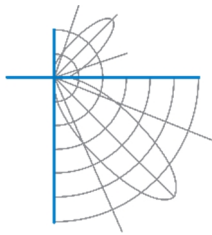
**AVERAGE LUMINANCE (cd/m<sup>2</sup>)**

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 3-Feb-2016



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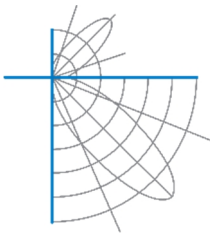
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on top side of fixture, frosted acrylic lens on bottom side.

120 White LEDs

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120.0Vac, 60.0Hz, 0.2685A, 32.09W, 0.996PF, 5.76% THD(i)

**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	455	455	455	455	455
2.5	459	461	459	455	455
5.0	464	465	462	456	454
7.5	469	469	464	455	451
10.0	472	472	465	454	446
12.5	475	474	465	451	441
15.0	477	475	464	447	434
17.5	478	475	462	442	427
20.0	478	475	459	436	419
22.5	477	473	455	429	410
25.0	475	470	449	420	400
27.5	472	466	443	411	389
30.0	468	460	435	401	377
32.5	462	454	426	389	365
35.0	455	446	416	377	351
37.5	446	436	405	364	337
40.0	436	425	393	350	323
42.5	424	412	379	335	307
45.0	410	398	364	320	292
47.5	395	382	348	304	275
50.0	377	364	330	287	259
52.5	359	345	311	269	242
55.0	338	325	292	251	224
57.5	315	303	271	233	207
60.0	292	280	249	214	190
62.5	267	255	227	194	172
65.0	241	230	203	174	154
67.5	214	204	180	154	135
70.0	187	178	156	133	118
72.5	160	152	133	113	100
75.0	132	126	110	93	82
77.5	105	100	87	74	66
80.0	79	75	66	56	50
82.5	53	51	45	39	36
85.0	27	27	26	24	22
87.5	3	4	6	9	10
90.0	3	2	2	1	0



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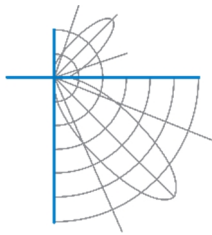
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**Intensity data (cd)**

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	3	2	2	1	0
92.5	4	4	4	13	9
95.0	17	19	26	66	23
97.5	48	50	70	124	41
100.0	85	94	174	163	59
102.5	157	201	326	199	77
105.0	345	422	480	242	94
107.5	651	698	597	292	111
110.0	960	924	711	349	127
112.5	1151	1056	820	407	142
115.0	1262	1154	910	462	158
117.5	1327	1213	973	510	173
120.0	1350	1235	1007	550	187
122.5	1347	1234	1020	584	202
125.0	1335	1226	1020	610	216
127.5	1324	1217	1014	632	229
130.0	1315	1211	1006	648	241
132.5	1307	1205	997	659	252
135.0	1298	1197	987	666	261
137.5	1284	1185	974	667	267
140.0	1264	1168	959	663	273
142.5	1239	1147	942	655	276
145.0	1209	1120	924	643	279
147.5	1173	1090	903	628	280
150.0	1133	1056	880	610	282
152.5	1089	1018	854	590	283
155.0	1042	977	825	569	284
157.5	992	934	791	545	285
160.0	939	886	752	520	286
162.5	882	834	706	493	287
165.0	816	772	653	465	289
167.5	740	699	593	435	291
170.0	650	615	528	406	293
172.5	551	525	462	377	294
175.0	453	436	398	348	296
177.5	365	358	342	322	297
180.0	296	296	296	296	296



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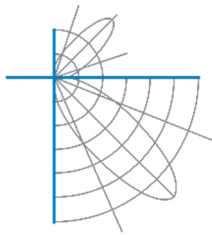
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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
0.0	455	455	455	455	455
2.5	455	451	451	450	447
5.0	454	447	445	443	440
7.5	451	442	439	436	432
10.0	446	436	432	428	424
12.5	441	429	424	420	415
15.0	434	421	415	410	406
17.5	427	412	406	401	396
20.0	419	403	396	391	386
22.5	410	393	386	380	375
25.0	400	382	375	368	364
27.5	389	371	363	357	352
30.0	377	358	351	344	340
32.5	365	346	339	332	327
35.0	351	333	326	319	314
37.5	337	319	312	305	300
40.0	323	305	299	291	287
42.5	307	290	284	277	273
45.0	292	276	270	262	258
47.5	275	261	255	247	242
50.0	259	245	239	231	227
52.5	242	229	224	215	212
55.0	224	213	207	200	196
57.5	207	197	191	184	180
60.0	190	181	174	167	165
62.5	172	164	158	151	149
65.0	154	147	141	135	133
67.5	135	130	124	119	117
70.0	118	112	108	104	102
72.5	100	95	91	88	87
75.0	82	79	76	73	72
77.5	66	63	61	59	58
80.0	50	48	46	45	44
82.5	36	34	33	31	31
85.0	22	21	20	19	19
87.5	10	9	8	8	8
90.0	0	0	0	0	0



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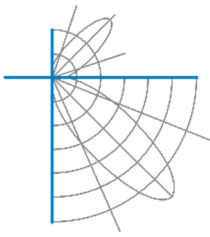
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**Intensity data (cd)**

Gamma	C-Plane				
	C90	C112.5	C135	C157.5	C180
90.0	0	0	0	0	0
92.5	9	1	0	0	0
95.0	23	2	1	0	0
97.5	41	6	1	0	0
100.0	59	17	2	1	0
102.5	77	31	5	1	0
105.0	94	41	16	2	1
107.5	111	60	32	10	4
110.0	127	74	58	25	17
112.5	142	89	84	43	33
115.0	158	104	96	73	55
117.5	173	118	116	111	90
120.0	187	131	132	124	126
122.5	202	142	144	137	136
125.0	216	151	154	155	150
127.5	229	159	163	164	165
130.0	241	166	169	172	174
132.5	252	171	175	178	180
135.0	261	176	180	183	186
137.5	267	179	183	188	190
140.0	273	182	186	191	194
142.5	276	184	188	193	196
145.0	279	185	189	195	198
147.5	280	187	189	195	198
150.0	282	188	189	195	198
152.5	283	189	187	193	196
155.0	284	191	186	191	194
157.5	285	193	184	188	191
160.0	286	197	184	185	187
162.5	287	202	184	182	183
165.0	289	208	186	181	181
167.5	291	216	190	182	180
170.0	293	227	198	187	183
172.5	294	240	211	197	193
175.0	296	256	231	217	212
177.5	297	275	259	249	244
180.0	296	296	296	296	296



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**Coefficients Of Utilization - Zonal Cavity Method**

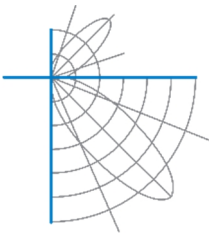
Effective Floor Cavity Reflectance 0.20

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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1		95	90	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37	31
2		86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	32	31	26
3		78	69	62	56	71	63	57	51	51	46	43	40	37	34	30	28	26	22
4		72	61	53	47	65	55	49	43	45	40	36	36	32	29	27	24	22	18
5		66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6		60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7		56	43	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8		52	39	32	26	47	36	29	25	30	24	21	24	20	17	18	15	13	11
9		48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10		45	33	26	21	40	30	24	19	25	20	17	20	16	14	15	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	12.6	7.91	7.41
8.0	7.1	10.54	9.88
10.0	4.5	13.18	12.34
12.0	3.2	15.81	14.81
14.0	2.3	18.45	17.28
16.0	1.8	21.09	19.75



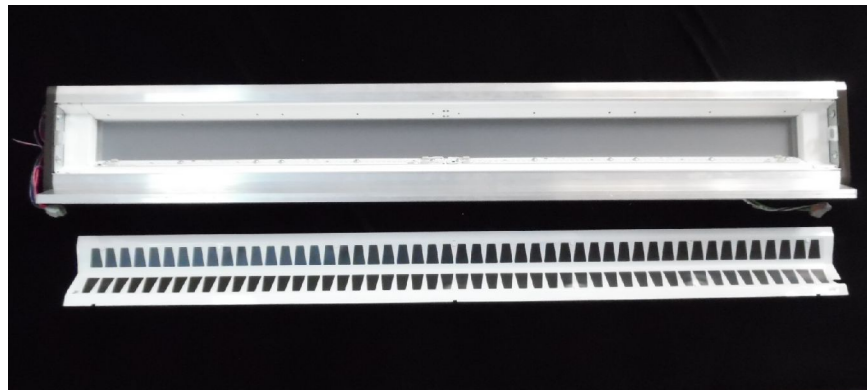
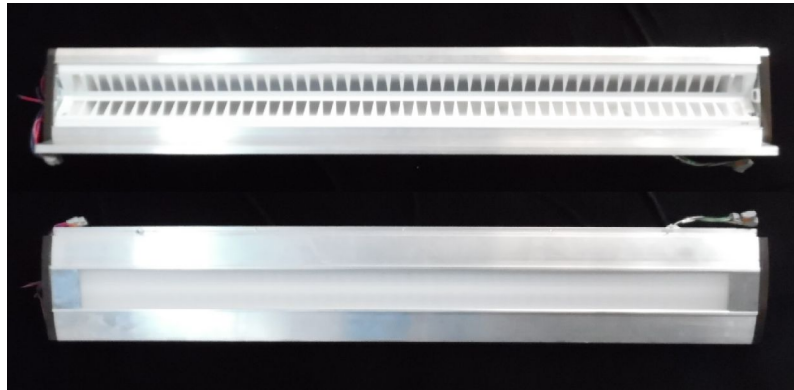
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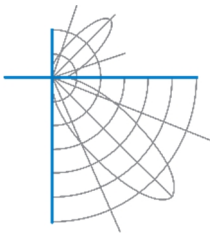
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**Test Distance**            9.5 m  
**Test Temperature**      24.4 °C

**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.

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.