



Report of Test

LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)



Performance Summary

Total Light Output	3106 lm
Luminaire Power	46.4 W
Luminous Efficacy	66.9 lm/W

PREPARED FOR : Lumetta, Inc, 33 Minnesota Avenue, Warwick, RI 02888, USA



Test Report No. LLIA000901-034

Catalog Number: P53012/F11/D61/L412

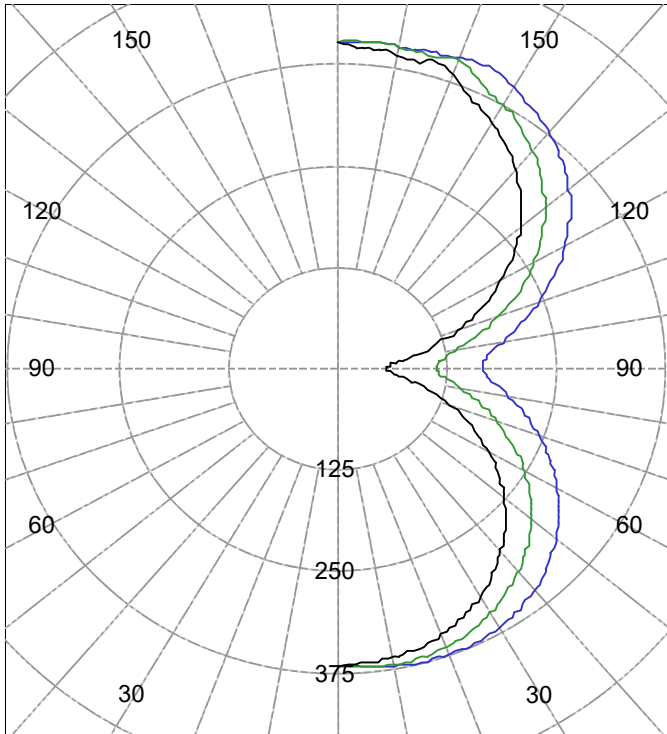
Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)

Legend: C0-Black, C45-Green, C90-Blue (cd)



(Two plane symmetry) C0-C90

INTENSITY SUMMARY (cd)

Gamma	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	365	365	365	365	365	
5.0	363	365	368	369	367	35
10.0	360	363	369	372	371	
15.0	355	359	368	373	373	104
20.0	347	352	363	372	374	
25.0	337	342	357	368	372	164
30.0	324	330	347	362	367	
35.0	308	315	336	354	360	210
40.0	290	298	321	343	351	
45.0	269	279	305	330	339	235
50.0	246	257	287	314	324	
55.0	222	234	266	296	307	237
60.0	196	209	244	276	288	
65.0	168	182	220	254	267	216
70.0	140	155	194	231	244	
75.0	111	127	168	206	221	176
80.0	85	100	143	183	198	
85.0	63	79	123	163	177	134
90.0	54	69	112	151	166	

AVERAGE LUMINANCE (cd / m²)

Gamma	C0	C45	C90
45.0	328	308	413
55.0	274	265	380
65.0	218	222	346
75.0	157	178	310
85.0	101	142	282

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	303	N / A	9.7
0-40	512	N / A	16.5
0-60	985	N / A	31.7
0-90	1511	N / A	48.7
40-90	999	N / A	32.2
60-90	527	N / A	17.0
90-180	1594	N / A	51.3
0-180	3106	N / A	100.0

Total Light Output = 3,106 lm

Spacing Criterion: 0-180 1.3
Spacing Criterion: 90-270 1.5

Signed:

Authorized Signatory

Date of test 2-Feb-2018
Date of report 2-Feb-2018



Test Report No. LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
0.0	365	365	365	365	365
2.5	363	365	367	366	365
5.0	363	365	368	369	367
7.5	362	364	369	371	370
10.0	360	363	369	372	371
12.5	358	362	369	373	373
15.0	355	359	368	373	373
17.5	352	356	366	373	374
20.0	347	352	363	372	374
22.5	343	348	360	370	373
25.0	337	342	357	368	372
27.5	331	337	352	366	370
30.0	324	330	347	362	367
32.5	316	323	342	358	364
35.0	308	315	336	354	360
37.5	299	307	329	349	356
40.0	290	298	321	343	351
42.5	280	289	314	337	345
45.0	269	279	305	330	339
47.5	258	268	296	323	332
50.0	246	257	287	314	324
52.5	234	246	277	306	316
55.0	222	234	266	296	307
57.5	209	221	255	287	298
60.0	196	209	244	276	288
62.5	182	196	232	265	277
65.0	168	182	220	254	267
67.5	154	169	207	243	255
70.0	140	155	194	231	244
72.5	126	141	181	219	232
75.0	111	127	168	206	221
77.5	98	113	155	195	209
80.0	85	100	143	183	198
82.5	73	88	132	173	187
85.0	63	79	123	163	177
87.5	56	72	115	155	169
90.0	54	69	112	151	166



Test Report No. LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)

Intensity data (cd)

Gamma	C-Plane				
	C0	C22.5	C45	C67.5	C90
90.0	54	69	112	151	166
92.5	56	71	114	153	167
95.0	62	76	118	156	170
97.5	72	86	128	165	178
100.0	86	99	140	176	190
102.5	101	113	153	189	202
105.0	117	129	168	203	216
107.5	134	145	183	218	230
110.0	150	161	198	232	244
112.5	167	177	213	246	258
115.0	184	193	228	260	272
117.5	199	209	242	274	285
120.0	215	224	257	287	298
122.5	229	239	270	299	310
125.0	243	253	283	311	322
127.5	257	267	295	323	333
130.0	270	280	307	334	343
132.5	282	292	318	344	353
135.0	294	303	328	352	362
137.5	305	314	338	361	369
140.0	315	324	347	368	376
142.5	325	333	356	375	382
145.0	334	342	363	381	388
147.5	343	350	370	387	393
150.0	351	357	375	391	400
152.5	357	364	380	397	407
155.0	364	369	386	406	410
157.5	371	379	397	410	409
160.0	384	390	403	407	406
162.5	392	397	402	403	405
165.0	392	395	400	402	404
167.5	389	393	400	402	403
170.0	392	397	402	403	403
172.5	396	399	404	404	404
175.0	396	399	404	404	404
177.5	397	400	404	403	401
180.0	402	402	402	402	402



Test Number: LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	96	90	86	82	88	83	79	75	69	66	64	57	55	53	45	44	42	37
2	86	78	71	65	79	71	65	60	60	55	51	49	45	42	39	36	34	29
3	78	68	60	53	71	62	55	49	52	46	42	42	38	35	34	31	28	24
4	71	59	51	44	65	55	47	41	46	40	35	37	33	29	30	26	24	20
5	65	53	44	37	59	48	41	35	41	35	30	33	29	25	26	23	20	17
6	60	47	38	32	54	43	36	30	36	30	26	30	25	22	24	20	18	15
7	55	42	34	28	50	39	31	26	33	27	22	27	22	19	22	18	15	13
8	51	38	30	24	47	35	28	23	30	24	20	25	20	17	20	16	14	11
9	47	35	27	22	43	32	25	20	27	22	18	23	18	15	18	15	12	10
10	44	32	24	19	41	29	23	18	25	19	16	21	16	13	17	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.

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	10.2	7.89	9.00
8.0	5.7	10.53	12.01
10.0	3.7	13.16	15.01
12.0	2.5	15.79	18.01
14.0	1.9	18.42	21.01
16.0	1.4	21.05	24.01



Test Report No. LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)





Test Report No. LLIA000901-034

Catalog Number: P53012/F11/D61/L412

Pendant mounted, formed white enamel steel housing, white "lumenate" outer enclosure with translucent white plastic top and bottom enclosures.

Two white LED modules with clear patterned hemispherical lenses.

One ERP ESP050W-1200-42 LED driver

120.0Vac, 60.00Hz, 0.3925A, 46.44W, 0.986PF, 11.4%THD(i)

Test Distance 9.5 m
Test Temperature 25.3 °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 C78.377:2015, ANSI C82.77-10:2014.

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.