



Report of Test

LLIA000901-019

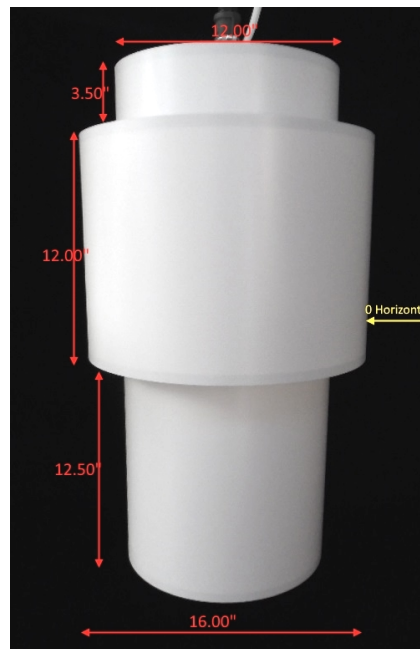
Catalog Number: P5528/F11/D61/L411

Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers
translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%THD(i)



Performance Summary

Total Light Output	1377 lm
Luminaire Power	24.7 W
Luminous Efficacy	55.7 lm/W

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



Test Report No. LLIA000901-019

Catalog Number: P5528/F11/D61/L411

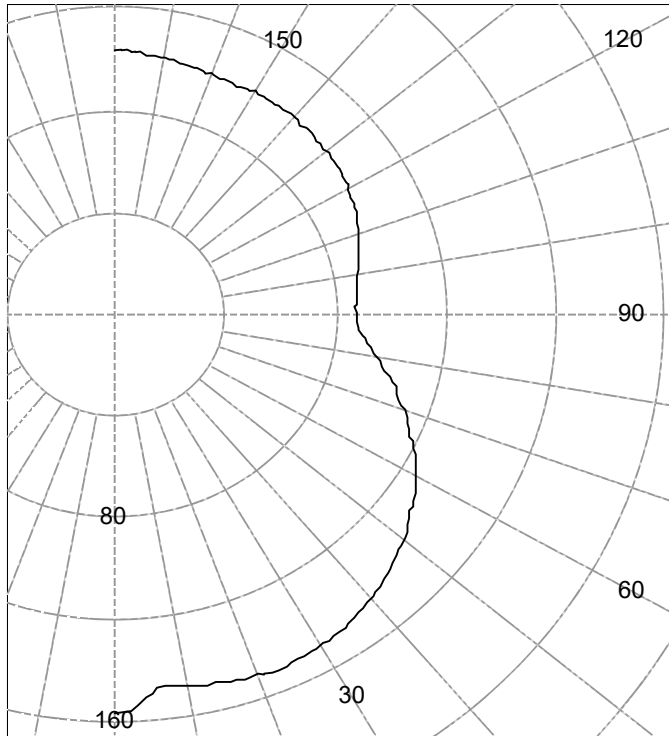
Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%THD(i)

Legend: All planes - Black (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	478
55.0	424
65.0	376
75.0	333
85.0	302

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	157		90	87	
5	149	14	95	88	96
10	148		100	89	
15	150	43	105	92	97
20	151		110	94	
25	151	70	115	96	95
30	150		120	98	
35	148	93	125	99	89
40	145		130	100	
45	141	109	135	100	78
50	137		140	101	
55	132	118	145	101	63
60	126		150	101	
65	119	118	155	100	47
70	112		160	101	
75	104	110	165	101	29
80	96		170	102	
85	90	99	175	103	10
90	87		180	104	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	127	N / A	9.2
0-40	220	N / A	15.9
0-60	447	N / A	32.4
0-90	774	N / A	56.2
40-90	554	N / A	40.2
60-90	327	N / A	23.7
90-180	603	N / A	43.8
0-180	1377	N / A	100.0

Total Light Output = 1,377 lm

Spacing Criterion: 0-180 1.4
Spacing Criterion: 90-270 1.4

Signed:

Authorized Signatory

Date of test 28-Dec-2017
Date of report 8-Jan-2018



Test Report No. LLIA000901-019

Catalog Number: P5528/F11/D61/L411

Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%THD(i)

Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	157		90.0	87	
2.5	155		92.5	87	
5.0	149	14	95.0	88	96
7.5	147		97.5	88	
10.0	148		100.0	89	
12.5	149		102.5	90	
15.0	150	43	105.0	92	97
17.5	151		107.5	93	
20.0	151		110.0	94	
22.5	152		112.5	95	
25.0	151	70	115.0	96	95
27.5	151		117.5	97	
30.0	150		120.0	98	
32.5	149		122.5	99	
35.0	148	93	125.0	99	89
37.5	147		127.5	100	
40.0	145		130.0	100	
42.5	143		132.5	100	
45.0	141	109	135.0	100	78
47.5	139		137.5	101	
50.0	137		140.0	101	
52.5	134		142.5	101	
55.0	132	118	145.0	101	63
57.5	129		147.5	101	
60.0	126		150.0	101	
62.5	122		152.5	101	
65.0	119	118	155.0	100	47
67.5	115		157.5	100	
70.0	112		160.0	101	
72.5	108		162.5	101	
75.0	104	110	165.0	101	29
77.5	100		167.5	102	
80.0	96		170.0	102	
82.5	93		172.5	103	
85.0	90	99	175.0	103	10
87.5	88		177.5	104	
90.0	87		180.0	104	



Test Number: LLIA000901-019

Catalog Number: P5528/F11/D61/L411

Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%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	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	96	90	85	80	88	83	79	74	71	67	64	60	57	54	49	47	45	40
2	86	77	69	63	79	71	64	58	60	55	50	50	46	43	41	38	36	31
3	77	66	57	51	71	61	54	47	52	46	41	43	39	35	36	32	29	25
4	70	58	49	42	65	54	45	39	46	39	34	38	33	29	31	27	24	20
5	64	51	42	35	59	47	39	33	40	34	29	34	29	24	28	24	20	17
6	59	46	37	30	54	42	34	28	36	29	25	30	25	21	25	21	17	14
7	54	41	32	26	50	38	30	24	33	26	21	27	22	18	23	18	15	13
8	50	37	29	23	46	34	27	21	30	23	19	25	20	16	21	16	13	11
9	47	34	26	20	43	31	24	19	27	21	17	23	18	14	19	15	12	10
10	44	31	23	18	40	29	22	17	25	19	15	21	16	13	18	14	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	4.4	8.68	8.68
8.0	2.5	11.57	11.57
10.0	1.6	14.47	14.47
12.0	1.1	17.36	17.36
14.0	0.8	20.26	20.26
16.0	0.6	23.15	23.15



Test Report No. LLIA000901-019

Catalog Number: P5528/F11/D61/L411

Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%THD(i)





Test Report No. LLIA000901-019

Catalog Number: P5528/F11/D61/L411

Pendant mounted, formed steel and aluminum frame with white outer "lumenate" diffusers translucent white plastic top and bottom enclosures.

One white LED module with clear patterned hemispherical lens below.

One ERP ESS030W-0620-42 LED driver

120.0Vac, 60.00Hz, 0.2103A, 24.71W, 0.979PF, 11.7%THD(i)

Test Distance 9.5 m
Test Temperature 25.2 °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.