

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251027067GZU-021

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None

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Report format for LM-79_G

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Report No.: 251027067GZU-021

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. PBL80627XXXEG

Remark: "XXX" represents the color of the appearance.

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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TEST: Electrical and Photometric as required to the IES LM-79 test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number: QGZ251023107.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IES LM-79-24 Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI C78.377-2017 (R2022) Specifications of the Chromaticity of Solid State Lighting Products

DESCRIPTION OF SAMPLE: The client submitted one sample of model PBL80627XXXEG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251027067-027.

MANUFACTURER /FACTORY & ADDRESS: Guangzhou Xiongyi Precision Metalworking Co., Ltd
Hantang Industrial Zone, Langbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China 511450

DATES OF TESTS: 06 February 2026

ISSUED BY: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

TEST LOCATION: Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

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TEST REPORT

SUMMARY

Model Number:	PBLS80627XXXEG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For PBLS80627XXXEG

Criteria	Result
Total Lumen Output	774.8 lm
Total Power	13.1 W
Luminaire Efficacy	59.0 lm/W
S/MH(C0/180)	1.27
S/MH(C90/270)	1.38
Correlated Color Temperature (CCT)	2650 K
Color Rendering Index (CRI)	96
R9	69
Chromaticity Coordinate (x)	0.4659
Chromaticity Coordinate (y)	0.4147
Chromaticity Coordinate (u')	0.2645
Chromaticity Coordinate (v')	0.5298

Remark:

N/A

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TEST REPORT

EQUIPMENT LIST

Equipment Used	Model Number	Control Number
Goniophotometer System	Go-R5000	SA063-16
KONICA MINOLTA - Illuminance meter	CX-2B_WL	SA063-16-01
Standard Lamp	D215S	SA063-16-06
Digital Power Meter	PLM3000	SA063-16-09
AC power source for Goniophotometer	PCR-1000WH	SA063-16-10
Temperature Meter	S500-TH	SA047-182

GENERAL REMARK

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When determining for test conclusion, measurement uncertainty of tests has been considered.

Throughout this report a ☐ comma ☒ point is used as the decimal separator.

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TEST REPORT

TEST METHOD

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IES LM-79

Light Distribution and Output Measurements

Light Distribution and total light output (luminous flux) were measured using a Go-R5000 Type-C Rotating Mirror Goniophotometer. Temperature 25°C and relative humidity of 60% was measured at a position in the testing laboratory.

The lamp rotates only around the fixed vertical axle in the prescribed burning position. The lamp and mirror permit the measurement of luminous intensity at the direction of any horizontal or vertical angle without tilting the lamp. The lamp was allowed to stabilize before measurements were made.

Chromaticity Measurements

Chromaticity was measured using a 2 meters integrating sphere spectral lamp measurement system, 4 π geometry, with an interior coating reflectance no less than 95 %. Temperature was measured at a position inside the sphere shielded from direct light. Relative humidity of 65% was measured at a position in the testing laboratory.

Spectral radiant flux measurements were made using spectroradiometer attached to the detector port of the integrating sphere. Each lamp was allowed to stabilise before measurements were made. The calibration of the integrating sphere spectroradiometer system is by the reference/standard lamps which are traceable to National Institute of Metrology P.R. CHINA. Lamp efficacy (lumens per watt) for each lamp model was then computed based on the luminous flux result. Electrical measurements including voltage, power and power factor were measured using YOKOGAWA - Digital Power Meter., model WT310E.

Correction factor (self-absorption) has been considered when doing measurement.

Standard lamp used for Goniophotometer method:

Model: D215S

Current: 4.809A DC

Standard lamp used for integrating sphere:

Model: D204

Current: 3.958A DC

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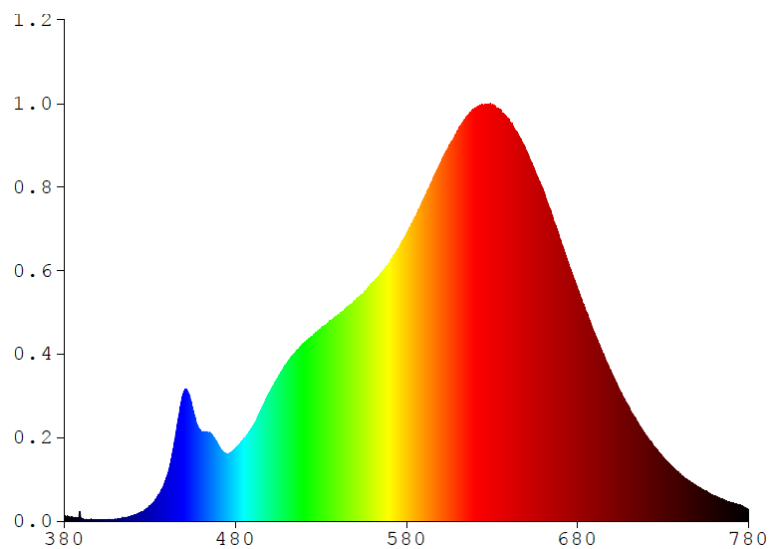
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For PBL80627XXXEG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.5832	480	6.7340	580	26.5100	680	21.4940	780	1.0925
385	0.3080	485	7.6472	585	28.0130	685	19.3300		
390	0.2209	490	8.7200	590	29.6980	690	17.3160		
395	0.1051	495	10.3090	595	31.3750	695	15.4730		
400	0.1404	500	11.8950	600	33.0990	700	13.6590		
405	0.1712	505	13.2750	605	34.6270	705	11.9930		
410	0.1979	510	14.5830	610	35.9810	710	10.5530		
415	0.3509	515	15.5210	615	37.2490	715	9.1808		
420	0.5399	520	16.4570	620	38.0800	720	7.9370		
425	0.8645	525	17.0510	625	38.3330	725	6.8875		
430	1.4174	530	17.7500	630	38.3300	730	5.9313		
435	2.4217	535	18.4370	635	37.8810	735	5.0758		
440	4.1968	540	19.0630	640	36.9900	740	4.3685		
445	7.9207	545	19.6630	645	35.7330	745	3.7583		
450	11.9770	550	20.3050	650	34.1330	750	3.2302		
455	10.3500	555	21.0230	655	32.3310	755	2.7881		
460	8.2706	560	21.9760	660	30.4910	760	2.3671		
465	8.1671	565	22.8540	665	28.2880	765	2.0388		
470	7.0284	570	23.7540	670	25.9720	770	1.7449		
475	6.2392	575	25.1380	675	23.1930	775	1.4963		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For PBL80627XXXEG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

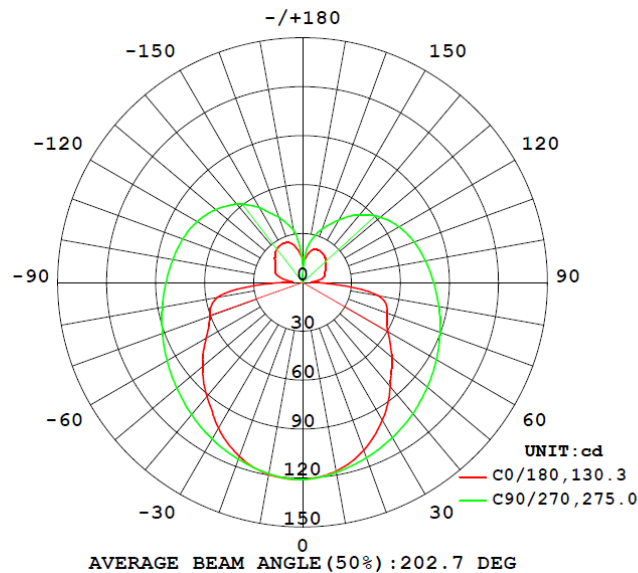
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	R9	CIE 31'	CIE 31'	CIE 76'	CIE 76'
					Chromaticit	Chromaticit	Chromaticit	Chromaticit
					y	y	y	y
					Coordinate	Coordinate	Coordinate	Coordinate
					(x)	(y)	(u')	(v')
PBL80627XXXEG								
S2510270 67-027	base-up	2650	96	69	0.4659	0.4147	0.2645	0.5298

Photometric and Electrical Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
PBL80627XXXEG							
S2510270 67-027	base-up	120.2	110.3	13.1	0.99	774.8	59.0

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For PBL80627XXXEG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	120.8	120.8	120.8	120.8	120.8
5	119.7	119.7	119.9	119.8	120.0
10	117.5	117.6	117.9	117.9	118.4
15	114.1	114.4	115.1	115.5	116.4
20	109.5	110.0	111.6	113.1	114.4
25	103.9	104.7	107.7	110.5	112.2
30	97.7	98.7	103.3	107.6	109.9
35	90.9	92.5	98.6	104.7	107.5
40	83.5	85.8	93.6	101.6	105.1
45	76.9	78.7	88.5	98.3	102.4
50	71.2	71.4	83.3	95.1	99.8
55	65.6	65.1	78.1	91.9	97.2
60	60.3	59.1	73.2	88.8	94.7
65	56.9	53.2	68.6	85.8	92.1
70	55.3	47.8	64.4	82.9	89.6
75	53.1	42.9	60.5	80.2	87.1
80	46.9	38.4	57.2	77.6	84.7
85	26.5	34.3	54.3	75.2	82.4
90	7.3	30.1	52.0	73.1	80.3
95	6.1	27.6	50.3	71.3	78.3
100	11.3	26.4	49.0	69.7	76.5
105	13.5	26.2	48.3	68.2	74.6
110	14.7	26.7	47.9	66.7	72.7
115	15.3	27.6	47.8	65.1	70.6
120	16.4	28.7	47.7	63.3	68.3
125	17.6	29.2	47.3	61.0	65.5
130	18.9	29.3	46.5	58.3	62.3
135	20.1	29.3	44.8	55.2	58.6
140	21.0	29.2	42.2	51.3	54.4
145	21.7	28.5	39.3	46.8	49.5
150	22.1	27.0	36.4	42.1	44.3
155	22.2	25.1	33.5	37.7	39.3
160	21.6	23.6	30.3	33.6	34.9
165	20.3	22.0	26.3	28.8	30.0
170	17.4	17.6	22.6	23.9	24.6
175	14.3	13.2	15.5	16.2	17.4
180	15.2	14.2	12.0	8.2	3.0

***** End of Page *****

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For PBL80627XXXEG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
PBL80627XXXEG		
0-30	94.6	12.2
0-40	157.4	20.3
0-60	299.6	38.7
0-90	499.1	64.4
60-90	199.5	25.7
0-180	774.8	100.0

Beam Angle

Total Beam Angle(°)

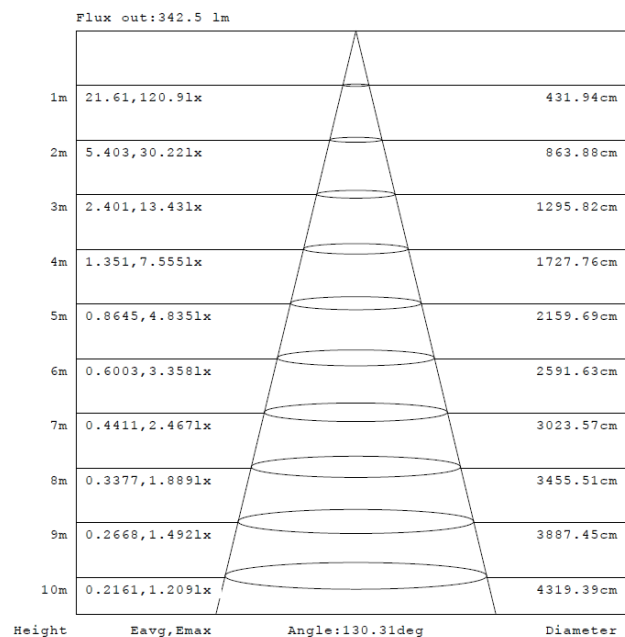
202.7

Illumination Plots

Model No.: PBL80627XXXEG

Mount Height: 2.5 m

Illuminance - Cone of Light



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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TEST REPORT

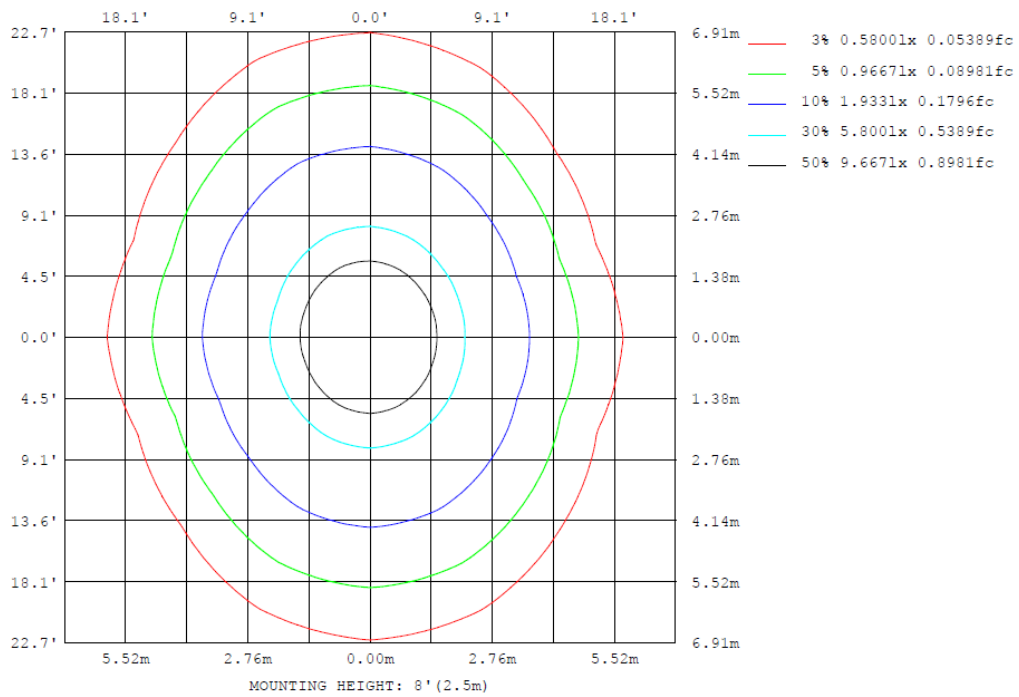
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For PBL80627XXXEG

Model No.: PBL80627XXXEG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For PBL80627XXXEG

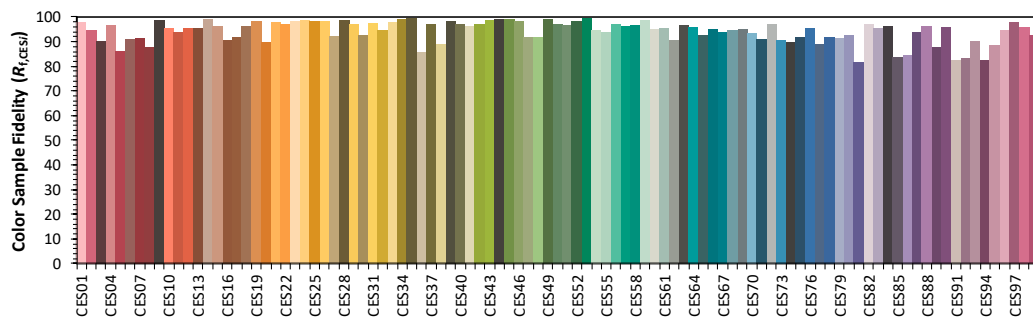
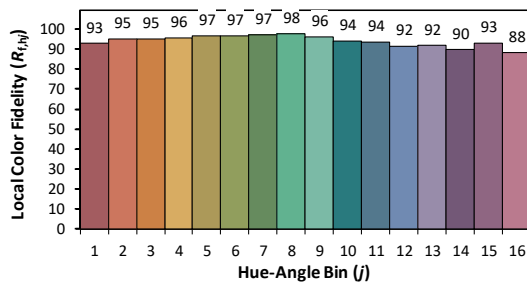
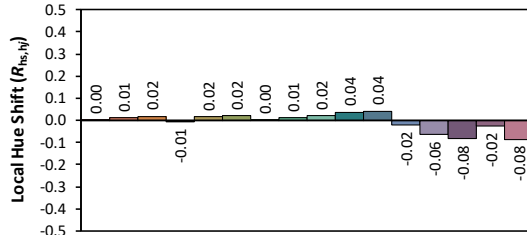
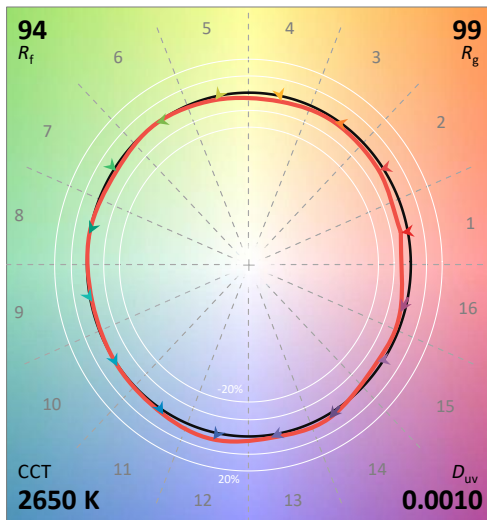
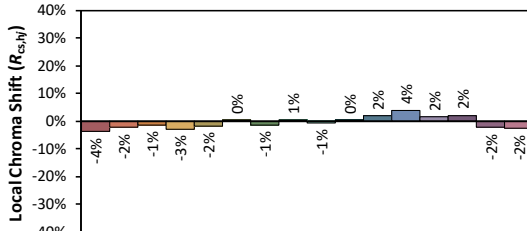
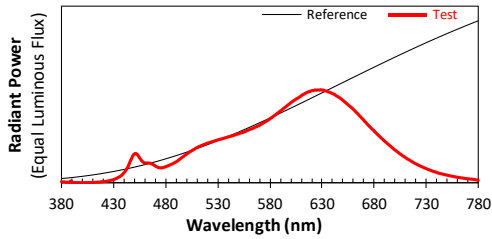
ANSI/IES+B3:X17 TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/2/6

Model: PBL80627XXXEG



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4659
 y 0.4147
 u' 0.2645
 v' 0.5298

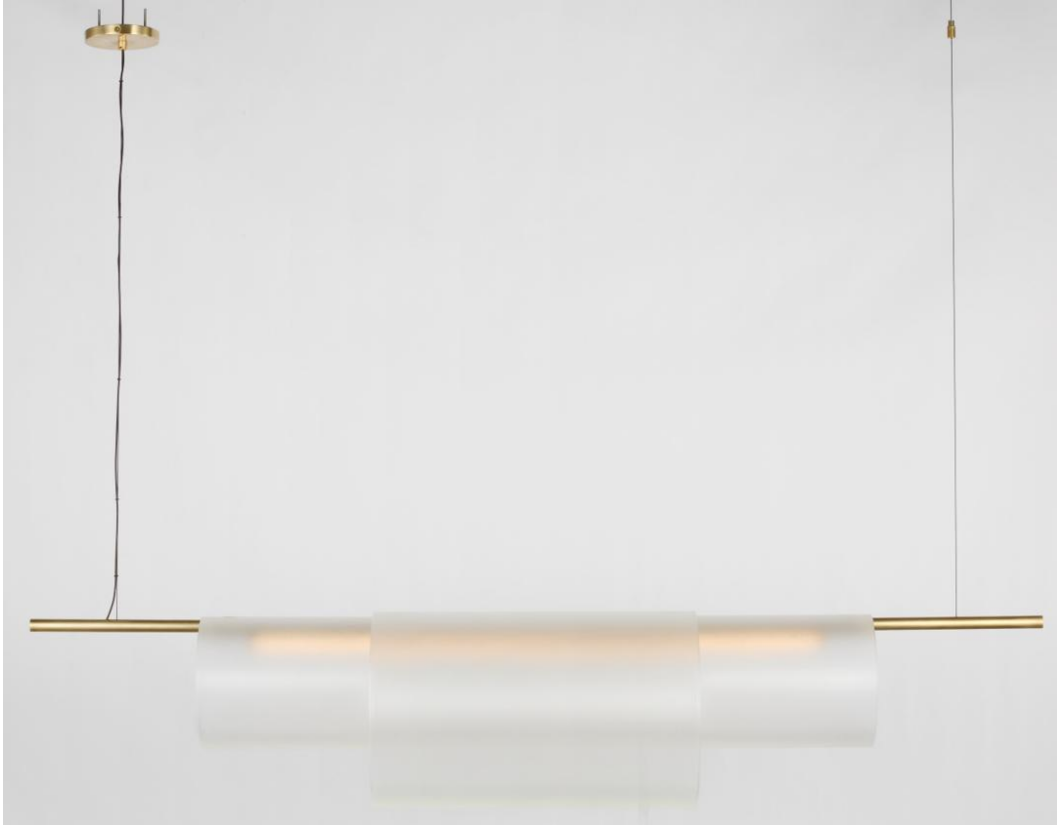
CIE 13.3-1995
(CRI)
 R_a 96
 R_g 69

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

***** End of Page *****

TEST REPORT

PRODUCT PICTURE (not to scale)



External view of PBLS80627XXXEG



External view of PBLS80627XXXEG

***** End of Page *****

TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver PTB15W-0300-38-VCC1 (AB0257)



View of LED

In Charge Of Tests:

Done Ye

Done Ye
Engineer

Report Reviewed By

Shelley Ying

Shelley Ying
Reviewer

Attachment: None

***** End of Report *****