



Photometric Test Report

Relevant Standards

- IES LM-79-2008
- ANSI C82.77:2017

Prepared For RAB Lighting Inc.

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1.0 Test Summary

DLC Technical Requirements v5.1

Indoor - Lamps			
Requirement Category	Test Method	Requirements	Test value
2700K			
Luminaire Output (lm) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	884
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	89.5
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	9.9
Total Harmonic Distortion (A%) (THD & PF - section 4.3)	ANSI C82.77:2014	-	29.22%
Power Factor (THD & PF - section 4.3)	ANSI C82.77:2014	0.9	0.953
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	2725±145
		4 step	2725±83
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥70	98
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥0	96.4
Minimum Rf (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥70	97
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89	102
IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-12% ≤ IES Rcs,h1 ≤ +23%	0%
3000K			
Luminaire Output (lm) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	874
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	89.5
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	9.8
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	3045±175
		4 step	3045±100
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥70	96
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥0	95.9
Minimum Rf (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥70	96
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89	101

IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-12% ≤ IES Rcs,h1 ≤ +23%		1%
6500K				
Luminaire Output (lm) (Goniophotometer - Section 4.2)	IES LM-79-2008	-		994
Minimum Luminaire Efficacy (lm/W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-	-	100.4
Power (Input Wattage) (W) (Goniophotometer - Section 4.2)	IES LM-79-2008	-		9.9
Allowable CCTs* (K) (Integrating Sphere - Section 4.1)	IES LM-79-2008	7 step	6532±510	6221
		4 step	6532±320	
Minimum CRI (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥70		97
Minimum R9 (Integrating Sphere - Section 4.1)	IES LM-79-2008 CIE 13.3-1995	≥0		95.0
Minimum Rf (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥70		94
Minimum Rg (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	≥89		98
IES Rcs,h1 (Integrating Sphere - Section 4.1)	ANSI/IES TM-30-18	-12% ≤ IES Rcs,h1 ≤ +23%		0%

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Integrating Sphere Test	2020/3/27	A19-10-E26-9SS/LC	A1
2	Goniophotometer Test	2020/3/27	A19-10-E26-9SS/LC	A1
3	THD and PF Test	2020/3/27	A19-10-E26-9SS/LC	A1

Remark(If any)

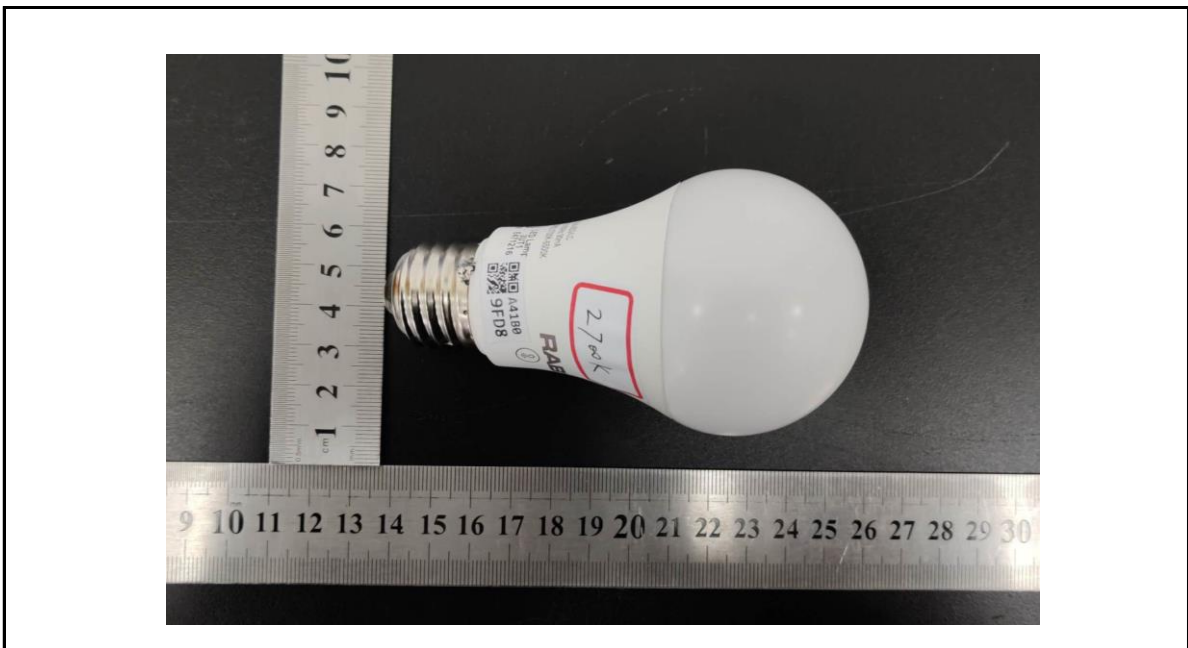
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3.0 Production Description

Luminaire Description: A19-10-E26-9SS/LC

Electrical Specification: 120V,60HZ

Photos of Luminaire Characteristics



4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test - 2700K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	56.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C ± 1° C.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.

The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.01	60	0.087	9.9	0.953

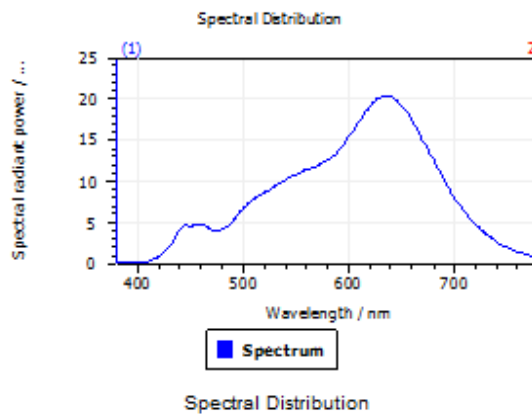
Test Result

CCT (K)	CRI	R9	Duv
2757	98	96	0.00077

Rf	Rg	IES Rcs,h1
97	102	0%

4.1 Integrating Sphere Test

Results

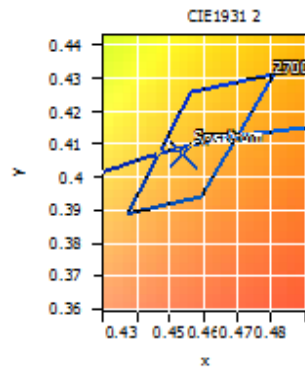


Spectral values

DominantWavelength	584.19 nm
Purity	0.585
PeakWavelength	635.27 nm
Width50%	149.73 nm

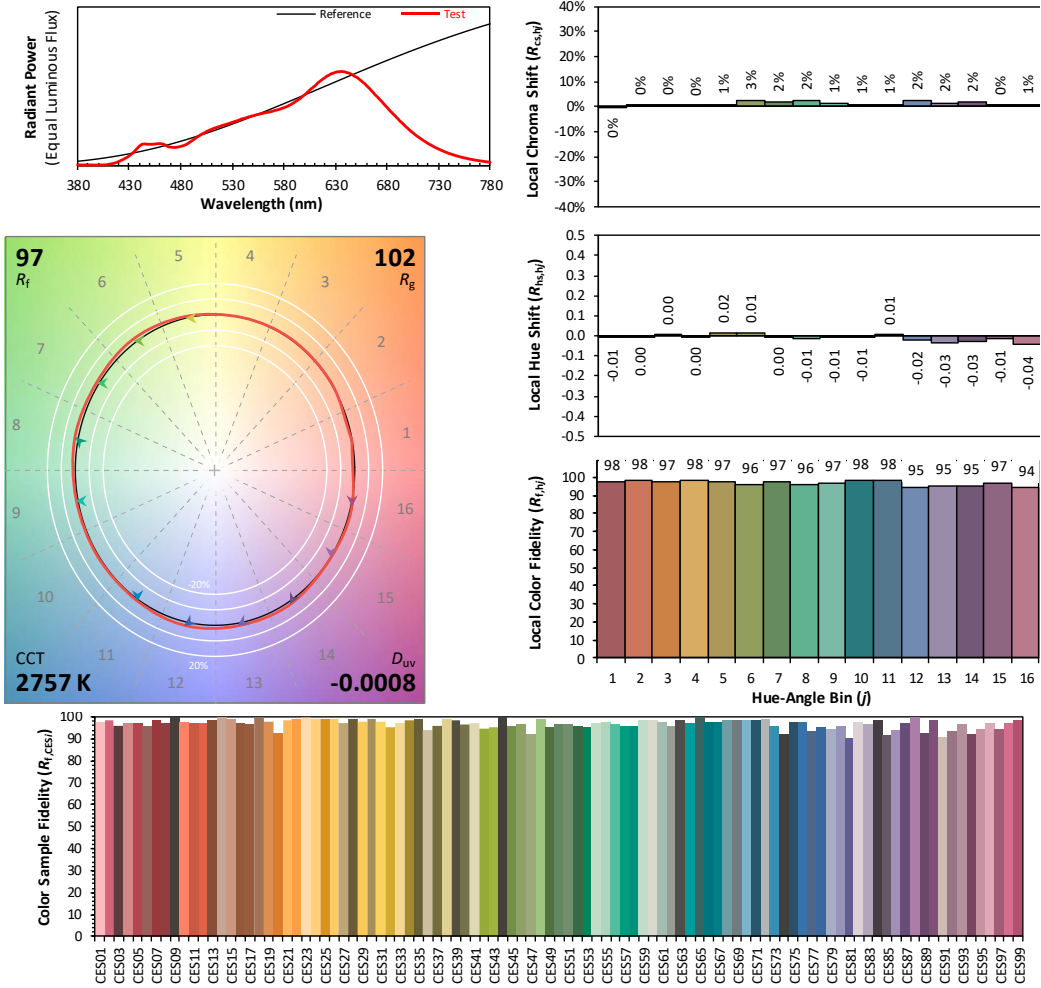
Color Coordinates

Correlated Color Temperature	2757 K		
x:	0.4539	u:	0.2602
		u':	0.2602
y:	0.4071	v:	0.3501
		v':	0.5251
CRI01	97.2	CRI09	96.4
CRI02	98.8	CRI10	98.9
CRI03	97.0	CRI11	92.4
CRI04	95.6	CRI12	96.5
CRI05	97.1	CRI13	97.2
CRI06	96.6	CRI14	97.2
CRI07	98.6	CRI15	98.9
CRI08	98.8	CRI16	98.7
ResultsCRI	97.5		



PlanckDistance 7.7E-004

4.1 Integrating Sphere Test



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

x	0.4539	CIE 13.3-1995 (CRI) R_a 97 R_g 97
y	0.4071	
u'	0.2602	
v'	0.5251	

4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test - 3000K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	56.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C ± 1° C.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ±0.2 percent under load.

The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.02	60	0.086	9.8	0.953

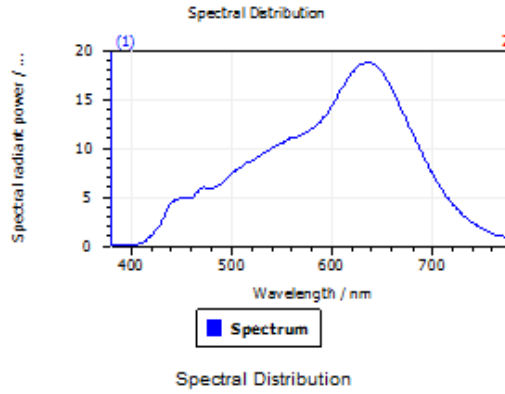
Test Result

CCT (K)	CRI	R9	Duv
2958	96	96	0.0016

Rf	Rg	IES Rcs,h1
96	101	1%

4.1 Integrating Sphere Test

Results



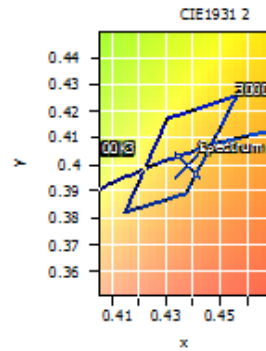
Spectral values

DominantWavelength	583.59 nm
Purity	0.515
PeakWavelength	635.23 nm
Radiant Power	3.214 W
Width50%:	
Luminous Flux	0.8341 lkm

Date: 2020/4/17 16:22:21

Color Coordinates

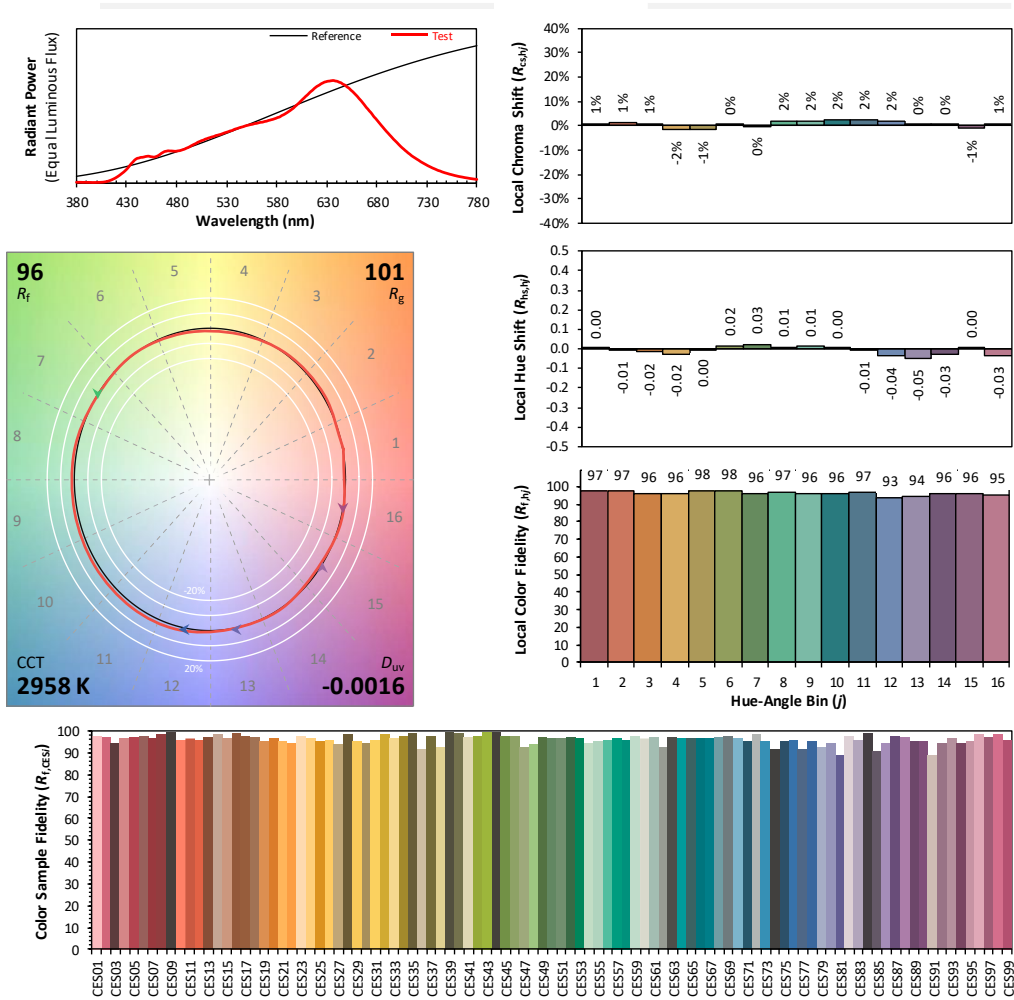
Correlated Color Temperatu	2958 K		
x:	0.4375	u:	0.2526
		u':	0.2526
y:	0.4002	v:	0.3466
		v':	0.5199
CRI01	95.0	CRI09	95.9
CRI02	96.5	CRI10	93.6
CRI03	99.2	CRI11	92.1
CRI04	95.1	CRI12	90.4
CRI05	94.7	CRI13	94.9
CRI06	93.3	CRI14	98.5
CRI07	98.5	CRI15	96.3
CRI08	98.5	CRI16	96.1
ResultsCRI	96.4		



Nominal CCT 5700K

PlanckDistance 1.6E-003

4.1 Integrating Sphere Test



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

x 0.4375
 y 0.4002
 u' 0.2526
 v' 0.5199

CIE 13.3-1995 (CRI)	
R_a	96
R_g	96

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.0.

4.0 LM-79 Measurement and Test Results

4.1 Integrating Sphere Test - 6500K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	24.9	Humidity (%RH)	58.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$.

The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The sample was measured using 4π geometry and operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Result

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
120.02	60	0.086	9.9	0.954

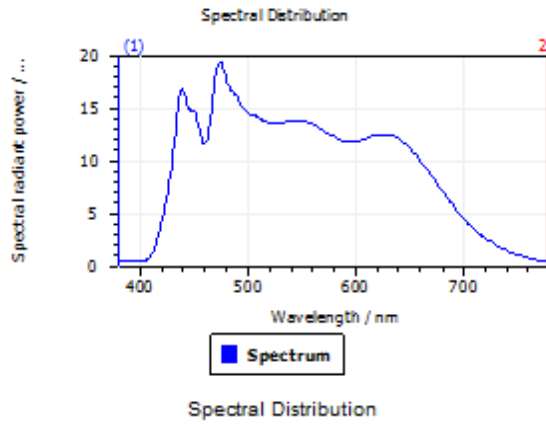
Test Result

CCT (K)	CRI	R9	Duv
6221	97	95	0.0044

Rf	Rg	IES Rcs,h1
94	98	0%

4.1 Integrating Sphere Test

Results



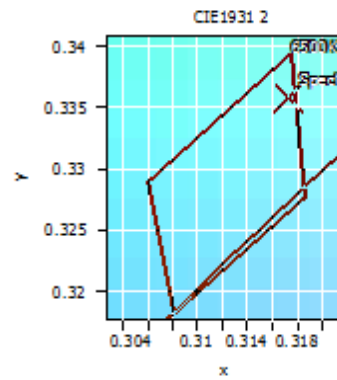
Spectral values

DominantWavelength	493.72 nm
Purity	0.052
PeakWavelength	474.23 nm
Radiant Power	3.671 W
Width50%:	
Luminous Flux	0.9625 klm

Date: 2020/4/24 18:42:01

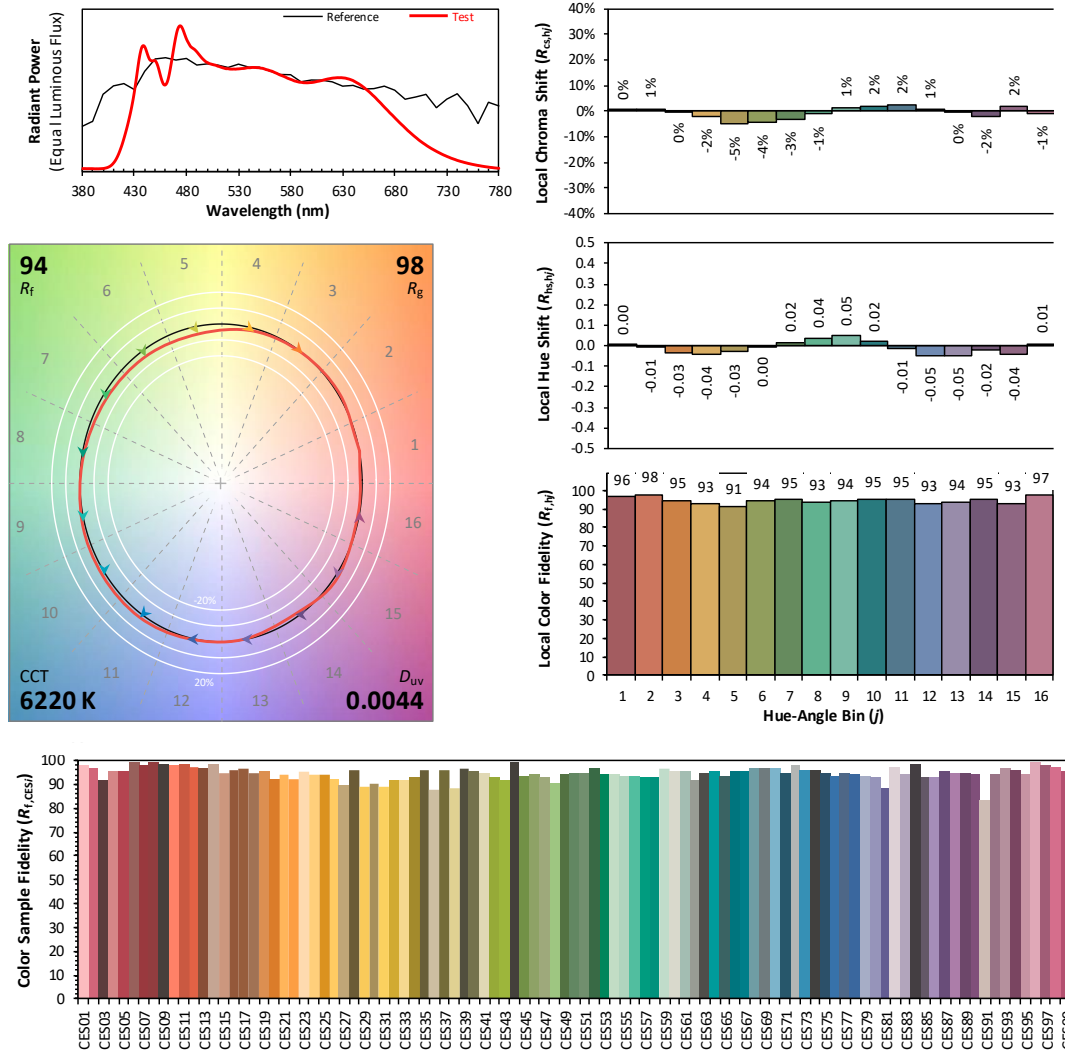
Color Coordinates

Correlated Color Temperature	6221 K				
x:	0.3174	u:	0.1985	u':	0.1985
y:	0.3358	v:	0.3151	v':	0.4726
CRI01	97.9	CRI09	94.7		
CRI02	96.8	CRI10	93.3		
CRI03	96.5	CRI11	97.1		
CRI04	95.5	CRI12	95.0		
CRI05	97.9	CRI13	97.2		
CRI06	96.9	CRI14	98.2		
CRI07	96.0	CRI15	96.9		
CRI08	97.3	CRI16	94.2		
ResultsCRI	96.9				



PlandkDistance 4.4E-003

4.1 Integrating Sphere Test



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

x **0.3174**
 y **0.3358**
 u' **0.1985**
 v' **0.4726**

CIE 13.3-1995 (CRI)	
R_a	97
R_g	97

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test - 2700K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	54.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

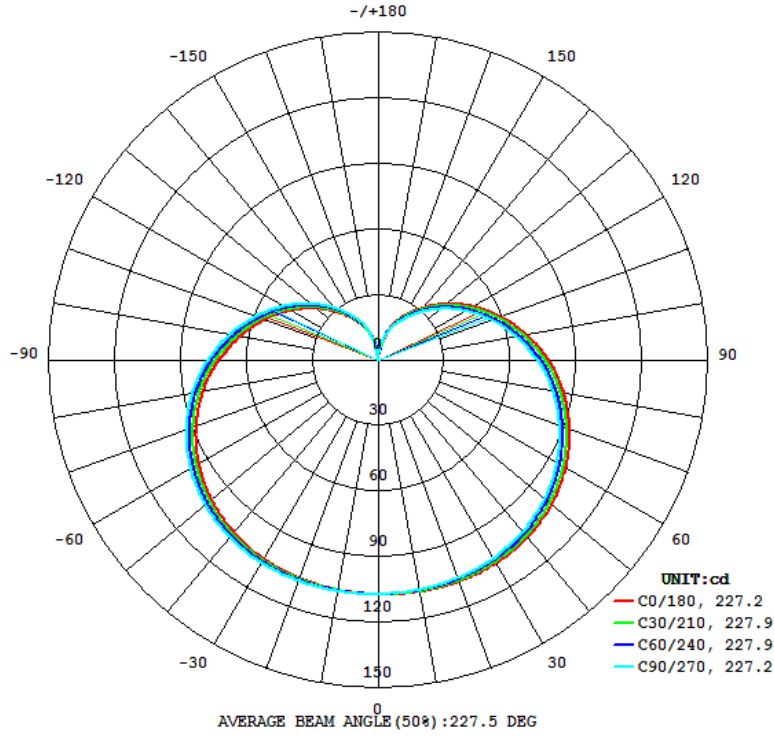
Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WROST CASE	120.07	60	0.086	9.9	0.956

Test Result

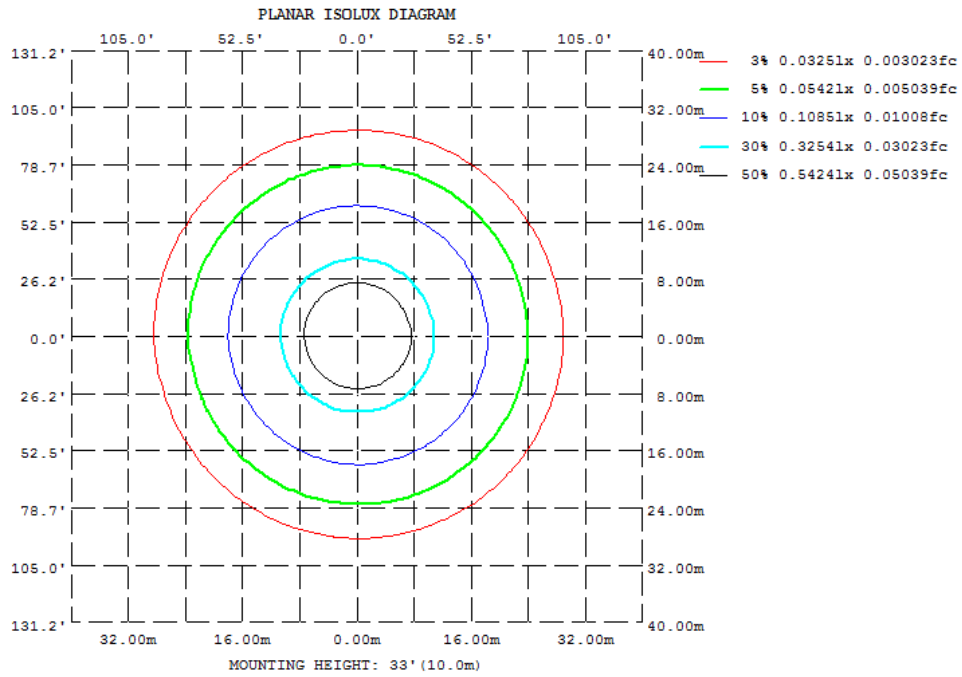
Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
884	328.7	329.5	227.2	227.2	89.5

4.2 Goniophotometer Test

Light Distrubtion Curve



Isolux Plot



4.2 Goniophotometer Test

Zonal Lumen Summary

DEG	LUMINOUS INTENSITY:cd									
	C0	C45	C90	C135	C180	C225	C270	C315		
10	107.8	107.3	106.8	106.3	106.9	107.2	107.4	107.5		
20	107.7	107.0	106.1	105.4	106.1	106.8	107.4	107.7		
30	107.3	106.1	104.7	103.9	104.9	106.1	107.0	107.4		
40	105.8	104.2	102.4	101.6	102.7	104.4	105.7	106.2		
50	102.9	100.9	98.94	97.87	99.30	101.3	102.9	103.6		
60	98.57	96.34	94.00	92.98	94.53	96.76	98.65	99.30		
70	92.78	90.49	87.95	86.68	88.25	90.80	93.09	93.59		
80	85.73	83.36	80.79	79.47	81.08	83.84	86.00	86.66		
90	77.68	75.20	72.81	71.53	73.01	75.71	77.95	78.43		
100	68.79	66.45	64.01	62.94	64.34	66.84	69.06	69.62		
110	59.41	57.27	55.00	53.96	55.31	57.56	59.49	60.20		
120	49.88	47.88	45.89	44.95	46.13	48.15	50.03	50.58		
130	40.51	38.81	36.99	36.19	37.27	38.95	40.65	41.07		
140	31.61	30.20	28.69	28.08	28.92	30.38	31.81	32.12		
150	23.70	22.61	21.40	20.86	21.56	22.68	23.78	23.57		
160	15.36	15.43	14.85	14.47	14.78	15.22	15.73	14.42		
170	6.933	3.768	5.786	5.592	6.130	5.592	5.597	7.161		
180	0.2132	0.2056	0.2030	0.2018	0.2132	0.2081	0.2023	0.2026		



ZONAL LUMEN SUMMARY

	Zonal (lm)		Total (lm)	Percent
0-10	10.22	0 - 10	10.22	1.16%
10-20	30.31	0 - 20	40.53	4.58%
20-30	49.22	0 - 30	89.75	10.15%
30-40	65.97	0 - 40	155.72	17.61%
40-50	79.42	0 - 50	235.14	26.59%
50-60	88.56	0 - 60	323.70	36.61%
60-70	92.76	0 - 70	416.46	47.10%
70-80	91.94	0 - 80	508.40	57.50%
80-90	86.56	0 - 90	594.96	67.29%
90-100	77.36	0 - 100	672.32	76.04%
100-110	65.50	0 - 110	737.82	83.45%
110-120	52.23	0 - 120	790.05	89.35%
120-130	38.92	0 - 130	828.97	93.76%
130-140	26.76	0 - 140	855.73	96.78%
140-150	16.54	0 - 150	872.27	98.65%
150-160	8.72	0 - 160	880.99	99.64%
160-170	2.97	0 - 170	883.96	99.98%
170-180	0.22	0 - 180	884.18	100.00%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test - 3000K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.5	Humidity (%RH)	56.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

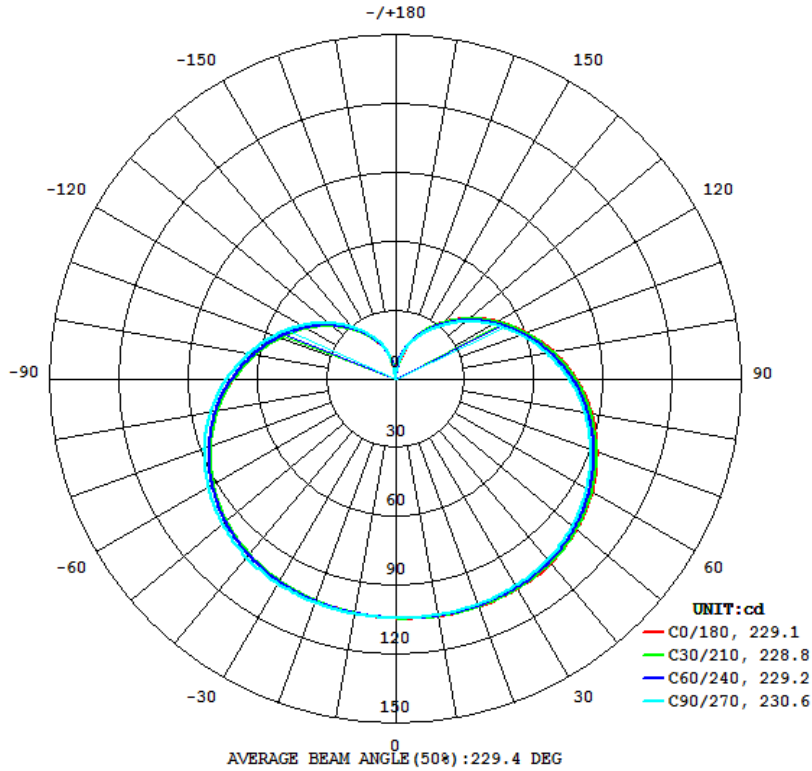
Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WROST CASE	120.07	60	0.085	9.8	0.956

Test Result

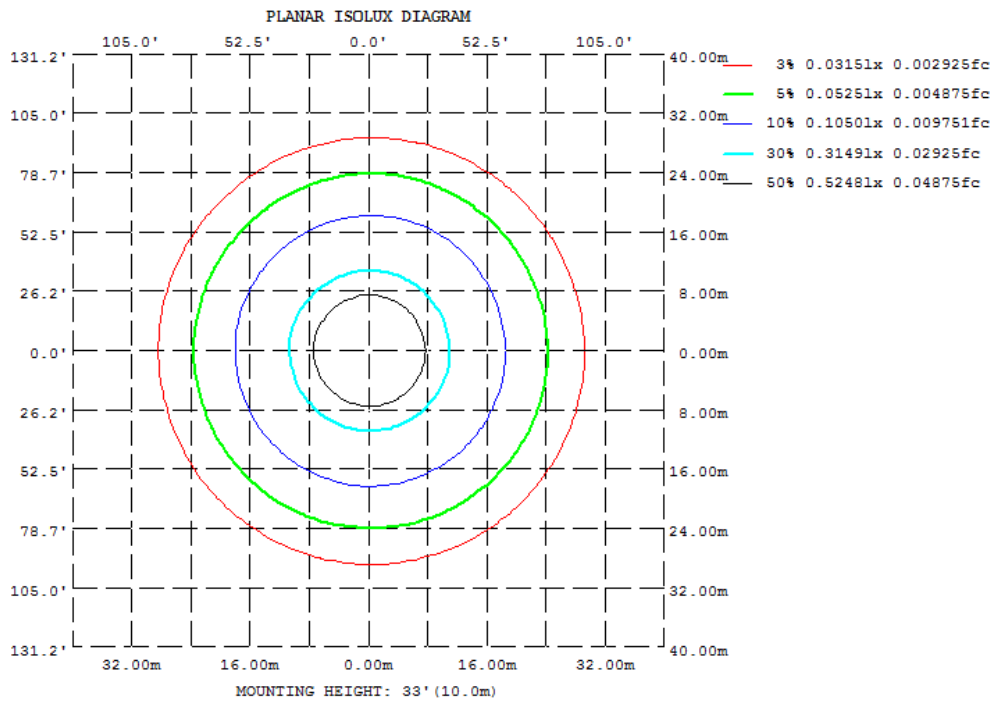
Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
874	329.3	330.5	229.1	230.6	89.5

4.2 Goniophotometer Test

Light Distrubtion Curve



Isolux Plot



4.2 Goniophotometer Test

Zonal Lumen Summary

DEG	C0	C45	C90	C135	C180	C225	C270	C315
10	105.0	104.7	104.3	103.8	104.0	103.5	104.0	104.4
20	105.4	104.9	104.3	103.2	103.0	102.9	103.7	104.8
30	105.6	104.9	103.7	102.5	101.8	101.6	102.9	104.4
40	104.6	104.0	102.4	100.8	99.78	99.47	101.3	103.4
50	102.3	101.5	99.98	97.87	96.43	96.27	98.39	101.0
60	98.51	97.61	95.69	93.23	91.71	91.66	94.02	97.03
70	93.15	92.23	90.09	87.67	85.82	85.70	88.50	91.64
80	86.34	85.29	83.27	80.67	78.96	78.82	81.52	84.89
90	78.44	77.47	75.36	72.78	71.08	71.15	73.85	77.05
100	69.77	68.78	66.93	64.31	62.71	62.75	65.39	68.44
110	60.52	59.54	57.72	55.44	53.87	54.01	56.43	59.25
120	51.04	50.12	48.40	46.43	45.08	45.24	47.35	49.95
130	41.56	40.82	39.34	37.55	36.42	36.63	38.48	40.68
140	32.58	32.03	30.73	29.29	28.36	28.52	30.15	31.89
150	24.48	24.04	23.00	21.83	21.15	21.34	22.55	23.26
160	16.10	16.47	15.96	15.10	14.46	14.38	14.94	14.28
170	7.250	4.084	6.291	5.721	5.772	5.141	5.472	6.993
180	0.2060	0.1984	0.1977	0.1954	0.2056	0.2027	0.1978	0.1974

LUMINOUS INTENSITY:cd



ZONAL LUMEN SUMMARY

	Zonal (lm)		Total (lm)	Percent
0-10	9.95	0 - 10	9.95	1.14%
10-20	29.52	0 - 20	39.47	4.51%
20-30	48.02	0 - 30	87.49	10.01%
30-40	64.55	0 - 40	152.04	17.39%
40-50	77.95	0 - 50	229.99	26.31%
50-60	87.13	0 - 60	317.12	36.28%
60-70	91.51	0 - 70	408.63	46.74%
70-80	90.91	0 - 80	499.54	57.14%
80-90	85.77	0 - 90	585.31	66.95%
90-100	76.85	0 - 100	662.16	75.74%
100-110	65.23	0 - 110	727.39	83.21%
110-120	52.18	0 - 120	779.57	89.18%
120-130	39.01	0 - 130	818.58	93.64%
130-140	26.90	0 - 140	845.48	96.71%
140-150	16.68	0 - 150	862.16	98.62%
150-160	8.81	0 - 160	870.97	99.63%
160-170	3.01	0 - 170	873.98	99.97%
170-180	0.22	0 - 180	874.20	100.00%

4.0 LM-79 Measurement and Test Results

4.2 Goniophotometer Test - 6500K

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.5	Humidity (%RH)	56.0

Test Method

The samples were tested according to the IES LM-79-2008.

Photometric parameters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured at a point not more than 1 m from the sample and at the same height as the sample.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

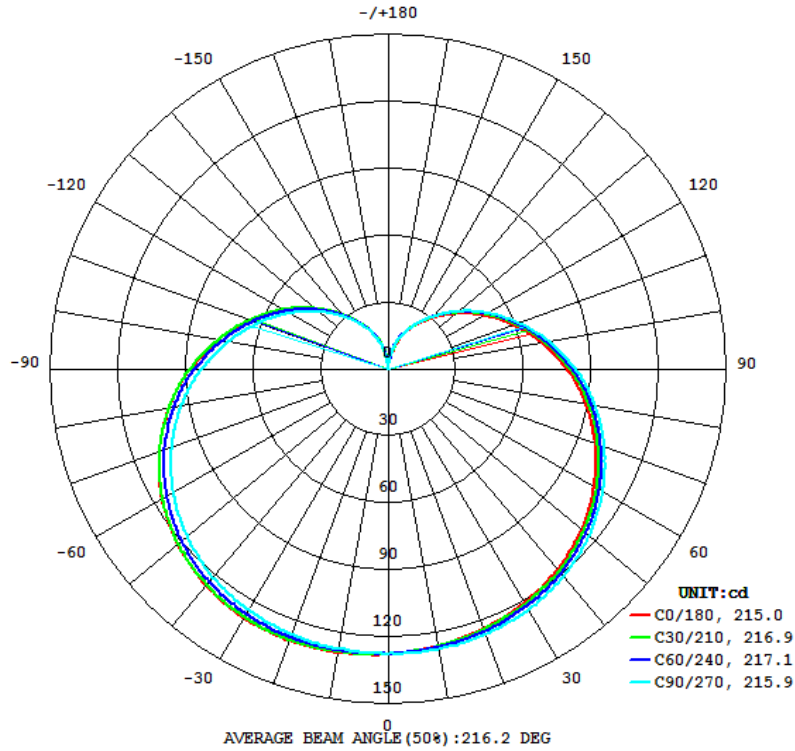
Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
WROST CASE	120.16	60	0.086	9.9	0.956

Test Result

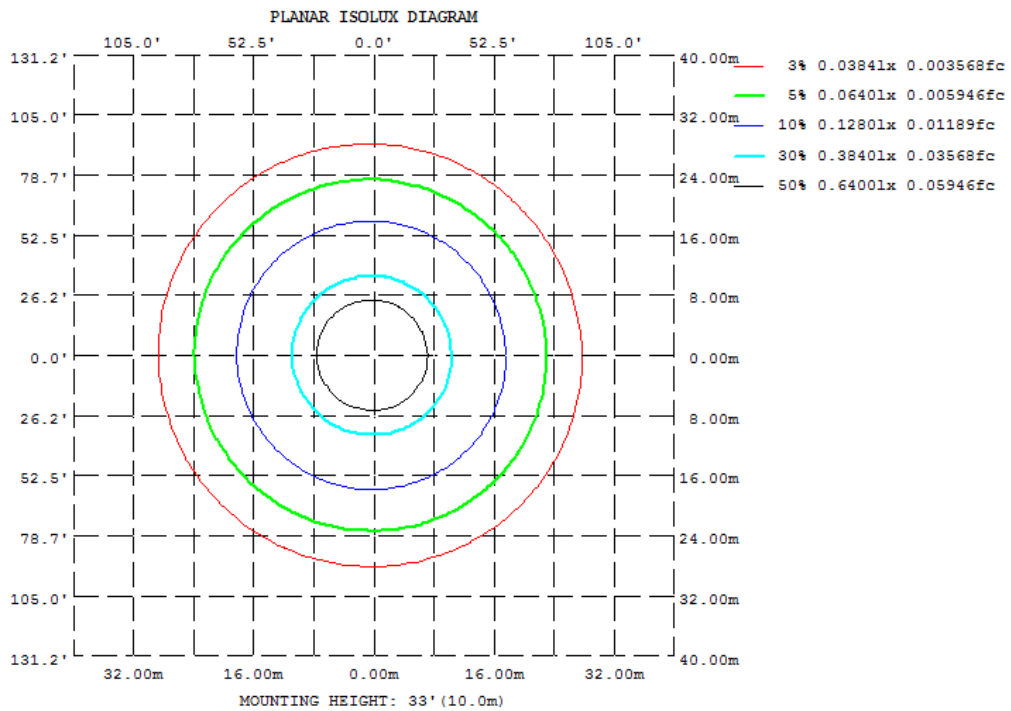
Flux (lm)	Field Angle(10%)		Beam Angle(50%)		Luminous Efficacy (lm/W)
	C0-180	C90-270	C0-180	C90-270	
994	324.9	325.9	215.0	215.9	100.4

4.2 Goniophotometer Test

Light Distribution Curve



Isolux Plot



4.2 Goniophotometer Test

Zonal Lumen Summary

γ	LUMINOUS INTENSITY:cd									
	C0	C45	C90	C135	C180	C225	C270	C315		
10	125.9	126.2	127.2	128.3	128.9	128.4	127.4	125.8		
20	123.6	124.7	126.3	128.0	129.4	128.6	126.4	124.0		
30	120.7	122.0	124.3	126.6	128.7	127.9	124.5	121.2		
40	117.0	118.7	121.1	124.0	126.4	125.2	121.6	117.4		
50	112.0	114.0	116.2	119.4	122.1	121.1	116.6	112.3		
60	105.5	107.7	109.9	113.3	115.9	115.2	110.3	105.8		
70	97.79	99.92	102.1	105.2	108.1	107.3	102.4	97.77		
80	88.96	91.21	93.18	95.91	98.71	98.06	93.30	88.97		
90	79.49	81.52	83.15	85.65	88.36	87.83	83.21	79.25		
100	69.32	71.37	72.61	74.75	77.11	76.74	72.52	68.94		
110	59.01	60.83	61.75	63.35	65.43	65.11	61.68	58.63		
120	48.89	50.37	50.96	52.17	53.88	53.57	50.80	48.51		
130	39.08	40.36	40.65	41.41	42.59	42.59	40.48	38.75		
140	30.20	31.08	31.15	31.47	32.40	32.47	31.08	29.91		
150	22.41	22.95	22.84	22.88	23.53	23.62	22.86	21.22		
160	14.55	15.42	15.52	15.46	15.76	15.75	15.17	12.99		
170	6.234	3.264	5.672	5.646	6.366	5.907	5.068	6.592		
180	0.2451	0.2409	0.2383	0.2378	0.2457	0.2439	0.2395	0.2379		



ZONAL LUMEN SUMMARY

	Zonal (lm)		Total (lm)	Percent
0-10	12.16	0 - 10	12.16	1.22%
10-20	35.93	0 - 20	48.09	4.84%
20-30	58.03	0 - 30	106.12	10.67%
30-40	77.24	0 - 40	183.36	18.44%
40-50	92.20	0 - 50	275.56	27.71%
50-60	101.89	0 - 60	377.45	37.95%
60-70	105.71	0 - 70	483.16	48.58%
70-80	103.73	0 - 80	586.89	59.02%
80-90	96.62	0 - 90	683.51	68.73%
90-100	85.37	0 - 100	768.88	77.32%
100-110	71.36	0 - 110	840.24	84.49%
110-120	56.15	0 - 120	896.39	90.14%
120-130	41.24	0 - 130	937.63	94.28%
130-140	27.88	0 - 140	965.51	97.09%
140-150	16.94	0 - 150	982.45	98.79%
150-160	8.80	0 - 160	991.25	99.68%
160-170	3.00	0 - 170	994.25	99.98%
170-180	0.22	0 - 180	994.47	100.00%

4.0 LM-79 Measurement and Test Results

4.3 THD and PF Test

Model No.	A19-10-E26-9SS/LC	Sample ID.	A1
Temperature (°C)	25.3	Humidity (%RH)	56.0

Test Method

The samples were tested according to the ANSI C82.77:2002.

The total harmonic distortion shall be measured to the 40th order.

The ambient temperature condition was maintained at 25° C ± 1° C. The sample measurements were made using a digital power meter and power supply. The sample was operated at rated voltage and was stabilized before measurement. The total harmonic distortion were calculated.

Test Results

Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD
120.01	60	0.087	9.9	0.953	29.22%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2019/12/26	2020/12/25
DLF108	Auxiliary Lamp	2019/12/26	2020/12/25
DLF122	Measurement Standard Lamp Standard Lamp Type: 220 V, 0.4720 A, Tungsten, Omni-derectional	2019/12/26	2020/12/25
DLF116	AC Power Source	2019/12/26	2020/12/25
DLF113	Power Meter	2019/12/26	2020/12/25
DLF112	Temperature Recorder	2019/12/26	2020/12/25
DLF114	Temperature & Humidity Datalogger	2019/12/26	2020/12/25
DLF101	Goniophotometer	2019/12/26	2020/12/25
DLF125	Standard Lamp Standard Lamp Type: 76.58 V, 6.7875 A, Tungsten, Omni-derectional	2019/12/26	2020/12/25
DLF104	AC Power Source	2019/12/26	2020/12/25
DLF507	DC Power Source	2019/12/26	2020/12/25
DLF102	Power Meter	2019/12/26	2020/12/25
DLF111	Temperature & Humidity Datalogger	2019/12/26	2020/12/25
DLF119	Power Meter	2019/12/26	2020/12/25
DLF031	Temperature data logger	2019/12/26	2020/12/25
DLF022	Digital power meter	2019/12/26	2020/12/25
DLF003	Temperature & Humidity Datalogger	2019/12/26	2020/12/25

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