

LM-79-08 Test Report

For

RAB LIGHTING INC

(Brand Name : RAB)

170 Ludlow Ave , PO BOX 970, Northvale, NJ 07647-2305 USA

Model name(s) :

DLG0027 (GR4TL)

Report Type: Testing and Report According to IES LM-79-2008

Type of Luminaire: Downlights

Report Date: 2023-12-18

1.1 Rated Values:	
Rated Voltage / Frequency	120V, 60HZ
Nominal Power	15W
Rated Initial Lamp Lumen	1200lm (3000k) , 1250lm (5000k)
Declared CCT	2700k/3000k/3500k/4000k/5000k

1.2 Test Specifications:

Test item	<ol style="list-style-type: none"> 1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature 5. Color Rendering Index 6. Chromaticity Coordinate 7. Electrical Parameters
Reference Standard	<ol style="list-style-type: none"> 1. IES LM-79-2008 Electrical and Photometric Measurements of Solid-State Lighting Products 2. ANSI C78.377-2015 Specifications for the Chromaticity of Solid State Lighting Products 3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 4. CIE 15-2004 Technical Report Colorimetry 5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source 6. IESNA TM-16-05 Technical Memorandum on Light Emitting Diode (LED) Sources and Systems
Reference Work Instruction	QD25

1.3 Test Methods

<p>1) Photometric and Light Distribution Measurement – Goniophotometer Method:</p> <p>Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at 25°C ±1°C, measured at a point not more than 1 m from the sample and at the same height as the sample. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1°vertical intervals and 22.5°horizontal intervals.</p>
<p>2) Chromaticity Measurement – Sphere-Spectroradiometer Method:</p> <p>Chromaticity 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 sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral power distribution taken at 5 nm intervals over the range of 380 to 780 nm.</p>
<p>3) Electrical Measurements:</p> <p>Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at 25°C±1°C. The sample was operated at 120 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.</p>

2.1.1 Electrical, Photometric and Chromaticity Measurements

Test date	2023-12-18	Test Ambient:	25.3
Test Orientation	As intended	Stabilization Time (min)	15
Model Number	DLG0027 (GR4TL)	CCT Setting	2700k

Electrical Measurement:

Sampel No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
#1	120	60	0.122	14.41	0.981

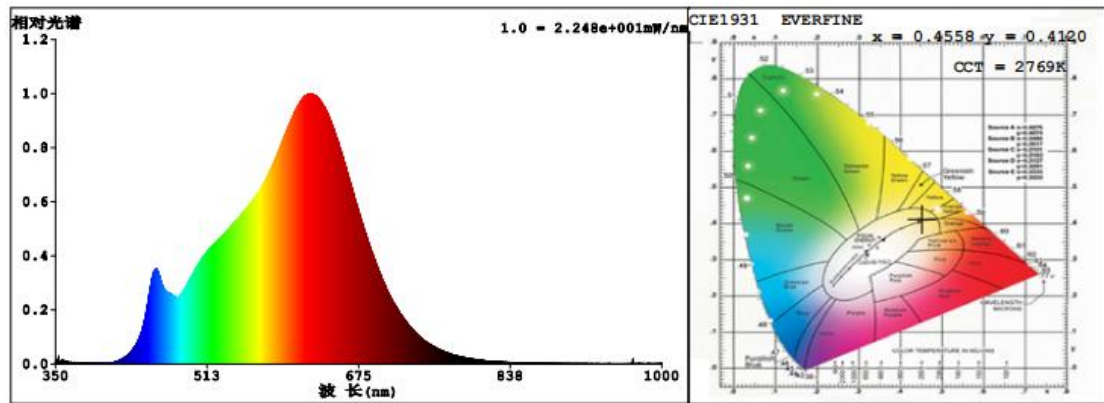
Chromaticity Measurement – Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120	R1	97	R9	66
Frequency (Hz)	60	R2	100	R10	98
CCT (K)	2769	R3	98	R11	98
Duv	0.000882	R4	95	R12	87
Chromaticity (x, y)	x=0.4558, y=0.4120	R5	96	R13	98
Chromaticity (u', v')	u' =0.2593, v' =0.5273	R6	97	R14	99
Color Rendering Index (CRI)	94.7	R7	92	R15	91
R9	66	R8	84	--	--

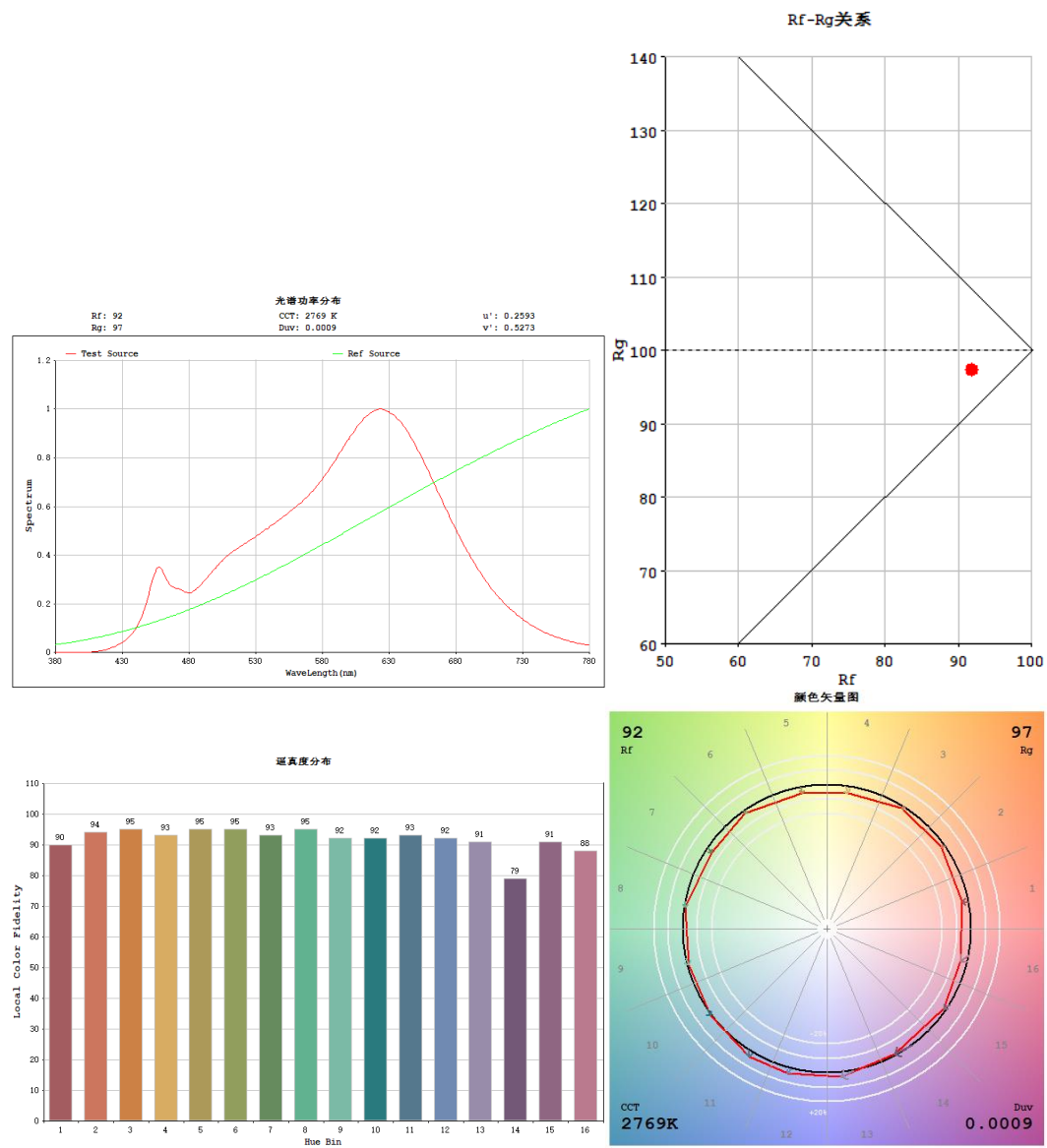
Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120
Frequency (Hz)	60
Total Luminous (lm)	1138.35
Luminous Efficacy (lm/W)	79.02
Beam Angle (°)	37.8
Center Beam Candle Power (cd)	3017

Spectral Power Distribution & Chromaticity Diagram



TM30

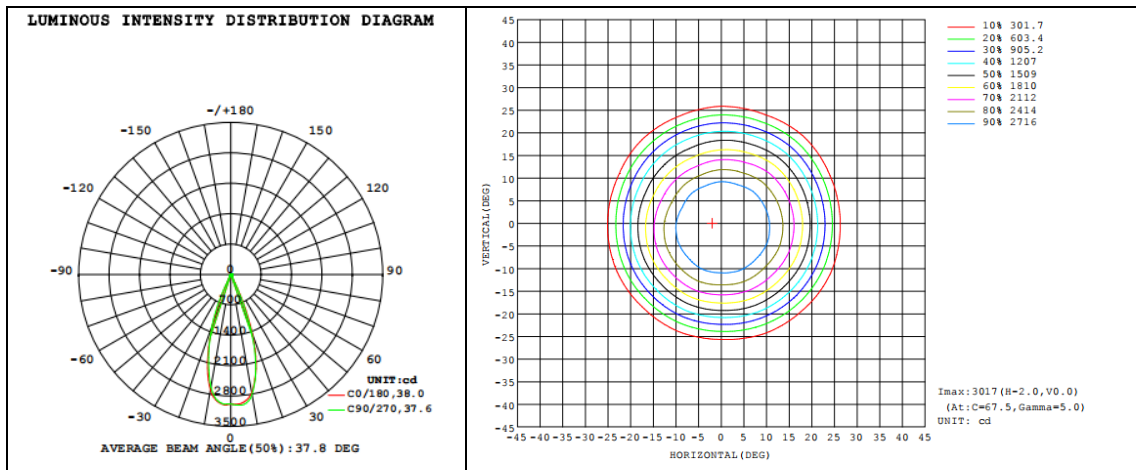


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1069.1	93.9%
0-40	1096.16	96.3%
0-60	1129.13	99.2%
60-90	9.1933	0.8%
70-100	3.3573	0.3%
90-120	0	0.0%
0-90	1138.323	100.0%
90-180	0	0.0%
0-180	1138.323	100.0%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	276.5	24.3%	90-100	0	0%
10-20	572.7	50.3%	100-110	0	0%
20-30	219.9	19.3%	110-120	0	0%
30-40	27.06	2.4%	120-130	0	0%
40-50	19.67	1.7%	130-140	0	0%
50-60	13.3	1.2%	140-150	0	0%
60-70	5.836	0.5%	150-160	0	0%
70-80	2.614	0.2%	160-170	0	0%
80-90	0.7433	0.1%	170-180	0	0%

Photometric Data



2.1.2 Electrical, Photometric and Chromaticity Measurements

Test date	2023-12-18	Test Ambient:	25.3
Test Orientation	As intended	Stabilization Time (min)	15
Model Number	DLG0027 (GR4TL)	CCT Setting	3000k

Electrical Measurement:

Sampel No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
#1	120	60	0.119	14.08	0.980

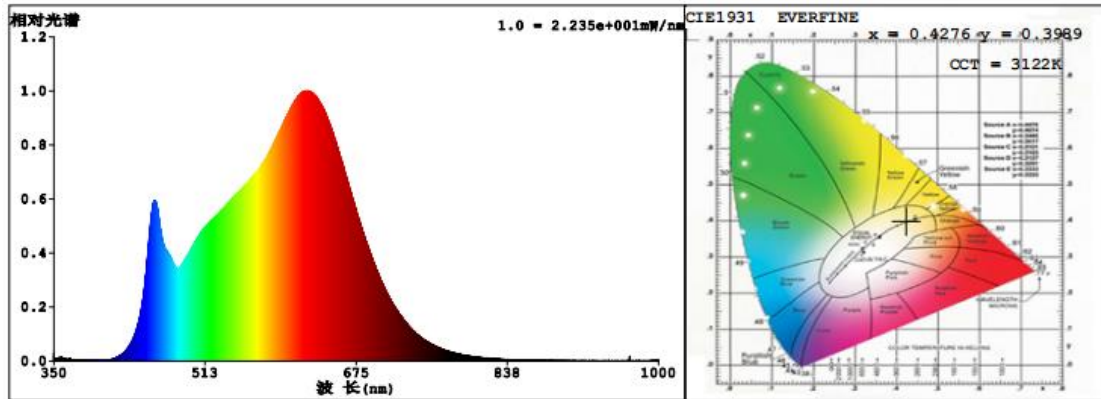
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120	R1	98	R9	74
Frequency (Hz)	60	R2	99	R10	98
CCT (K)	3122	R3	97	R11	97
Duv	-0.000706	R4	95	R12	82
Chromaticity (x, y)	x=0.4276, y=0.3989	R5	97	R13	99
Chromaticity (u', v')	u' =0.2467, v' =0.5179	R6	95	R14	99
Color Rendering Index (CRI)	94.7	R7	91	R15	94
R9	74	R8	87	--	--

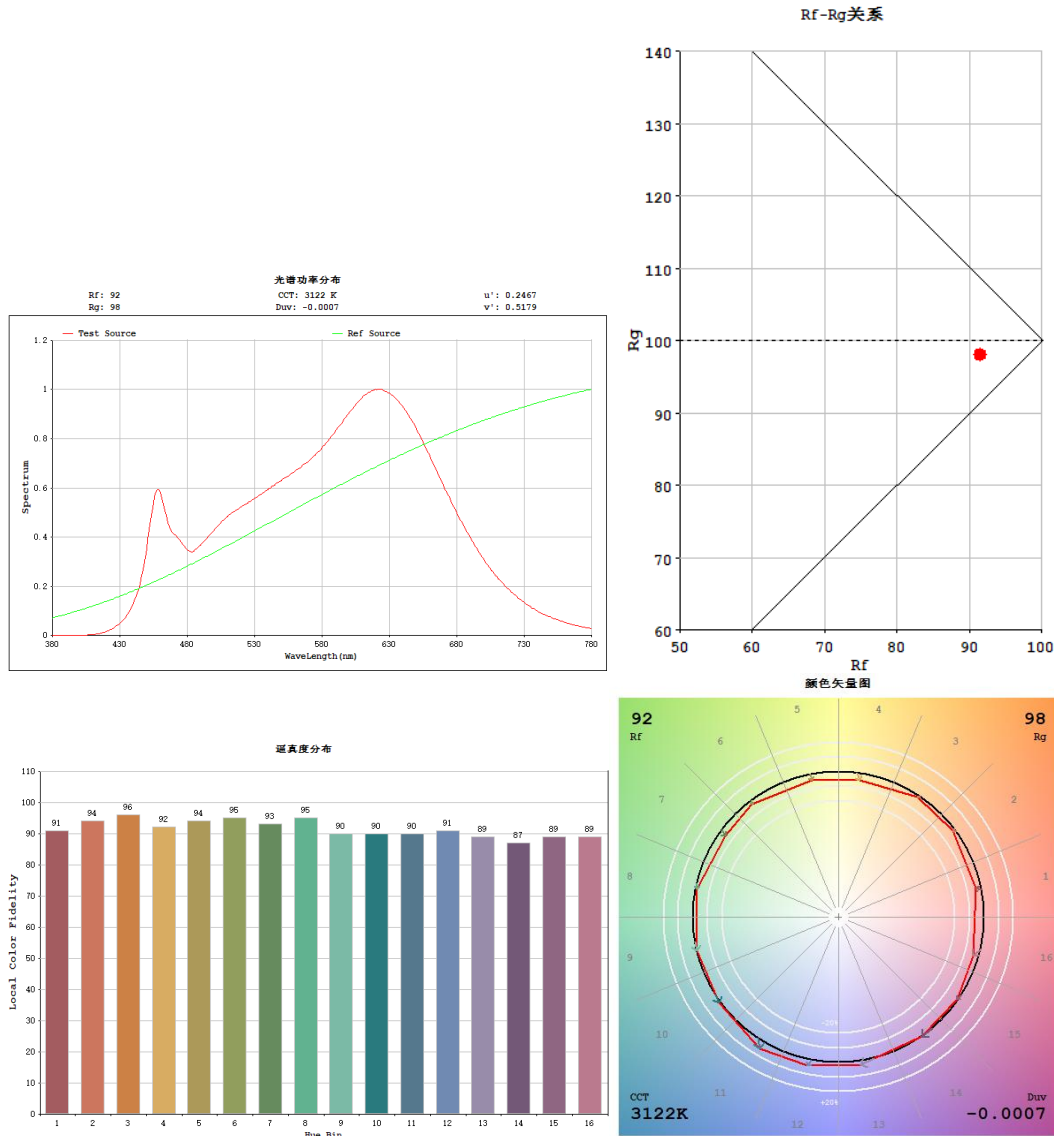
Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120
Frequency (Hz)	60
Total Luminous (lm)	1226.59
Luminous Efficacy (lm/W)	87.12
Beam Angle (°)	37.9
Center Beam Candle Power (cd)	3239

Spectral Power Distribution & Chromaticity Diagram



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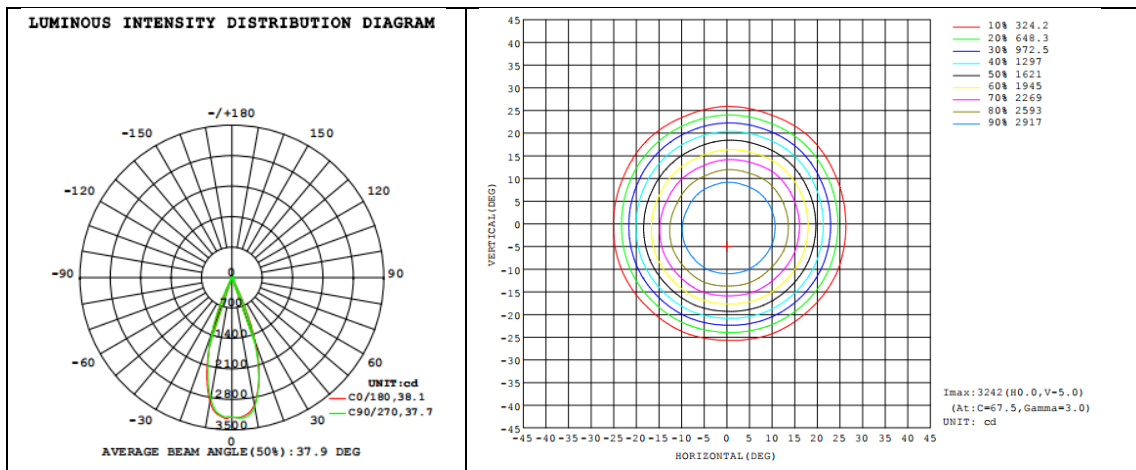


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1152	93.9%
0-40	1181.18	96.3%
0-60	1216.72	99.2%
60-90	9.9442	0.8%
70-100	3.6442	0.3%
90-120	0	0.0%
0-90	1226.664	100.0%
90-180	0	0.0%
0-180	1226.664	100.0%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	297.1	24.2%	90-100	0	0%
10-20	616.9	50.3%	100-110	0	0%
20-30	238	19.4%	110-120	0	0%
30-40	29.18	2.4%	120-130	0	0%
40-50	21.2	1.7%	130-140	0	0%
50-60	14.34	1.2%	140-150	0	0%
60-70	6.3	0.5%	150-160	0	0%
70-80	2.831	0.2%	160-170	0	0%
80-90	0.8132	0.1%	170-180	0	0%

Photometric Data



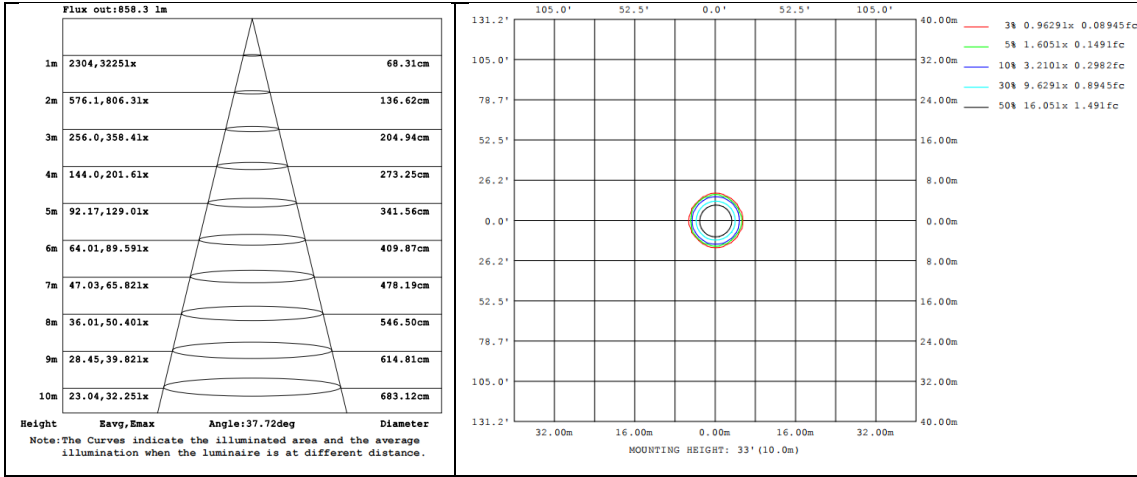


Table--1

UNIT: cd

y (DEG)	C (DEG)																			
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5				
0	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207	3207				
5	3193	3215	3225	3237	3237	3222	3199	3190	3186	3185	3187	3178	3159	3149	3159	3168				
10	2976	3006	3020	3039	3023	3007	2978	2948	2899	2835	2820	2804	2818	2844	2909	2949				
15	2420	2449	2420	2446	2406	2422	2365	2324	2238	2135	2110	2081	2137	2194	2318	2376				
20	1556	1578	1555	1550	1478	1465	1389	1361	1304	1277	1278	1298	1355	1392	1480	1512				
25	562	568	520	497	438	409	354	372	341	308	365	372	453	458	521	536				
30	85.3	85.8	83.7	81.7	77.0	74.9	72.1	69.6	65.5	63.9	65.5	67.7	72.2	74.2	79.0	82.1				
35	46.6	45.7	44.9	44.6	43.7	43.6	43.3	43.5	42.1	41.6	41.8	42.2	43.4	43.5	44.9	45.8				
40	34.9	34.4	33.9	33.9	34.1	34.8	34.8	35.2	34.7	34.1	33.9	34.2	34.3	34.3	35.0	34.9				
45	27.5	26.9	26.7	27.0	27.1	27.7	28.1	28.5	28.1	28.0	27.9	27.7	27.7	27.6	27.7	27.3				
50	20.3	19.9	19.8	20.1	20.4	20.9	21.5	22.2	22.1	22.0	22.0	21.7	21.3	21.0	20.7	20.4				
55	16.1	15.9	15.8	16.1	16.3	16.5	16.7	17.1	17.1	17.1	16.9	16.7	16.5	16.4	16.3	16.2				
60	10.0	9.77	9.71	9.91	10.1	10.4	10.6	10.9	11.1	11.2	11.2	11.0	10.9	10.6	10.5	10.2				
65	5.62	5.52	5.47	5.65	5.74	5.93	6.11	6.31	6.43	6.52	6.49	6.39	6.28	6.05	6.00	5.81				
70	3.35	3.31	3.31	3.38	3.47	3.56	3.70	3.82	3.89	3.91	3.91	3.85	3.76	3.63	3.52	3.42				
75	2.56	2.51	2.54	2.55	2.64	2.70	2.81	2.87	2.94	2.98	2.95	2.92	2.82	2.76	2.66	2.61				
80	1.62	1.56	1.58	1.59	1.65	1.70	1.78	1.82	1.88	1.91	1.90	1.88	1.83	1.78	1.71	1.66				
85	0.62	0.57	0.60	0.59	0.65	0.66	0.73	0.74	0.80	0.85	0.81	0.82	0.76	0.75	0.68	0.67				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

2.1.3 Electrical, Photometric and Chromaticity Measurements

Test date	2023-12-18	Test Ambient:	25.3
Test Orientation	As intended	Stabilization Time (min)	15
Model Number	DLG0027 (GR4TL)	CCT Setting	3500k

Electrical Measurement:

Sampel No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
#1	120	60	0.116	13.71	0.979

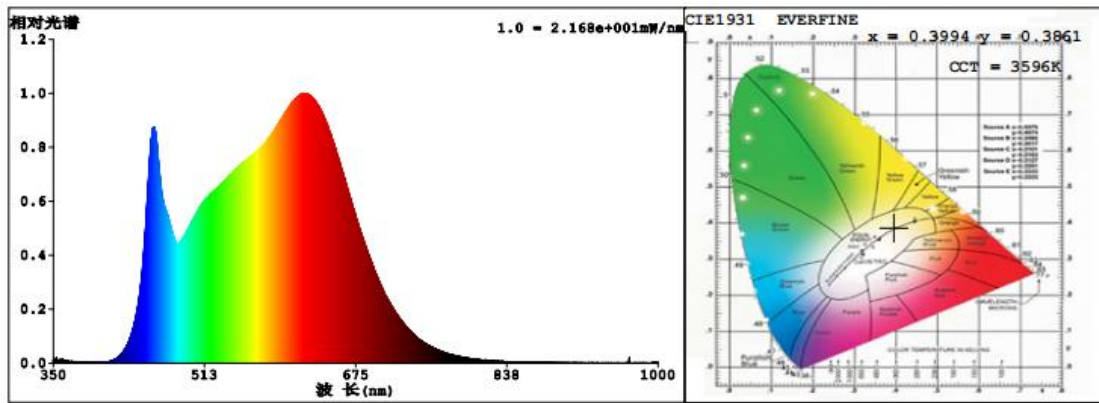
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120	R1	98	R9	78
Frequency (Hz)	60	R2	98	R10	98
CCT (K)	3596	R3	97	R11	96
Duv	-0.00072	R4	94	R12	78
Chromaticity (x, y)	x=0.3994, y=0.3861	R5	96	R13	99
Chromaticity (u', v')	u' =0.2338, v' =0.5084	R6	95	R14	99
Color Rendering Index (CRI)	94.8	R7	92	R15	95
R9	78	R8	88	--	--

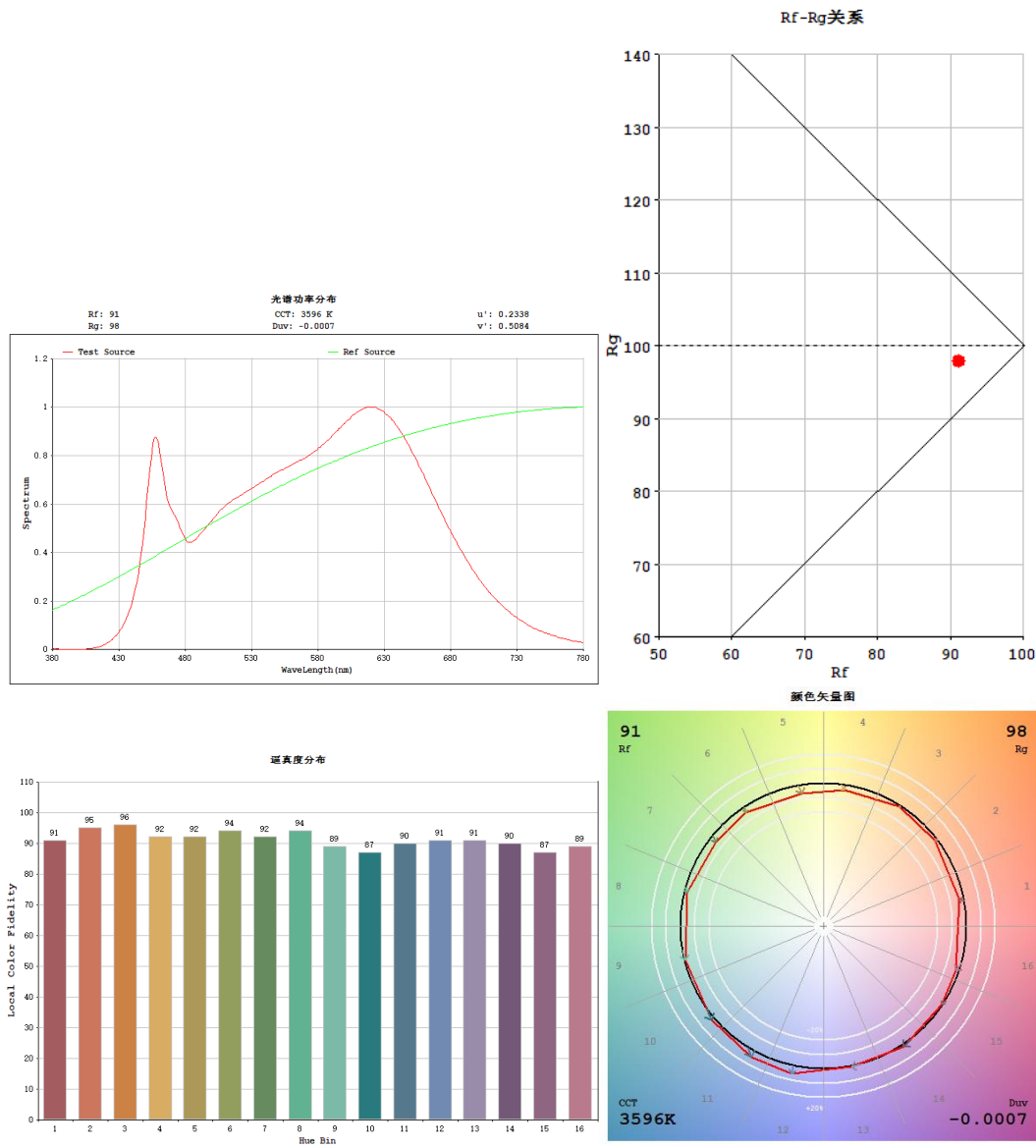
Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120
Frequency (Hz)	60
Total Luminous (lm)	1302.03
Luminous Efficacy (lm/W)	94.98
Beam Angle (°)	37.9
Center Beam Candle Power (cd)	3432

Spectral Power Distribution & Chromaticity Diagram



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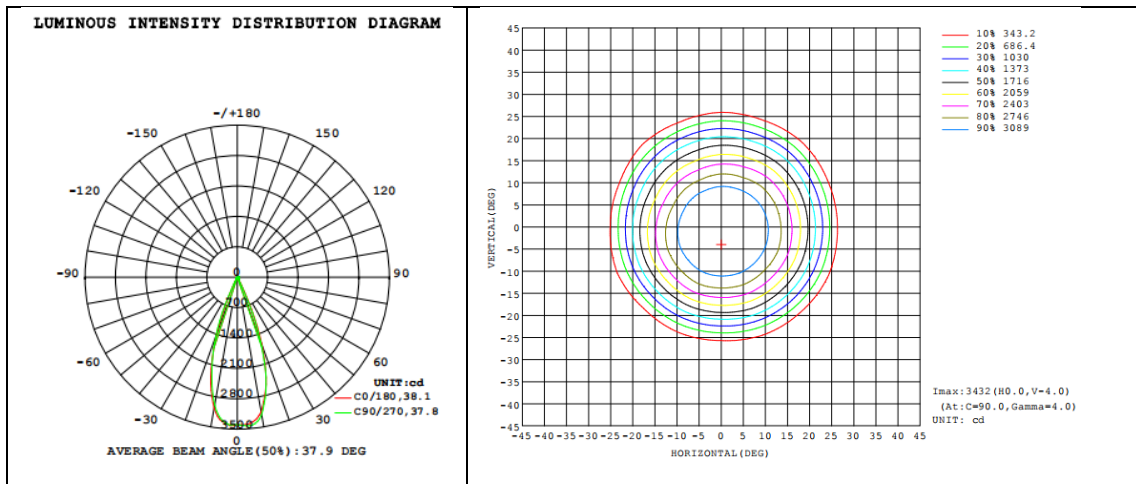


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1222.6	93.9%
0-40	1253.6	96.3%
0-60	1291.33	99.2%
60-90	10.5862	0.8%
70-100	3.8892	0.3%
90-120	0	0.0%
0-90	1301.916	100.0%
90-180	0	0.0%
0-180	1301.916	100.0%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	314.6	24.2%	90-100	0	0%
10-20	654.2	50.2%	100-110	0	0%
20-30	253.8	19.5%	110-120	0	0%
30-40	31	2.4%	120-130	0	0%
40-50	22.51	1.7%	130-140	0	0%
50-60	15.22	1.2%	140-150	0	0%
60-70	6.697	0.5%	150-160	0	0%
70-80	3.016	0.2%	160-170	0	0%
80-90	0.8732	0.1%	170-180	0	0%

Photometric Data



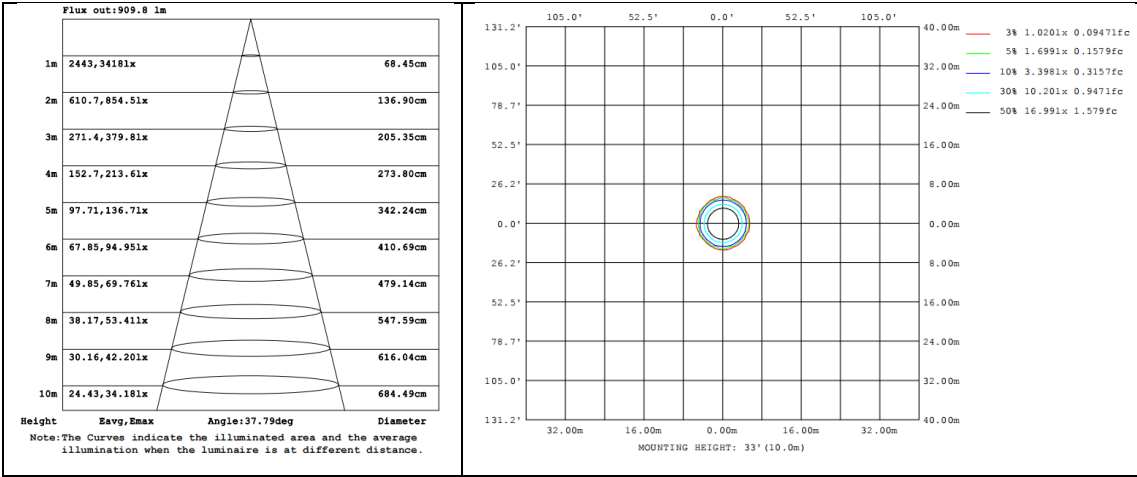


Table--1

UNIT: cd

C (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396	3396			
5	3382	3405	3412	3431	3430	3421	3392	3382	3371	3370	3375	3349	3351	3341	3346	3356			
10	3158	3186	3207	3230	3214	3197	3153	3116	3062	3007	2996	2965	2994	3021	3071	3116			
15	2556	2602	2580	2596	2565	2571	2499	2458	2362	2265	2244	2212	2276	2332	2448	2508			
20	1642	1675	1650	1649	1578	1556	1474	1442	1381	1333	1356	1379	1439	1479	1565	1603			
25	596	608	554	531	473	435	379	431	364	329	423	399	482	490	554	571			
30	90.1	91.4	89.5	87.0	82.2	79.7	76.4	73.7	69.5	67.8	69.8	72.3	76.9	79.1	83.7	87.4			
35	49.3	48.5	47.7	47.3	46.5	46.4	46.0	46.1	44.6	44.2	44.4	44.8	46.1	46.3	47.7	48.5			
40	36.9	36.6	36.1	35.9	36.3	37.0	37.0	37.4	36.8	36.2	36.0	36.3	36.6	36.6	37.1	37.0			
45	29.1	28.6	28.4	28.6	28.9	29.5	29.8	30.2	29.8	29.7	29.6	29.4	29.4	29.4	29.4	28.9			
50	21.5	21.1	21.0	21.3	21.7	22.3	22.8	23.6	23.4	23.3	23.4	23.0	22.7	22.4	22.0	21.6			
55	17.0	16.9	16.8	17.1	17.3	17.5	17.7	18.1	18.1	18.1	18.0	17.7	17.5	17.4	17.3	17.1			
60	10.6	10.4	10.3	10.5	10.7	11.0	11.2	11.6	11.7	11.9	11.9	11.7	11.5	11.3	11.1	10.9			
65	5.97	5.88	5.82	5.98	6.12	6.30	6.51	6.71	6.83	6.93	6.89	6.80	6.67	6.47	6.37	6.17			
70	3.55	3.53	3.52	3.60	3.69	3.79	3.94	4.06	4.13	4.16	4.17	4.10	4.01	3.86	3.74	3.63			
75	2.71	2.68	2.70	2.73	2.81	2.89	3.00	3.06	3.13	3.16	3.14	3.11	3.01	2.94	2.83	2.78			
80	1.71	1.67	1.69	1.70	1.77	1.82	1.90	1.95	2.00	2.04	2.02	2.01	1.94	1.90	1.81	1.77			
85	0.67	0.61	0.65	0.63	0.70	0.72	0.79	0.80	0.86	0.91	0.87	0.88	0.82	0.81	0.74	0.72			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

2.1.4 Electrical, Photometric and Chromaticity Measurements

Test date	2023-12-18	Test Ambient:	25.3
Test Orientation	As intended	Stabilization Time (min)	15
Model Number	DLG0027 (GR4TL)	CCT Setting	4000k

Electrical Measurement:

Sampel No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
#1	120	60	0.116	13.75	0.979

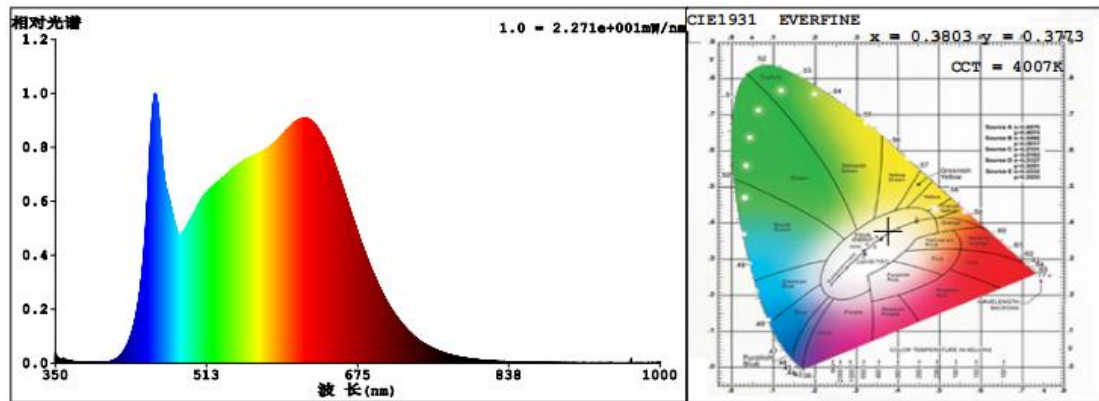
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120	R1	97	R9	77
Frequency (Hz)	60	R2	99	R10	99
CCT (K)	4007	R3	98	R11	94
Duv	0.000317	R4	92	R12	74
Chromaticity (x, y)	x=0.3803, y=0.3773	R5	95	R13	99
Chromaticity (u', v')	u' =0.2248, v' =0.5018	R6	96	R14	99
Color Rendering Index (CRI)	94.6	R7	92	R15	94
R9	77	R8	88	--	--

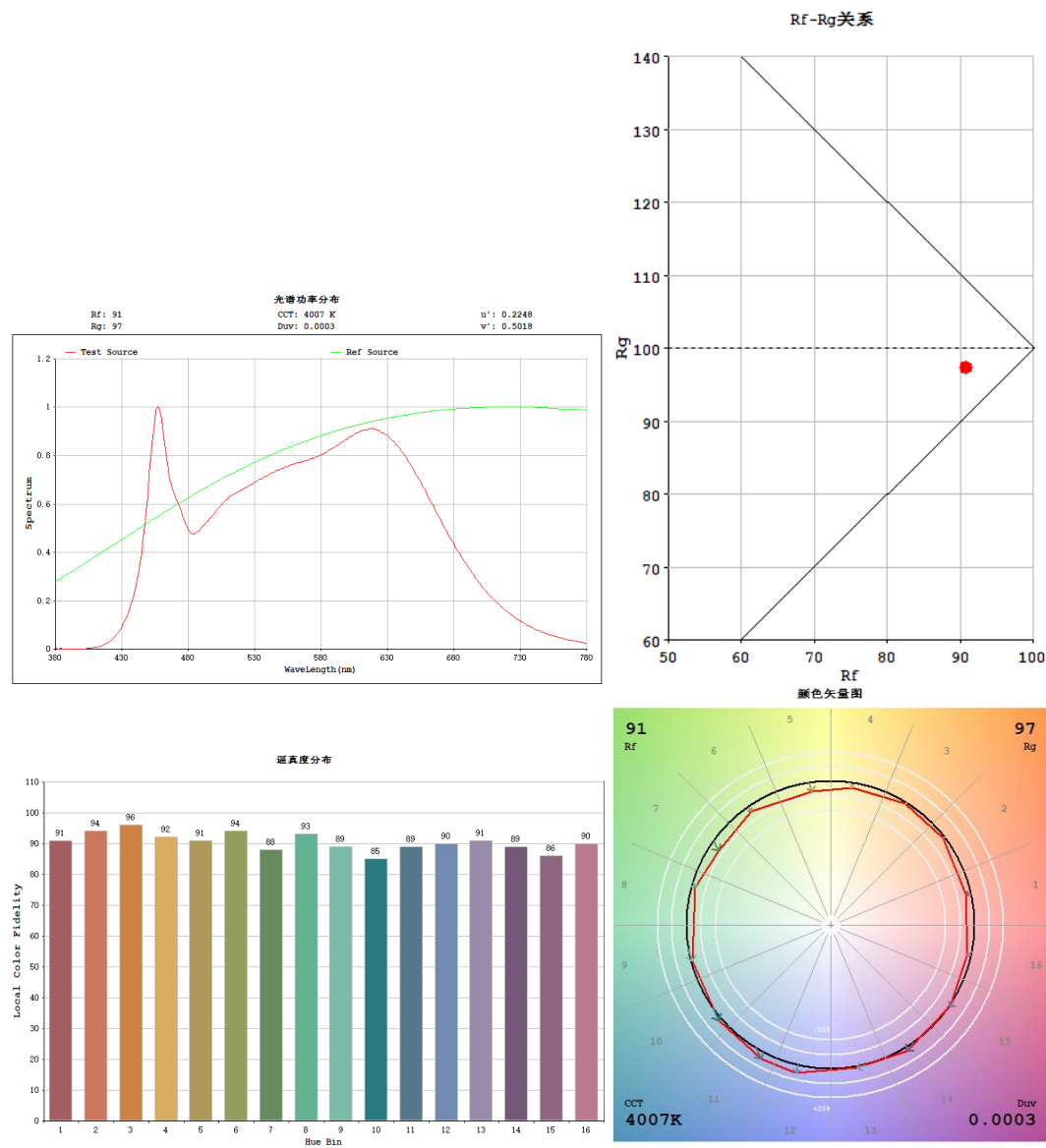
Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120
Frequency (Hz)	60
Total Luminous (lm)	1353.42
Luminous Efficacy (lm/W)	98.41
Beam Angle (°)	38.0
Center Beam Candle Power (cd)	3571

Spectral Power Distribution & Chromaticity Diagram



TM30

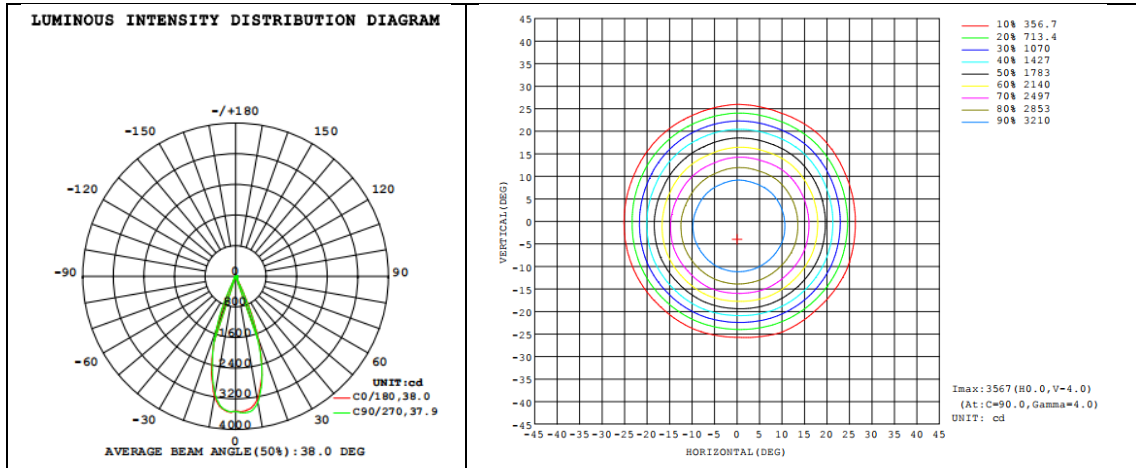


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1270.8	93.9%
0-40	1303.1	96.3%
0-60	1342.39	99.2%
60-90	11.0387	0.8%
70-100	4.0627	0.3%
90-120	0	0.0%
0-90	1353.429	100.0%
90-180	0	0.0%
0-180	1353.429	100.0%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	326.7	24.1%	90-100	0	0%
10-20	679.7	50.2%	100-110	0	0%
20-30	264.4	19.5%	110-120	0	0%
30-40	32.3	2.4%	120-130	0	0%
40-50	23.44	1.7%	130-140	0	0%
50-60	15.85	1.2%	140-150	0	0%
60-70	6.976	0.5%	150-160	0	0%
70-80	3.147	0.2%	160-170	0	0%
80-90	0.9157	0.1%	170-180	0	0%

Photometric Data



2.1.5 Electrical, Photometric and Chromaticity Measurements

Test date	2023-12-18	Test Ambient:	25.3
Test Orientation	As intended	Stabilization Time (min)	15
Model Number	DLG0027 (GR4TL)	CCT Setting	5000k

Electrical Measurement:

Sampel No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor
#1	120	60	0.122	14.41	0.981

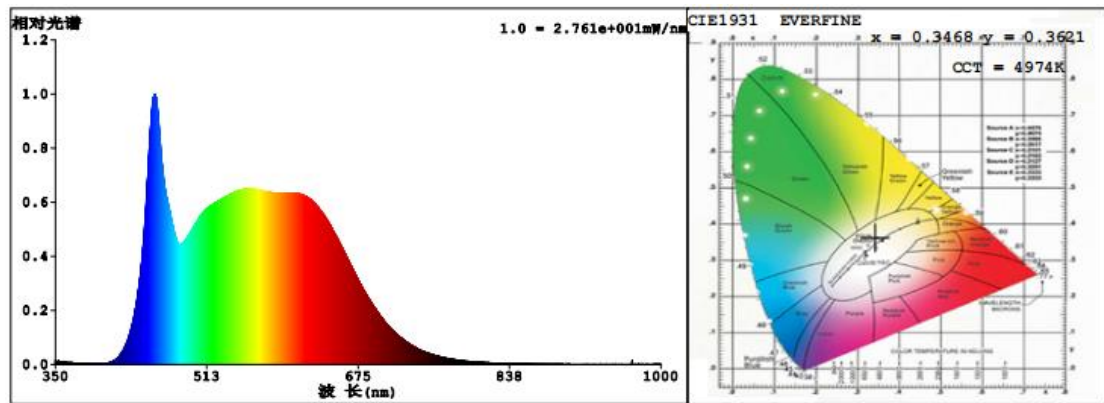
Chromaticity Measurement - Sphere-Spectroradiometer Method:

Parameter	Result	Special Color Rendering Indices			
Test Voltage (V)	120	R1	92	R9	64
Frequency (Hz)	60	R2	97	R10	93
CCT (K)	4974	R3	98	R11	88
Duv	0.00454	R4	87	R12	67
Chromaticity (x, y)	x=0.3468, y=0.3621	R5	90	R13	94
Chromaticity (u', v')	u' =0.2085, v' =0.4900	R6	94	R14	99
Color Rendering Index (CRI)	91.9	R7	91	R15	89
R9	64	R8	84	--	--

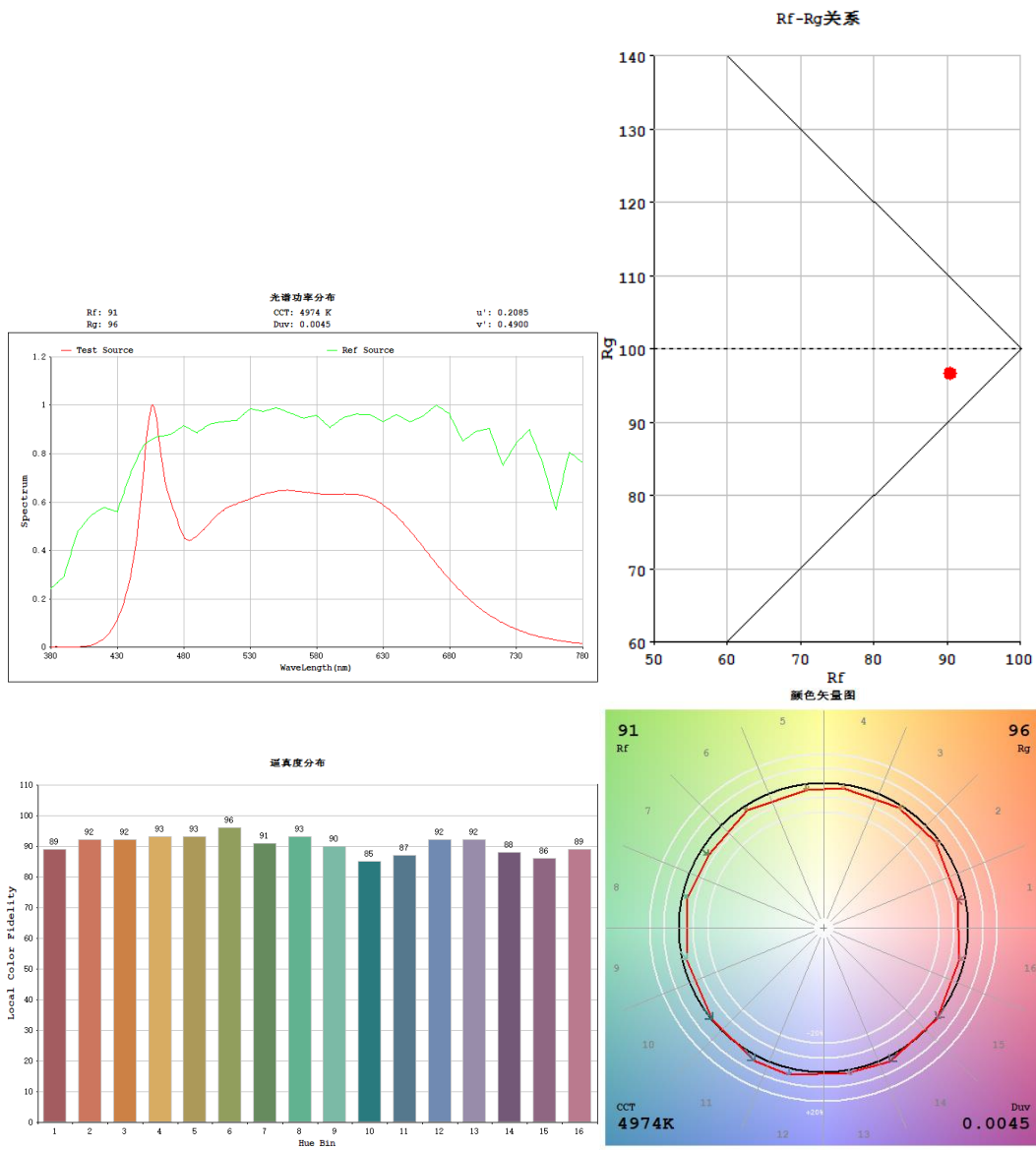
Photometric Measurement – Goniophotometer Method:

Parameter	Result
Test Voltage (V)	120
Frequency (Hz)	60
Total Luminous (lm)	1336.28
Luminous Efficacy (lm/W)	92.74
Beam Angle (°)	38.0
Center Beam Candle Power (cd)	3517

Spectral Power Distribution & Chromaticity Diagram



TM30

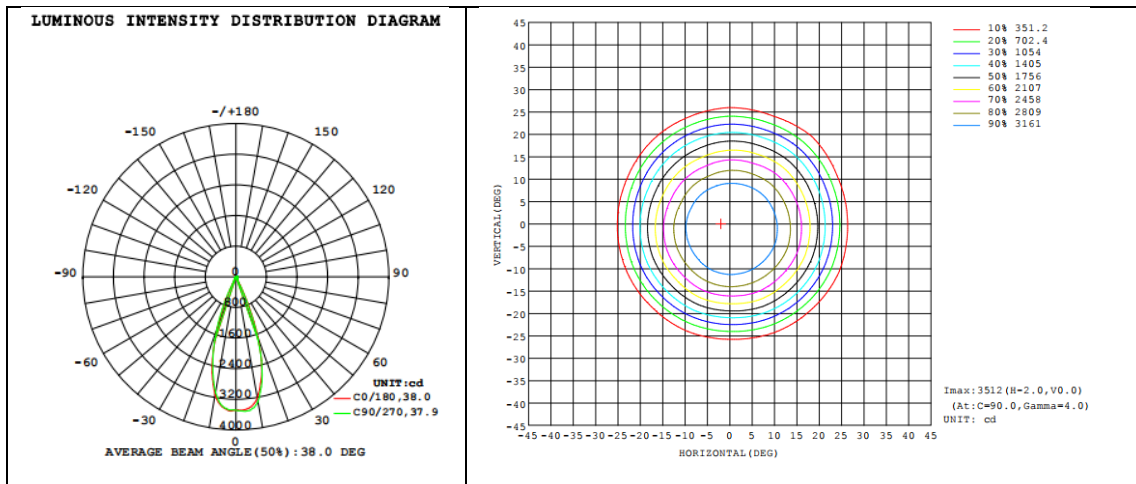


Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1254.6	93.9%
0-40	1286.57	96.3%
0-60	1325.4	99.2%
60-90	10.9029	0.8%
70-100	4.0119	0.3%
90-120	0	0.0%
0-90	1336.303	100.0%
90-180	0	0.0%
0-180	1336.303	100.0%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	321.8	24.1%	90-100	0	0%
10-20	670.7	50.2%	100-110	0	0%
20-30	262.1	19.6%	110-120	0	0%
30-40	31.97	2.4%	120-130	0	0%
40-50	23.17	1.7%	130-140	0	0%
50-60	15.66	1.2%	140-150	0	0%
60-70	6.891	0.5%	150-160	0	0%
70-80	3.109	0.2%	160-170	0	0%
80-90	0.9029	0.1%	170-180	0	0%

Photometric Data



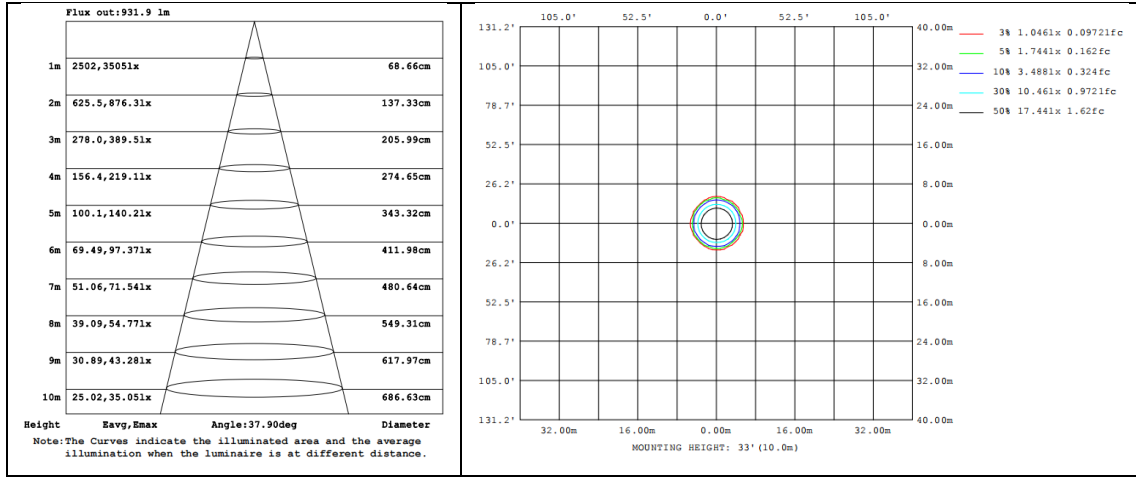


Table--1 UNIT: cd

C (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483	3483
5	3462	3480	3491	3511	3514	3500	3472	3442	3452	3432	3439	3418	3433	3416	3416	3432
10	3221	3260	3284	3315	3316	3279	3214	3173	3136	3074	3064	3032	3067	3096	3142	3171
15	2611	2667	2663	2689	2660	2642	2557	2494	2415	2319	2305	2294	2351	2384	2492	2551
20	1683	1720	1714	1717	1634	1603	1507	1472	1414	1362	1395	1424	1481	1515	1596	1634
25	616	630	580	557	496	452	394	381	379	343	374	421	504	510	573	590
30	92.8	93.8	93.6	91.3	85.7	82.1	78.6	75.6	71.6	69.8	72.3	75.0	79.7	81.6	86.0	89.5
35	50.7	50.0	49.4	49.2	48.1	47.7	47.3	47.4	45.9	45.4	45.9	46.3	47.8	47.7	48.9	49.9
40	38.0	37.6	37.2	37.2	37.4	38.2	38.1	38.3	37.9	37.2	37.1	37.5	37.7	37.7	38.1	38.0
45	30.0	29.4	29.3	29.6	29.8	30.4	30.6	31.0	30.7	30.5	30.6	30.3	30.4	30.2	30.2	29.7
50	22.0	21.7	21.6	22.0	22.4	22.9	23.4	24.1	24.1	24.0	24.1	23.8	23.4	23.0	22.6	22.1
55	17.6	17.3	17.3	17.6	17.8	18.0	18.2	18.6	18.6	18.6	18.5	18.3	18.0	17.9	17.7	17.6
60	10.9	10.7	10.6	10.8	11.0	11.3	11.5	11.9	12.1	12.2	12.3	12.0	11.9	11.6	11.4	11.1
65	6.13	6.04	5.98	6.18	6.28	6.50	6.67	6.90	7.02	7.12	7.10	6.99	6.88	6.65	6.57	6.33
70	3.66	3.63	3.63	3.69	3.80	3.91	4.06	4.17	4.26	4.28	4.29	4.24	4.14	3.99	3.86	3.73
75	2.80	2.74	2.78	2.82	2.91	2.97	3.09	3.14	3.23	3.25	3.24	3.21	3.11	3.04	2.92	2.86
80	1.76	1.72	1.75	1.76	1.83	1.88	1.96	2.00	2.07	2.10	2.08	2.07	2.02	1.97	1.87	1.82
85	0.69	0.64	0.68	0.66	0.73	0.74	0.82	0.83	0.89	0.94	0.90	0.92	0.85	0.84	0.76	0.74
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Model Number	CCT setting	Test Voltage(V)	Flux(lm)	P(W)	Luminous Efficacy lm/W
DLG0027 (GR4TL)	2700K setting	120	1138.35	14.41	79.02
	3000K setting	120	1226.59	14.08	87.12
	3500K setting	120	1302.03	13.71	94.98
	4000K setting	120	1353.42	13.75	98.41
	5000K setting	120	1336.28	14.41	92.74