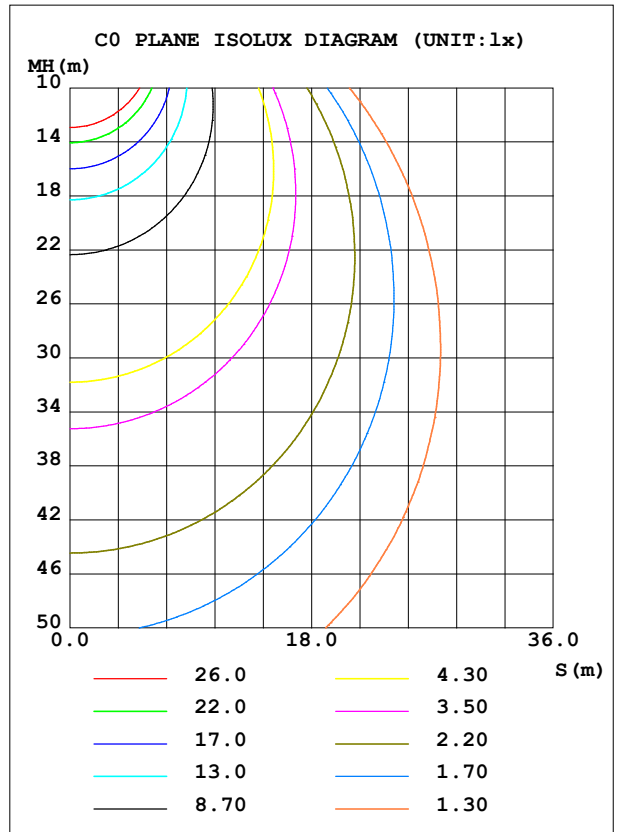
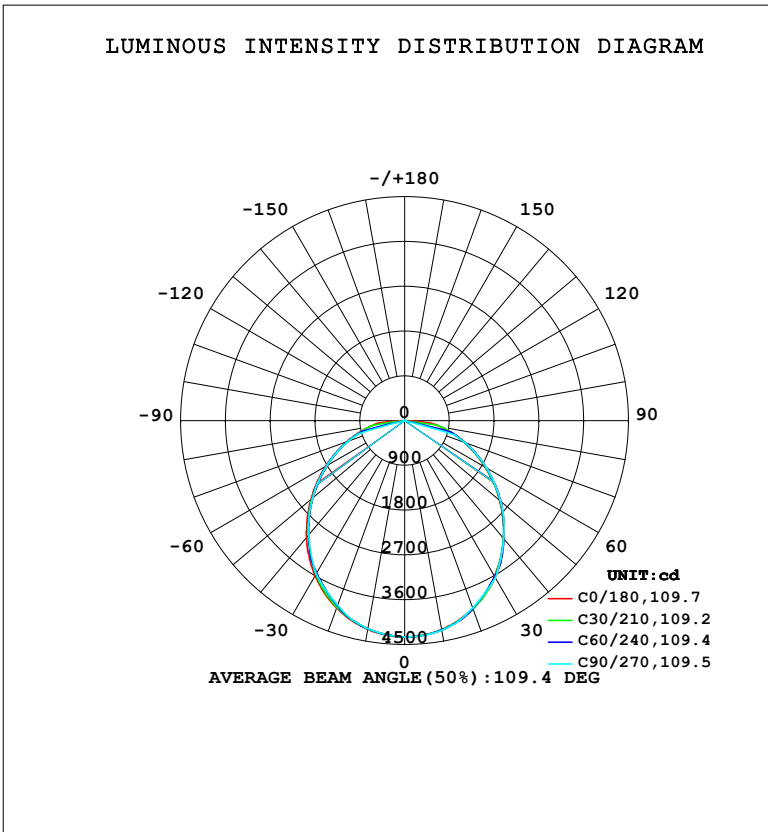


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	GK-CNX-0150-S01S	Imax (cd)	4347	S/MH (C0/180)	1.24
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	12022	η UP, DN (C0-180)	0.0, 50.6
NOMINAL FLUX (lm)	12021.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.2	η down (%)	100.0	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: 杨守真
 Test Date: 2024-11-11

V(B) Range: -75 - 75DEG
 V(B) Interval: 2.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.279
 Humidity: 65.0%
 Test Distance: 8.884m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

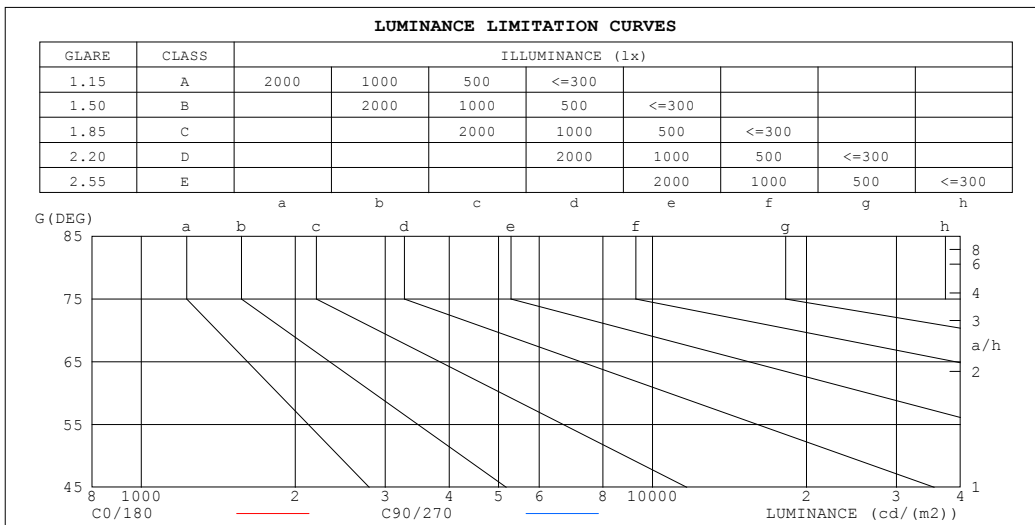
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4263	4274	4281	4268	4259	4245	4249	4250	0- 10	410.6	410.6	3.42,3.42
20	4013	4036	4005	4023	4004	3979	3945	3995	10- 20	1171	1582	13.2,13.2
30	3611	3609	3650	3592	3599	3533	3561	3549	20- 30	1754	3335	27.7,27.7
40	3088	3122	3100	3108	3068	3033	2998	3044	30- 40	2089	5424	45.1,45.1
50	2487	2511	2517	2483	2458	2402	2413	2434	40- 50	2136	7560	62.9,62.9
60	1870	1899	1904	1863	1834	1790	1807	1830	50- 60	1929	9489	78.9,78.9
70	1266	1308	1290	1272	1237	1212	1200	1247	60- 70	1531	11020	91.7,91.7
80	737.6	0.8122	0	0.7792	722.0	0.7298	0	0.7593	70- 80	873.0	11893	98.9,98.9
90	3.146	0	0	0	3.075	0	0	0	80- 90	129.0	12022	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	433980	0
80	353971	0
75	317959	168239
70	308361	314419
65	308181	314943
60	311634	317328
55	316900	321190
50	322443	326376
45	329036	332469

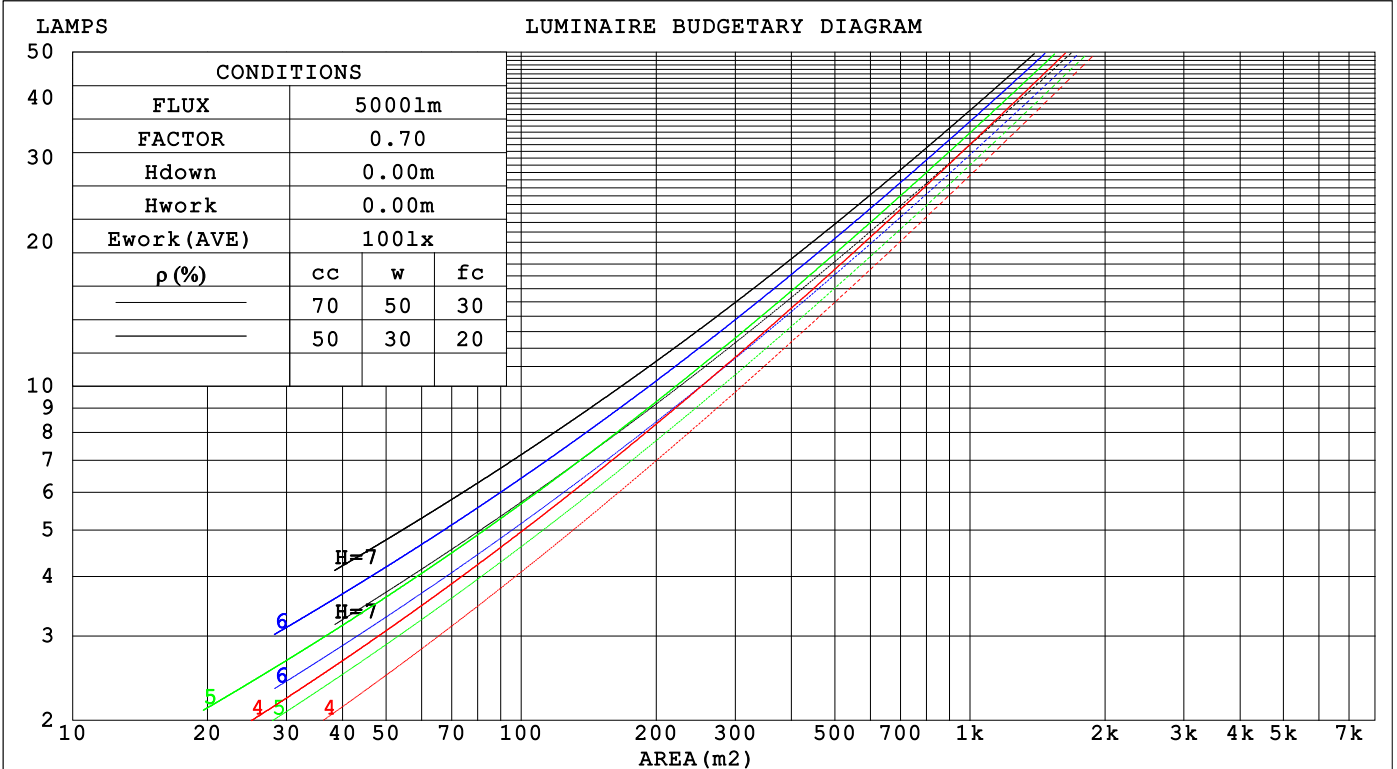
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.75	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz								
Lamp Flux:12021.8x1 lm								
NAME: Gaia S Hight Bay			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.:			SUR.:			Shielding Angle:		

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.303	.172	.055	.296	.169	.054	.283	.162	.052	.271	.156	.050	.259	.150	.048	
2.0	.289	.158	.049	.282	.156	.048	.271	.151	.047	.260	.146	.046	.250	.141	.045	
3.0	.268	.143	.043	.263	.141	.042	.252	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.037	.218	.118	.036	
5.0	.229	.117	.034	.225	.116	.034	.217	.113	.033	.209	.111	.033	.202	.108	.032	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.030	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027	
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.152	.075	.021	.147	.074	.021	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.075	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz										
Lamp Flux:12021.8x1 lm										
NAME: Gaia S Hight Bay					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	24.3	25.9	24.6	26.1	26.3	24.4	25.9	24.7	26.1	26.3
3H	26.0	27.4	26.3	27.7	27.9	26.1	27.5	26.4	27.8	28.0
4H	26.9	28.2	27.2	28.4	28.7	26.7	28.1	27.0	28.3	28.6
6H	27.6	28.9	28.0	29.2	29.4	26.6	27.9	26.9	28.1	28.4
8H	28.0	29.2	28.3	29.5	29.8	26.6	27.8	26.9	28.1	28.3
12H	28.3	29.5	28.7	29.8	30.1	26.5	27.7	26.9	28.0	28.3
4H 2H	25.0	26.4	25.3	26.6	26.9	25.1	26.4	25.4	26.7	26.9
3H	26.9	28.1	27.3	28.4	28.7	27.0	28.2	27.4	28.5	28.8
4H	27.9	29.0	28.3	29.3	29.6	27.7	28.8	28.1	29.1	29.4
6H	28.9	29.8	29.3	30.2	30.5	27.6	28.6	28.0	28.9	29.3
8H	29.3	30.2	29.7	30.6	31.0	27.6	28.5	28.0	28.8	29.2
12H	29.8	30.6	30.2	31.0	31.4	27.5	28.3	28.0	28.7	29.1
8H 4H	28.3	29.2	28.7	29.5	29.9	28.1	29.0	28.5	29.3	29.7
6H	29.5	30.2	29.9	30.6	31.0	28.0	28.7	28.4	29.1	29.6
8H	30.1	30.7	30.5	31.1	31.6	28.0	28.6	28.4	29.0	29.5
12H	30.7	31.2	31.1	31.7	32.1	27.9	28.5	28.4	28.9	29.4
12H 4H	28.3	29.1	28.7	29.4	29.8	28.1	28.9	28.6	29.3	29.7
6H	29.4	30.1	29.9	30.5	30.9	28.0	28.7	28.5	29.1	29.6
8H	30.0	30.6	30.5	31.0	31.5	28.0	28.6	28.5	29.0	29.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.2 / - 0.5					+ 0.5 / - 1.2				

CIE Pub.117, 12022 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.6)
 Area: 0.012 m2

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:杨守真
 Test Date:2024-11-11

V(B) Range:-75 - 75DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
 Humidity:65.0%
 Test Distance:8.884m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

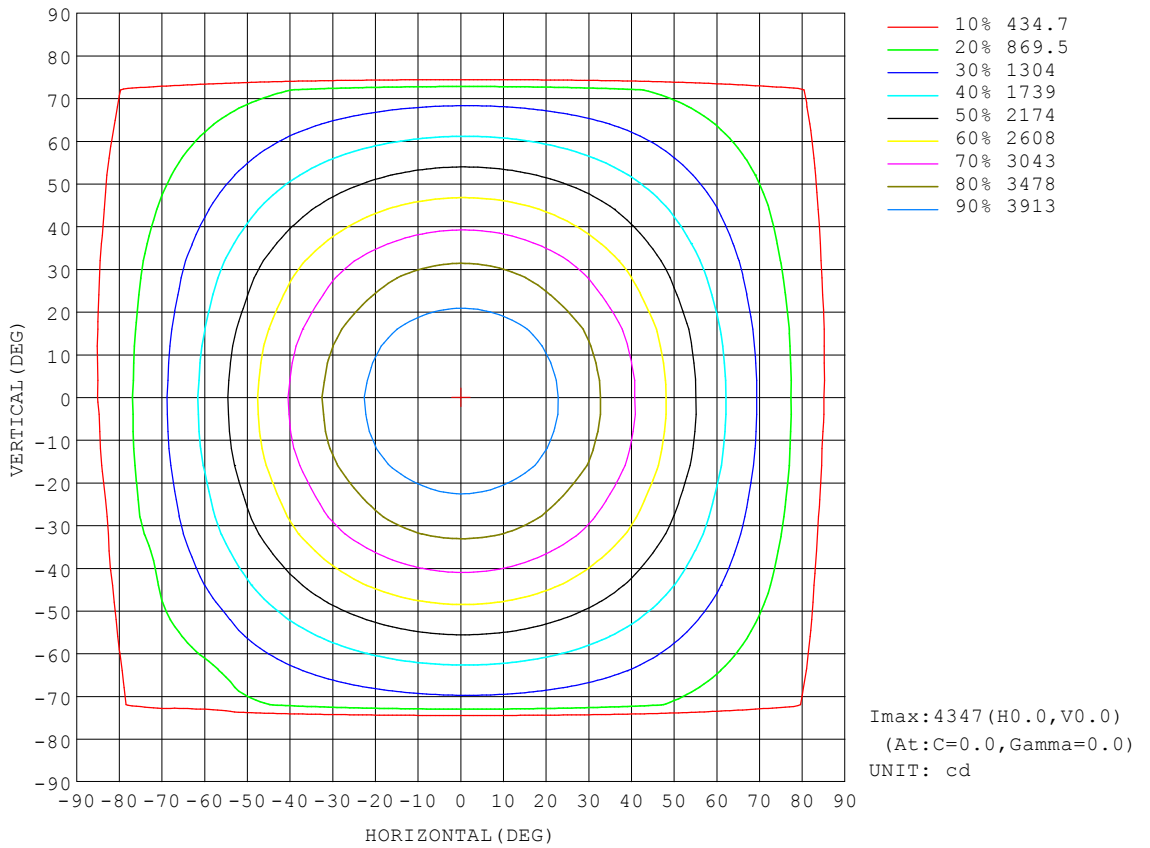
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	48	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	65	57
1.50	88	78	72	87	78	71	84	76	70	62
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	85	97	90	85	93	87	83	74
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	107	102	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

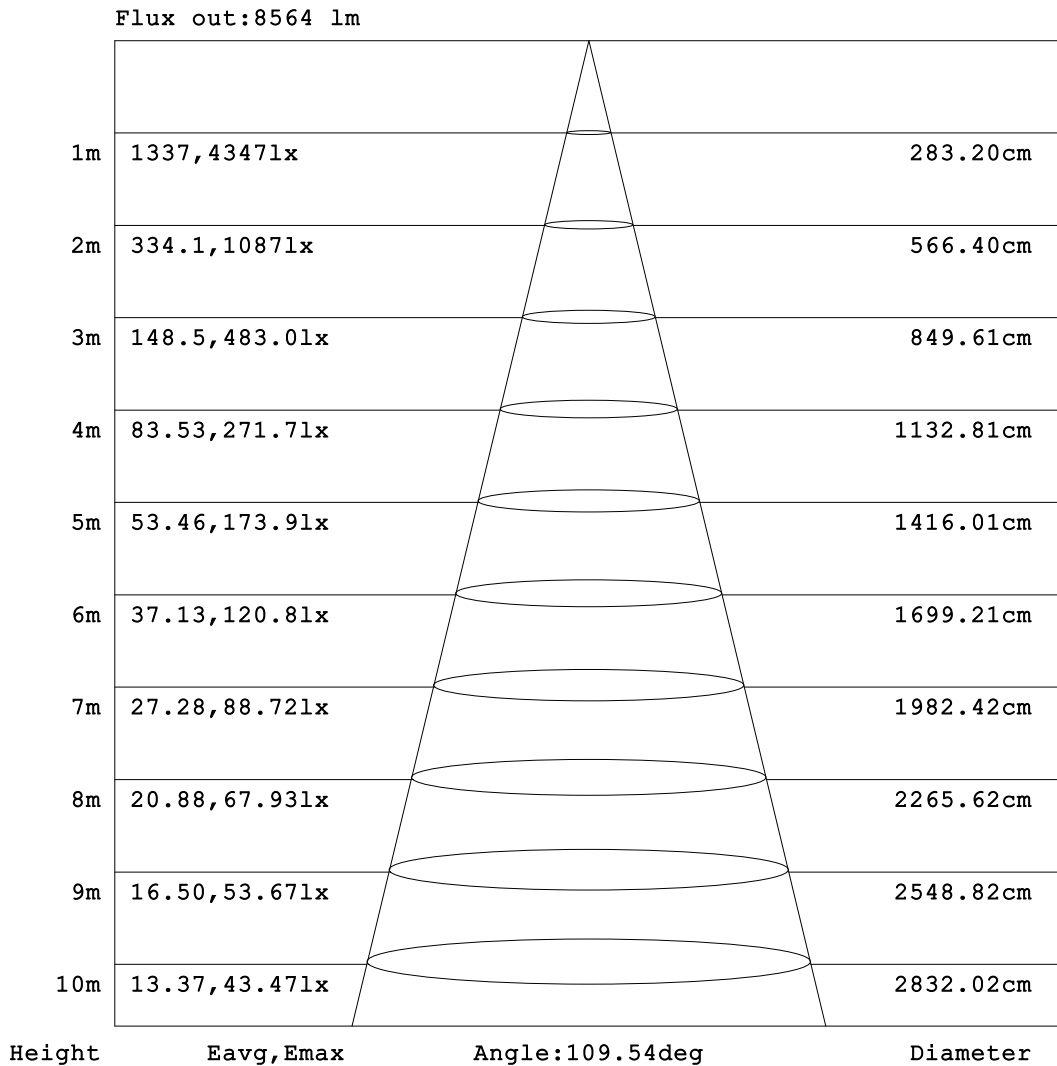


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: 杨守真
Test Date: 2024-11-11

V(B) Range: -75 - 75DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity: 65.0%
Test Distance: 8.884m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



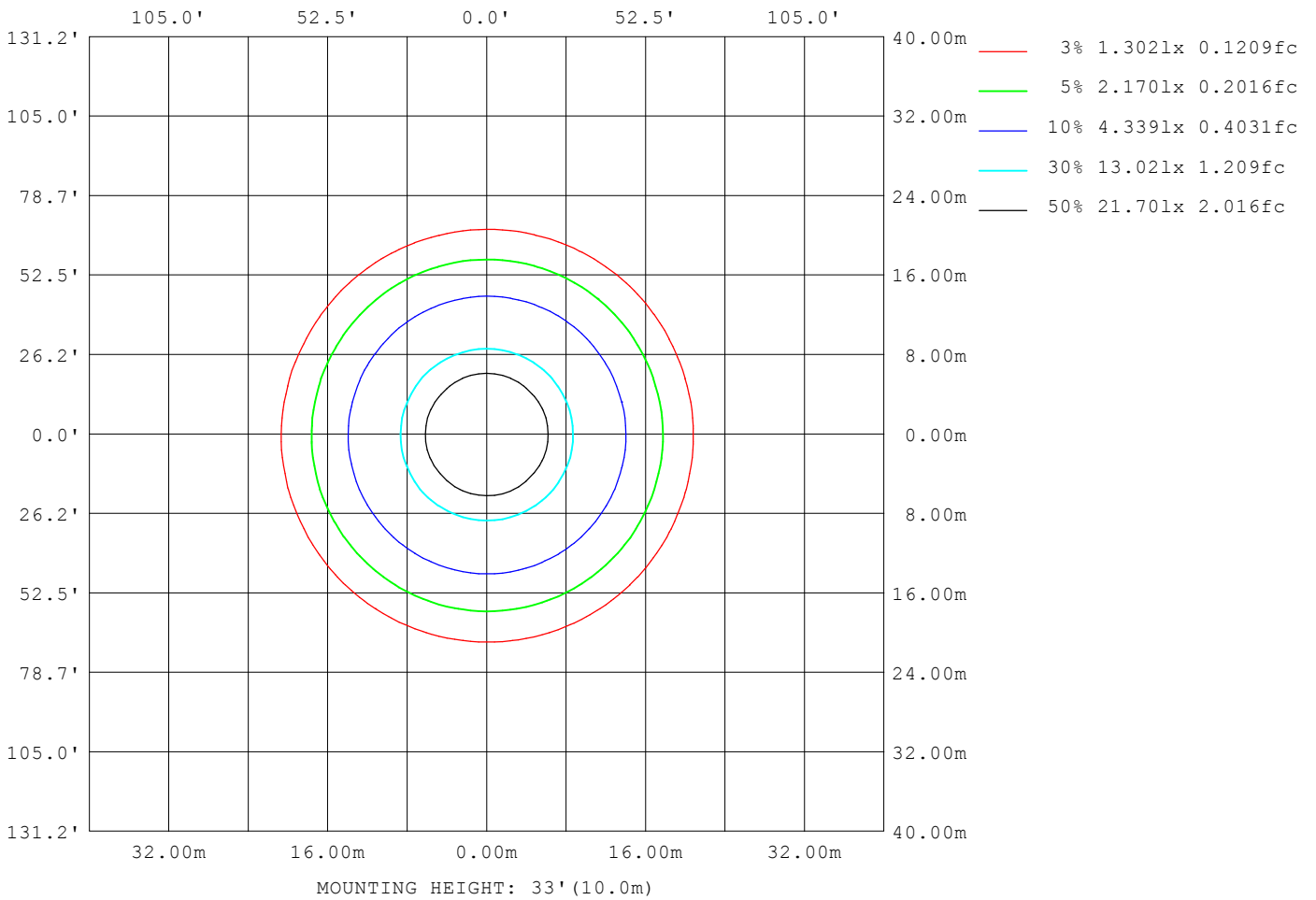
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

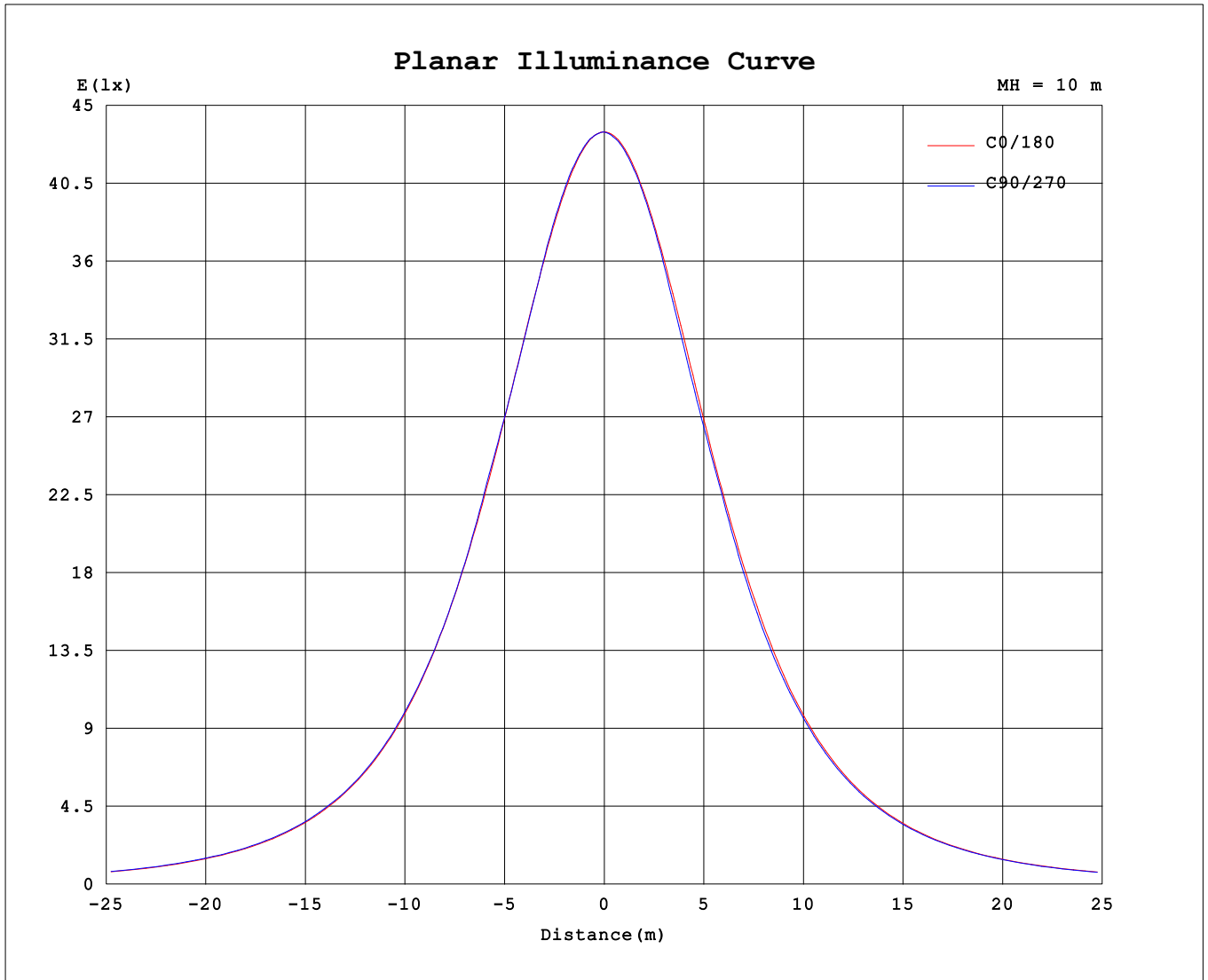
AvgL	cd/m2
L_0~180 (65) av	305002
L_0~180 (75) av	314512
L_0~180 (85) av	432010
L_90~270 (65) av	305699
L_90~270 (75) av	161214
L_90~270 (85) av	0
L_45 (65) av	305293
L_45 (75) av	316679
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.6870A P:150.40W PF:0.9940 Freq:50.00Hz Lamp Flux:12021.8x1 lm		
NAME: Gaia S Hight Bay	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

γ (DEG) \ C (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347	4347				
5	4315	4316	4316	4317	4318	4318	4318	4318	4318	4319	4319	4320	4321	4322	4324				
10	4248	4247	4247	4247	4248	4248	4250	4252	4254	4254	4256	4256	4256	4257	4259				
15	4134	4137	4138	4138	4138	4140	4142	4144	4143	4145	4148	4151	4153	4152	4154				
20	3952	3956	3962	3969	3979	3989	3995	3995	3995	3998	3998	4002	4006	4008	4008				
25	3755	3756	3758	3761	3767	3773	3785	3800	3812	3814	3813	3816	3822	3826	3826				
30	3557	3554	3550	3547	3545	3546	3549	3557	3572	3592	3599	3597	3601	3610	3610				
35	3288	3293	3300	3308	3319	3310	3305	3302	3310	3324	3345	3353	3352	3361	3367				
40	3004	3006	3009	3016	3022	3032	3044	3043	3036	3040	3054	3078	3080	3082	3095				
45	2720	2721	2722	2723	2726	2729	2736	2748	2760	2753	2754	2767	2786	2786	2796				
50	2420	2422	2426	2430	2433	2434	2434	2436	2445	2459	2454	2456	2475	2483	2491				
55	2116	2118	2120	2123	2128	2132	2139	2138	2135	2139	2154	2149	2157	2179	2178				
60	1813	1816	1818	1821	1824	1829	1830	1835	1839	1834	1837	1850	1845	1863	1866				
65	1512	1515	1519	1523	1527	1531	1535	1535	1535	1539	1538	1538	1548	1548	1560				
70	1211	1217	1223	1230	1237	1243	1247	1249	1248	1248	1250	1253	1252	1254	1267				
75	707	886	930	942	954	964	972	976	978	977	977	981	987	983	991				
80	0.00	0.00	0.00	0.00	0.00	0.00	0.76	494	723	728	732	736	740	742	736				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.5	528	529	495			
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				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:杨守真
Test Date:2024-11-11

V(B) Range:-75 - 75DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.279
Humidity:65.0%
Test Distance:8.884m [K=1.0000]
Remarks: