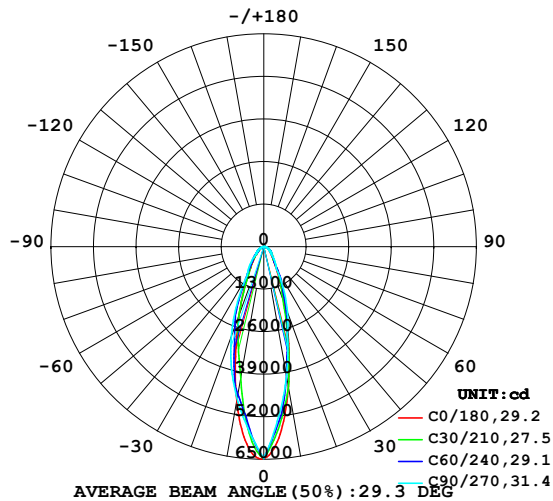


## LUMINAIRE PHOTOMETRIC TEST REPORT

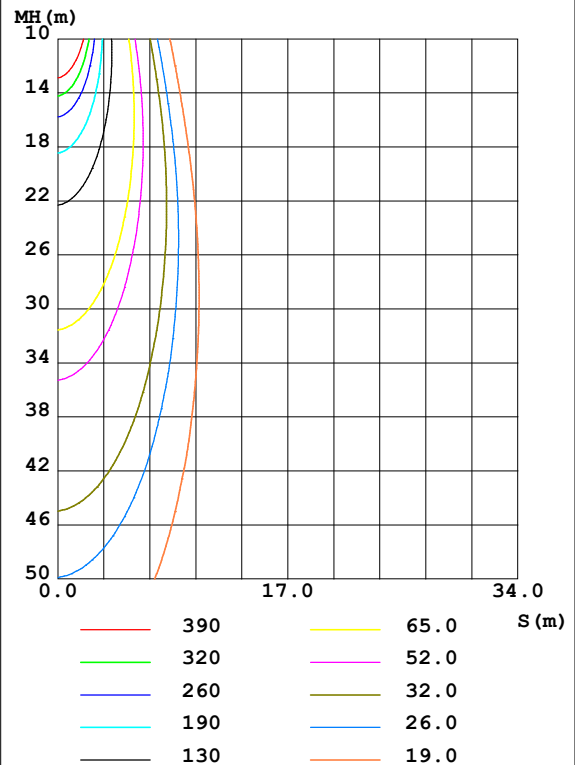
Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.81 lm/W			
MODEL	GHSL-32-U	I <sub>max</sub> (cd)	64853	S/MH(C0/180)	0.51
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	30736	□ UP,DN(C0-180)	0.0,46.7
NOMINAL FLUX(lm)	30736	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,53.3
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4340	4119	4022	3911	4780	4330	4717	4517	0- 10	4879	4879	15.9,15.9
20	1882	1947	2122	1783	2204	2256	2900	2456	10- 20	8586	13466	43.8,43.8
30	774.2	849.2	778.4	877.1	912.8	1070	1027	1001	20- 30	6664	20129	65.5,65.5
40	407.4	417.7	478.1	430.5	452.2	494.5	587.5	458.4	30- 40	4009	24139	78.5,78.5
50	262.9	272.7	274.8	278.3	281.9	307.5	304.9	289.8	40- 50	2784	26923	87.6,87.6
60	166.0	170.7	168.4	167.3	176.6	183.2	179.5	177.8	50- 60	2021	28944	94.2,94.2
70	79.17	86.76	88.12	77.91	87.10	85.54	92.18	87.86	60- 70	1265	30209	98.3,98.3
80	13.88	18.32	0	12.62	19.58	14.33	0	16.73	70- 80	502.4	30712	99.9,99.9
90	0.2942	0	0	0	0.2562	0	0	0	80- 90	24.60	30736	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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25652 lm

%lum = 83.5%

%lamp = 83.5%

Conical surface Flux(120deg): 28944 lm

%lum = 94.2%

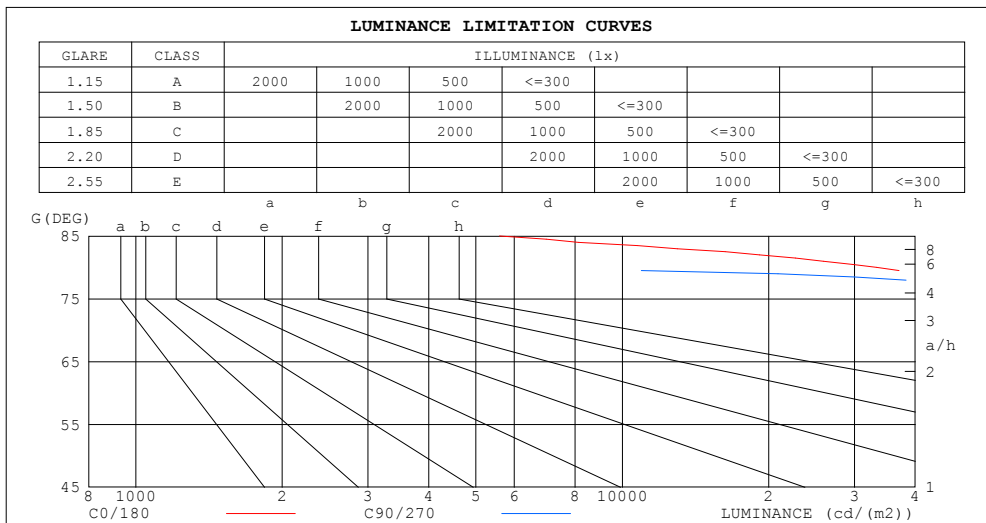
%lamp = 94.2%

H(□) Range:-90 - 90DEG  
 H(□) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Gu  
 Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:7.468m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5589	0
80	33312	0
75	68407	76993
70	96454	107358
65	119152	126242
60	138345	140341
55	154405	160802
50	170432	178131
45	190050	193135

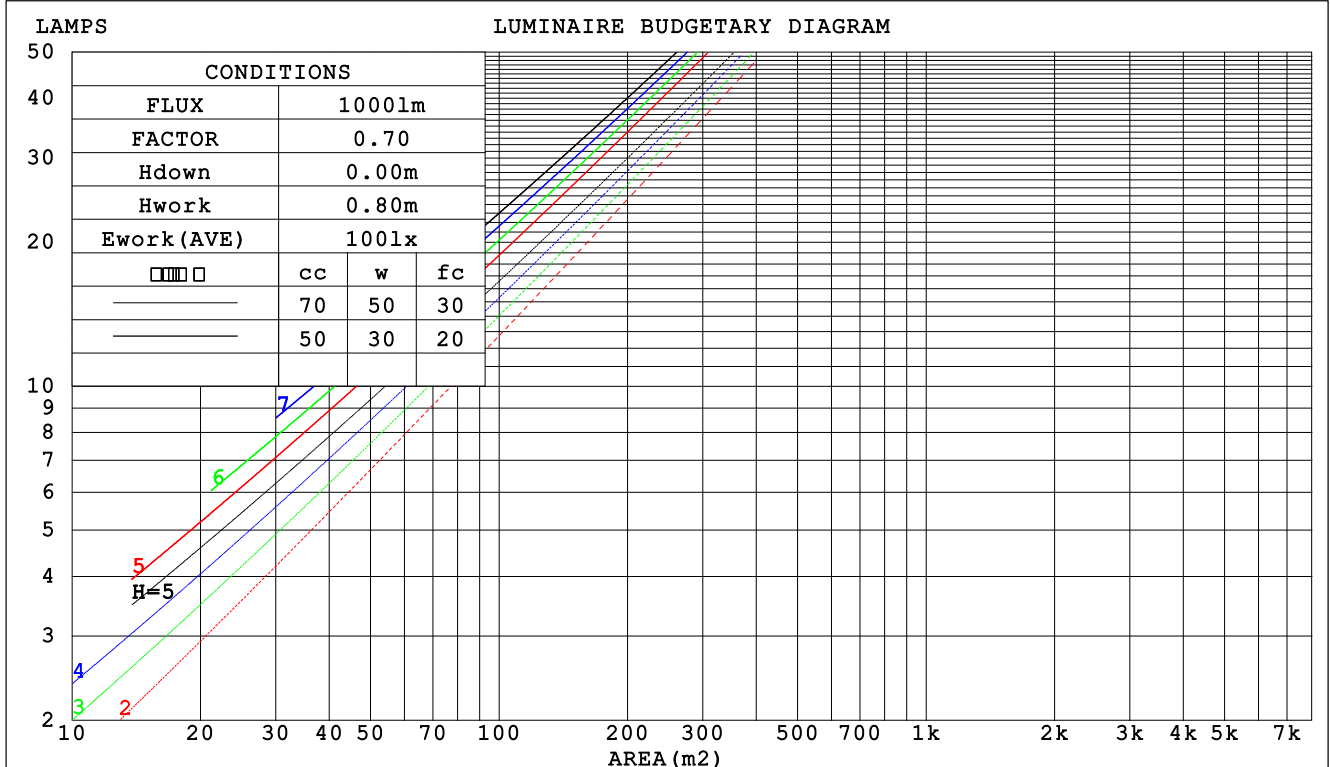
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.199	.113	.036	.192	.110	.035	.180	.103	.033	.168	.097	.031	.157	.091	.029		
2.0	.191	.105	.032	.185	.102	.031	.174	.097	.030	.164	.092	.029	.155	.088	.028		
3.0	.180	.096	.029	.175	.094	.028	.166	.090	.027	.157	.086	.026	.149	.083	.026		
4.0	.169	.088	.026	.165	.086	.026	.157	.083	.025	.150	.080	.024	.143	.078	.024		
5.0	.159	.081	.024	.156	.080	.023	.149	.077	.023	.142	.075	.022	.136	.073	.022		
6.0	.150	.075	.022	.147	.074	.021	.141	.072	.021	.135	.070	.021	.130	.068	.020		
7.0	.142	.070	.020	.139	.069	.020	.134	.068	.019	.128	.066	.019	.124	.064	.019		
8.0	.134	.066	.018	.132	.065	.018	.127	.063	.018	.122	.062	.018	.118	.061	.018		
9.0	.128	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017		
10.0	.121	.058	.016	.119	.058	.016	.115	.057	.016	.112	.055	.016	.108	.054	.016		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.147	.114	.087	.126	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.128	.088	.058	.110	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.121	.079	.048	.104	.068	.042	.072	.048	.030	.042	.028	.018	.013	.009	.006	
7.0	.114	.071	.041	.098	.062	.036	.068	.043	.025	.039	.025	.015	.013	.008	.005	
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm										
NAME: GHSL-32-U					TYPE:Flood Light			WEIGHT:N/A		
SPEC.:200W/5000K					DIM.: 190*150mm			SERIAL No.:N/A		
MFR.: Grin Industrial Co., Ltd.					SUR.:N/A			Shielding Angle:N/A		
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	15.7	16.7	16.0	16.9	17.1	15.9	16.9	16.1	17.1	17.2
3H	16.6	17.6	16.9	17.8	18.0	16.8	17.7	17.0	17.9	18.1
4H	16.9	17.8	17.1	18.0	18.2	17.0	17.9	17.3	18.1	18.4
6H	16.9	17.8	17.2	18.0	18.3	17.0	17.8	17.3	18.1	18.3
8H	16.9	17.7	17.2	18.0	18.2	16.9	17.8	17.3	18.0	18.3
12H	16.8	17.6	17.2	17.9	18.2	16.9	17.7	17.2	17.9	18.2
4H 2H	16.2	17.1	16.4	17.3	17.5	16.3	17.2	16.5	17.4	17.6
3H	17.2	18.0	17.5	18.2	18.5	17.3	18.1	17.6	18.4	18.7
4H	17.5	18.2	17.9	18.5	18.8	17.6	18.3	18.0	18.6	19.0
6H	17.6	18.2	18.0	18.6	18.9	17.6	18.2	18.0	18.6	18.9
8H	17.6	18.2	18.0	18.5	18.9	17.6	18.2	18.0	18.5	18.9
12H	17.5	18.1	18.0	18.5	18.8	17.5	18.1	17.9	18.4	18.8
8H 4H	17.6	18.2	18.0	18.5	18.9	17.7	18.3	18.1	18.6	19.0
6H	17.7	18.2	18.2	18.6	19.0	17.7	18.2	18.1	18.6	19.0
8H	17.7	18.1	18.2	18.6	19.0	17.6	18.1	18.1	18.5	18.9
12H	17.7	18.1	18.2	18.5	19.0	17.6	18.0	18.1	18.4	18.9
12H 4H	17.5	18.1	17.9	18.4	18.8	17.6	18.2	18.1	18.6	18.9
6H	17.7	18.1	18.1	18.5	19.0	17.7	18.1	18.1	18.5	18.9
8H	17.7	18.0	18.2	18.5	19.0	17.6	18.0	18.1	18.4	18.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.4 / - 0.6				
1.5H	+ 0.2 / - 0.5					+ 0.5 / - 0.4				
2.0H	+ 0.7 / - 0.8					+ 0.6 / - 0.7				

CIE Pub.117, 30736 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.9)  
Area: 0.024 m2

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

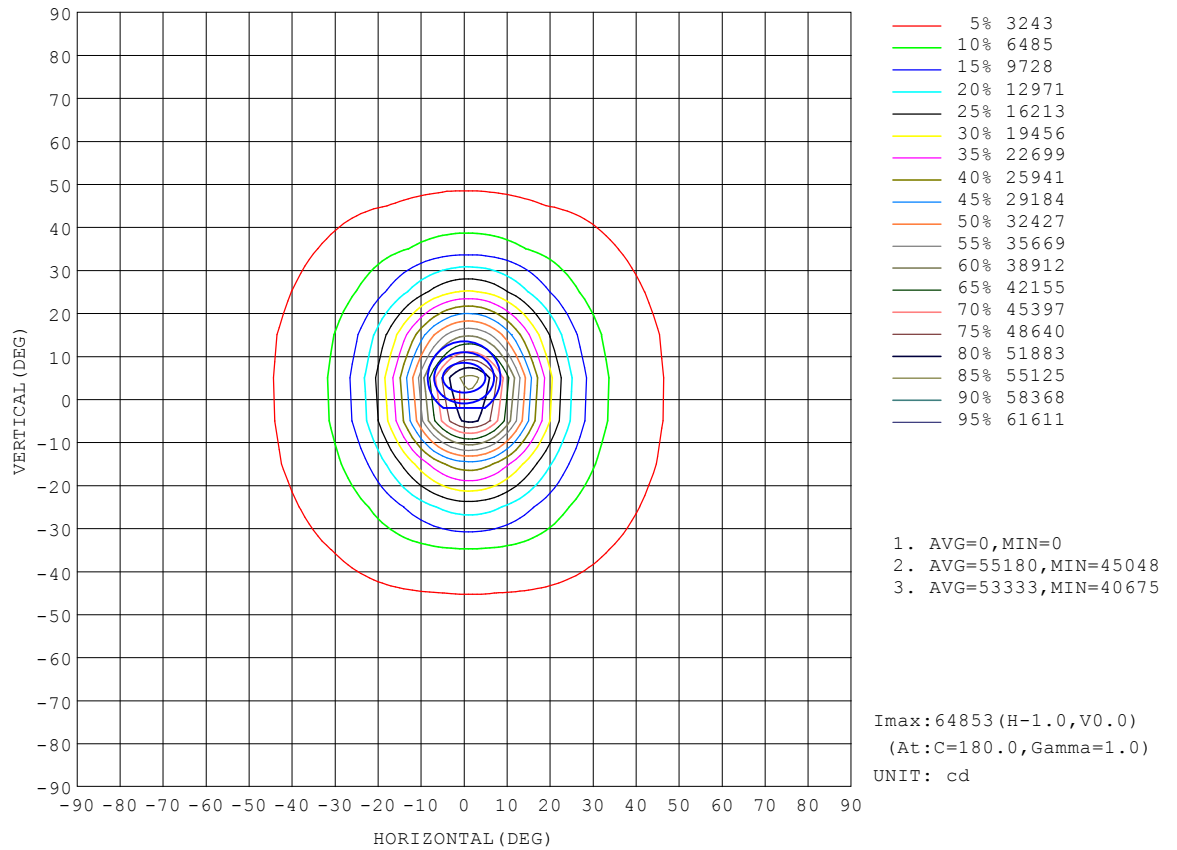
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	78	70	65	78	70	65	77	70	65	61
0.80	87	79	74	86	79	74	84	78	74	69
1.00	92	85	80	91	85	80	90	85	80	75
1.25	97	91	86	96	90	86	94	89	85	80
1.50	101	95	90	99	94	90	97	92	89	83
2.00	105	99	95	103	98	95	100	96	93	87
2.50	107	102	98	105	101	98	102	99	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	112	108	105	110	107	104	106	103	101	94
5.00	113	110	108	111	109	106	107	105	103	95
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



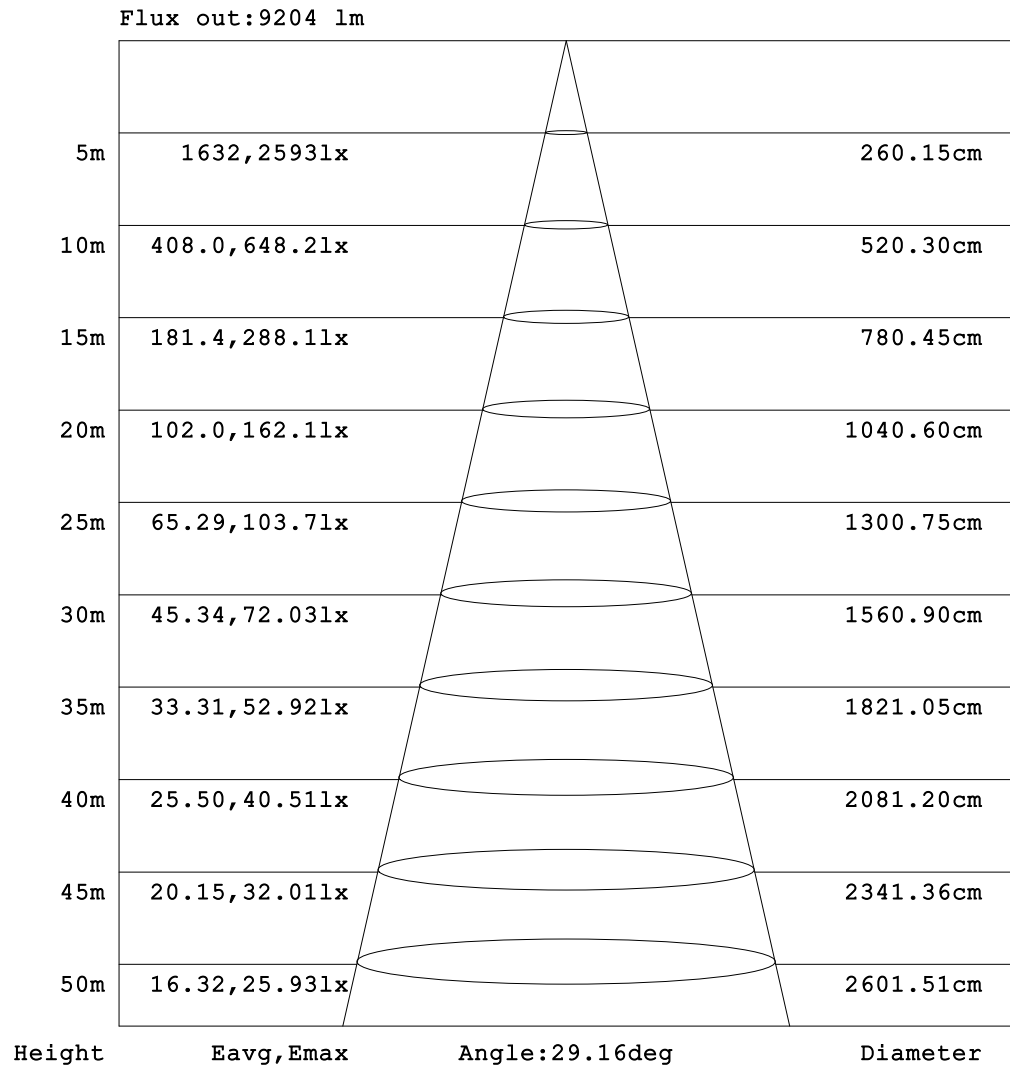
H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



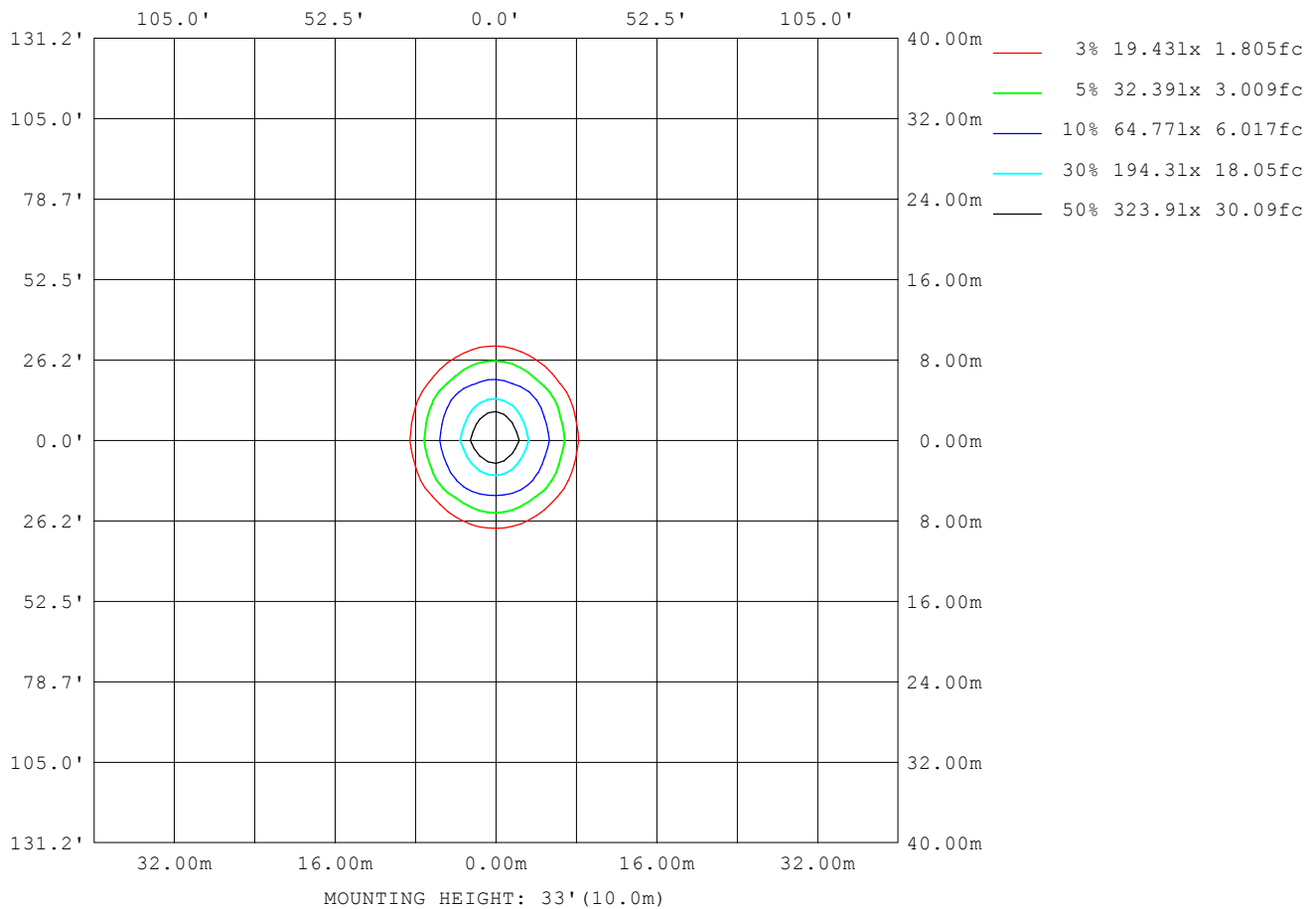
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:120.72V I:1.6479A P:198.54W PF:0.9980 Freq:59.98Hz Lamp Flux:30736x1 lm		
NAME: GHSL-32-U	TYPE:Flood Light	WEIGHT:N/A
SPEC.:200W/5000K	DIM.: 190*150mm	SERIAL No.:N/A
MFR.: Grin Industrial Co., Ltd.	SUR.:N/A	Shielding Angle:N/A

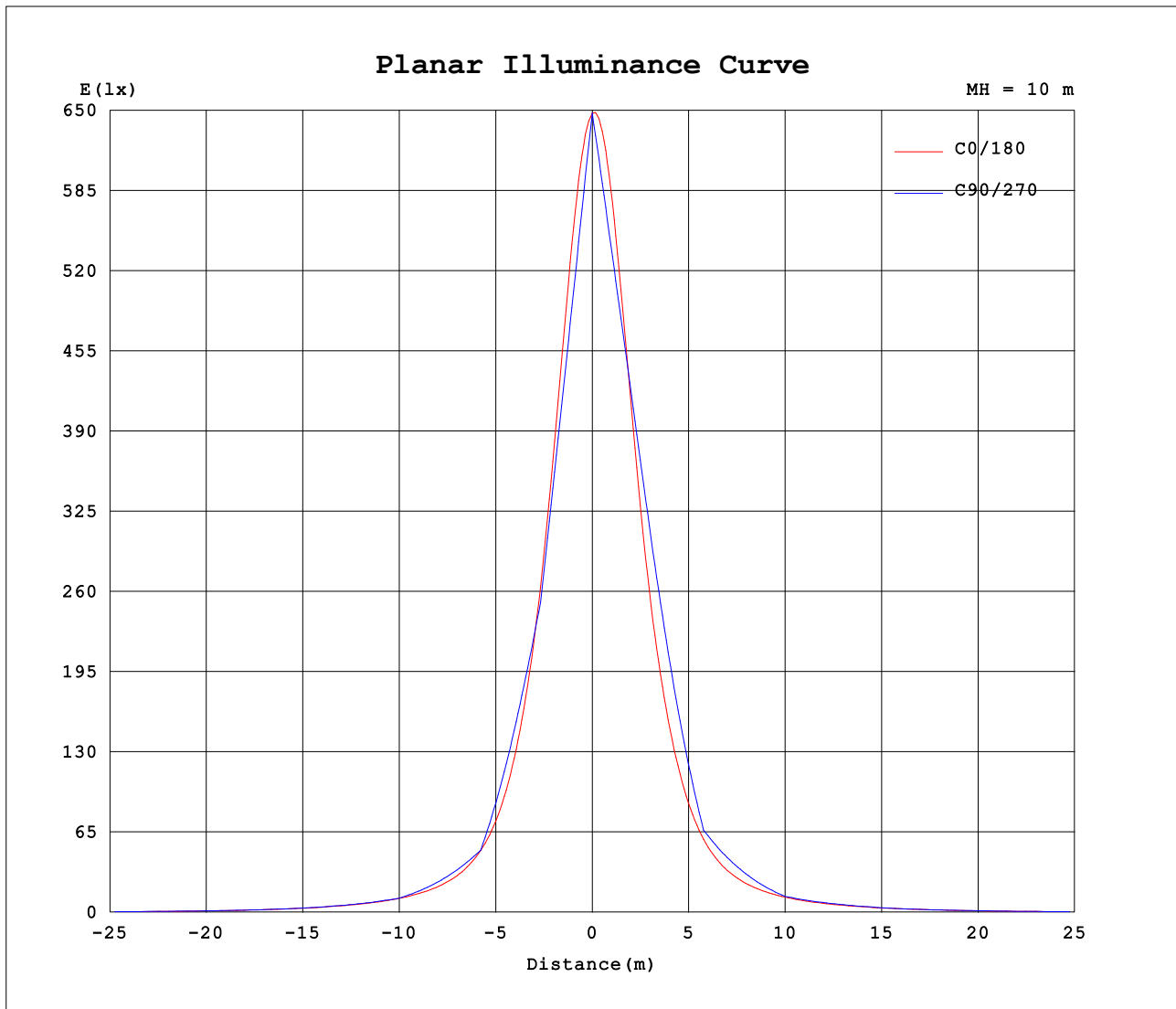
AvgL	cd/m2
L_0~180 (65) av	123557
L_0~180 (75) av	74345
L_0~180 (85) av	8365
L_90~270 (65) av	130100
L_90~270 (75) av	77511
L_90~270 (85) av	0
L_45 (65) av	124783
L_45 (75) av	78441
L_45 (85) av	0

Standard: GB/T 29293-2012

H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



H(□) Range:-90 - 90DEG  
H(□) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Gu  
Test Date:2025-02-26

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.411  
Humidity:65.0%  
Test Distance:7.468m [K=1.0000]  
Remarks:

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