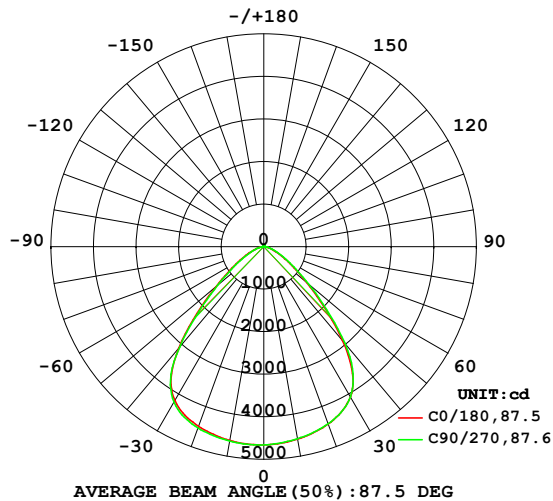


## LUMINAIRE PHOTOMETRIC TEST REPORT

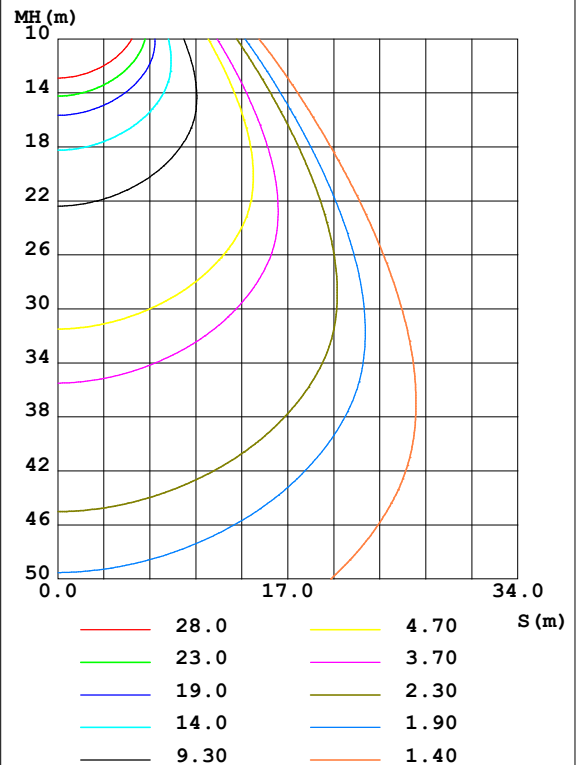
Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.95 lm/W			
MODEL		Imax(cd)	4667	S/MH(C0/180)	1.26
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9204.8	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	9204.79	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,50.0
LAMPS INSIDE	1	□ up(%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	99.0	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4593	4581	4583	4599	4625	4642	4641	4614	0- 10	442.4	442.4	4.81,4.81
20	4437	4425	4432	4455	4492	4538	4535	4463	10- 20	1287	1730	18.8,18.8
30	4078	4068	4076	4133	4180	4233	4223	4123	20- 30	2001	3731	40.5,40.5
40	2888	2898	2972	3091	3109	3138	3075	2907	30- 40	2296	6027	65.5,65.5
50	1327	1340	1389	1452	1463	1436	1414	1333	40- 50	1645	7672	83.3,83.3
60	572.4	598.8	612.8	647.6	646.5	630.8	606.9	573.2	50- 60	847.3	8519	92.5,92.5
70	233.2	248.3	259.5	274.8	268.3	260.4	246.7	233.0	60- 70	404.7	8924	96.9,96.9
80	62.77	73.54	80.90	86.41	77.32	69.53	62.40	57.54	70- 80	160.2	9084	98.7,98.7
90	4.316	4.951	5.026	4.498	2.953	3.475	2.905	3.922	80- 90	28.29	9112	99,99
100	4.840	4.750	4.691	4.458	4.217	4.247	4.371	4.508	90-100	4.144	9116	99,99
110	8.523	8.352	8.367	7.887	7.593	7.526	7.792	7.933	100-110	6.481	9123	99.1,99.1
120	13.21	12.93	13.10	12.37	12.22	11.93	12.34	12.44	110-120	10.11	9133	99.2,99.2
130	18.34	17.91	18.23	17.32	17.71	17.03	17.68	17.59	120-130	13.53	9146	99.4,99.4
140	23.24	22.70	23.00	22.19	22.93	22.32	22.92	22.83	130-140	15.65	9162	99.5,99.5
150	27.28	27.33	27.21	26.90	27.44	27.37	27.55	27.87	140-150	15.73	9178	99.7,99.7
160	32.10	31.90	32.04	31.53	32.37	32.18	32.51	32.62	150-160	13.67	9191	99.9,99.9
170	36.88	36.54	36.83	36.26	37.11	36.78	37.17	37.11	160-170	9.744	9201	100,100
180	39.34	38.99	39.35	38.97	39.34	38.99	39.36	38.95	170-180	3.617	9205	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6972.5 lm

%lum = 75.7%

%lamp = 75.7%

Conical surface Flux(120deg): 8518.9 lm

%lum = 92.5%

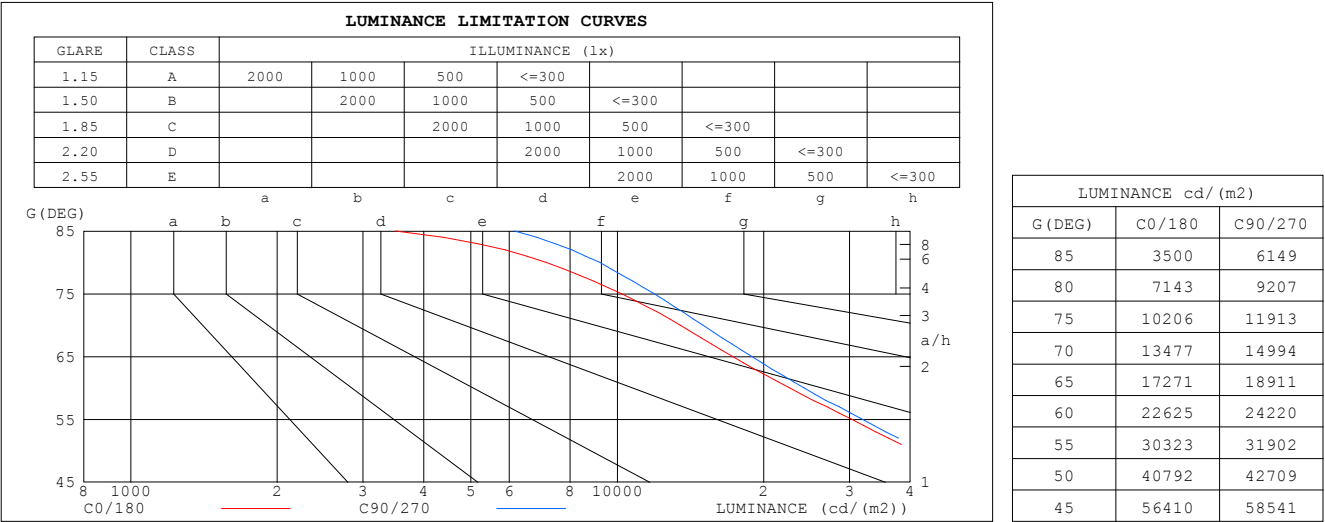
%lamp = 92.5%

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm					
NAME: H17S-60W-3000K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB Lighting Inc			SUR.:0.225*0.225		Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.234	.133	.042	.227	.129	.041	.213	.122	.039	.201	.116	.037	.189	.110	.035	
2.0	.227	.124	.038	.221	.122	.037	.209	.116	.036	.198	.111	.035	.188	.107	.034	
3.0	.216	.115	.034	.211	.113	.034	.200	.109	.033	.191	.105	.032	.182	.101	.031	
4.0	.204	.106	.031	.200	.104	.031	.191	.101	.030	.182	.098	.030	.174	.095	.029	
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.173	.091	.027	.166	.089	.027	
6.0	.182	.091	.026	.179	.090	.026	.171	.088	.026	.165	.086	.025	.159	.083	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	.151	.078	.023	
8.0	.163	.080	.022	.160	.079	.022	.155	.077	.022	.149	.076	.022	.144	.074	.022	
9.0	.155	.075	.021	.152	.074	.021	.147	.073	.021	.142	.071	.020	.137	.070	.020	
10.0	.147	.071	.020	.145	.070	.019	.140	.069	.019	.135	.067	.019	.131	.066	.019	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.183	.165	.148	.156	.141	.127	.107	.097	.088	.062	.056	.051	.020	.018	.017	
2.0	.171	.140	.114	.147	.121	.098	.101	.083	.069	.058	.049	.040	.019	.016	.013	
3.0	.162	.122	.090	.139	.105	.078	.095	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.154	.108	.073	.132	.093	.063	.091	.065	.045	.052	.038	.026	.017	.012	.009	
5.0	.146	.097	.061	.126	.084	.053	.087	.059	.037	.050	.034	.022	.016	.011	.007	
6.0	.140	.088	.052	.120	.076	.045	.083	.054	.032	.048	.031	.019	.015	.010	.006	
7.0	.133	.081	.045	.115	.070	.039	.079	.049	.028	.046	.029	.016	.015	.010	.005	
8.0	.128	.075	.040	.110	.065	.034	.076	.046	.024	.044	.027	.015	.014	.009	.005	
9.0	.122	.070	.035	.105	.061	.031	.073	.043	.022	.043	.025	.013	.014	.008	.004	
10.0	.117	.066	.032	.101	.058	.028	.070	.040	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm										
NAME: H17S-60W-3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB Lighting Inc					SUR.:0.225*0.225			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	24.0	25.2	24.2	25.4	25.6	24.1	25.4	24.4	25.6	25.8
3H	24.2	25.3	24.5	25.6	25.8	24.4	25.5	24.7	25.8	26.0
4H	24.2	25.3	24.5	25.6	25.8	24.5	25.5	24.8	25.8	26.1
6H	24.2	25.2	24.5	25.5	25.8	24.5	25.5	24.8	25.8	26.0
8H	24.2	25.2	24.5	25.4	25.7	24.4	25.4	24.8	25.7	26.0
12H	24.1	25.1	24.5	25.4	25.7	24.4	25.4	24.8	25.7	26.0
4H 2H	24.0	25.1	24.3	25.4	25.6	24.2	25.2	24.5	25.5	25.8
3H	24.4	25.3	24.7	25.6	25.9	24.5	25.5	24.9	25.8	26.1
4H	24.5	25.3	24.8	25.6	26.0	24.7	25.5	25.0	25.8	26.2
6H	24.5	25.2	24.9	25.6	26.0	24.7	25.5	25.1	25.8	26.2
8H	24.5	25.2	24.9	25.5	25.9	24.7	25.4	25.2	25.8	26.2
12H	24.4	25.1	24.9	25.5	25.9	24.7	25.4	25.2	25.8	26.2
8H 4H	24.4	25.1	24.9	25.5	25.9	24.6	25.3	25.1	25.7	26.1
6H	24.5	25.1	25.0	25.5	25.9	24.8	25.3	25.2	25.7	26.2
8H	24.5	25.0	25.0	25.4	25.9	24.8	25.3	25.3	25.7	26.2
12H	24.5	24.9	25.0	25.4	25.9	24.8	25.2	25.3	25.7	26.2
12H 4H	24.4	25.0	24.8	25.4	25.8	24.6	25.2	25.0	25.6	26.0
6H	24.5	25.0	25.0	25.4	25.9	24.7	25.2	25.2	25.7	26.1
8H	24.5	24.9	25.0	25.4	25.9	24.8	25.2	25.3	25.7	26.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.1 / - 1.6				
1.5H	+ 1.3 / - 1.2					+ 1.2 / - 1.2				
2.0H	+ 2.4 / - 1.9					+ 2.4 / - 1.9				

CIE Pub.117, 9205 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 7.7$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

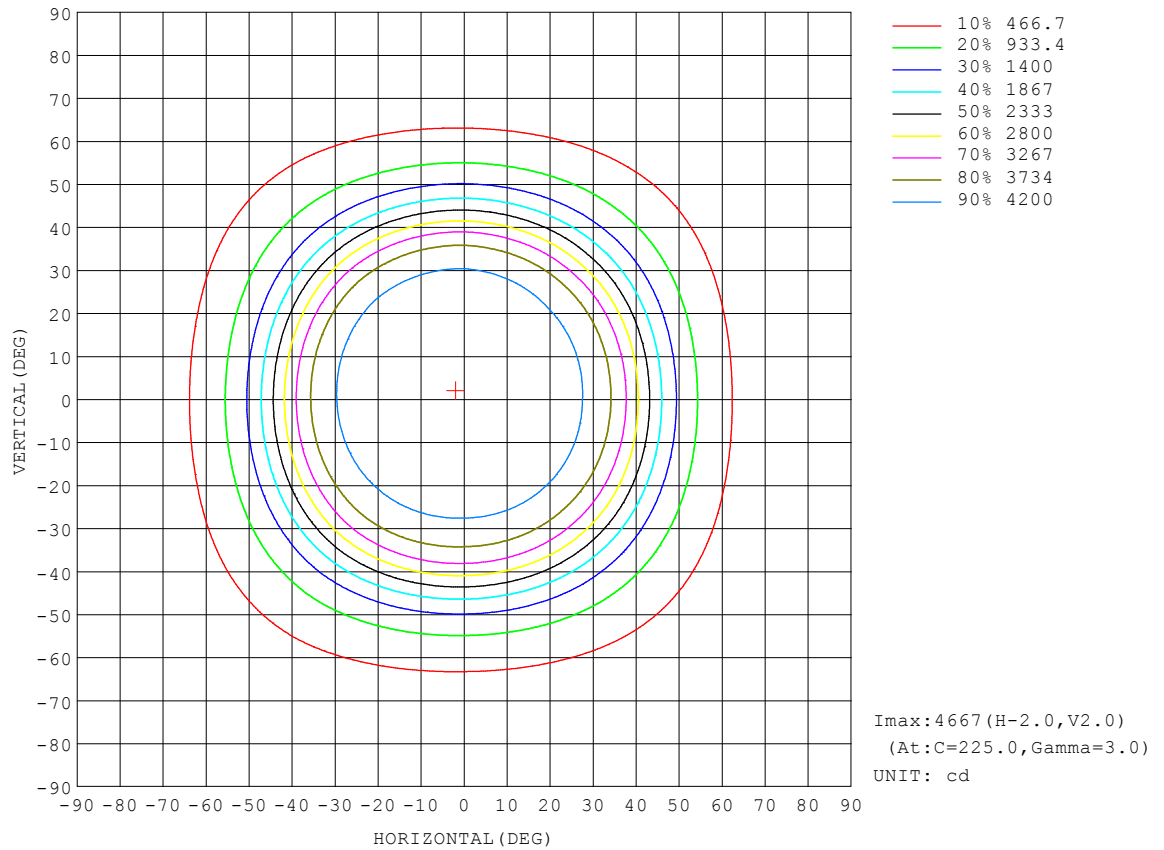
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	55	68	60	54	49
0.80	79	70	65	78	70	64	77	69	64	58
1.00	87	78	73	86	78	73	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	100	92
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 27DEG  
 Operators: lianghaizhu  
 Test Date: 2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 56%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

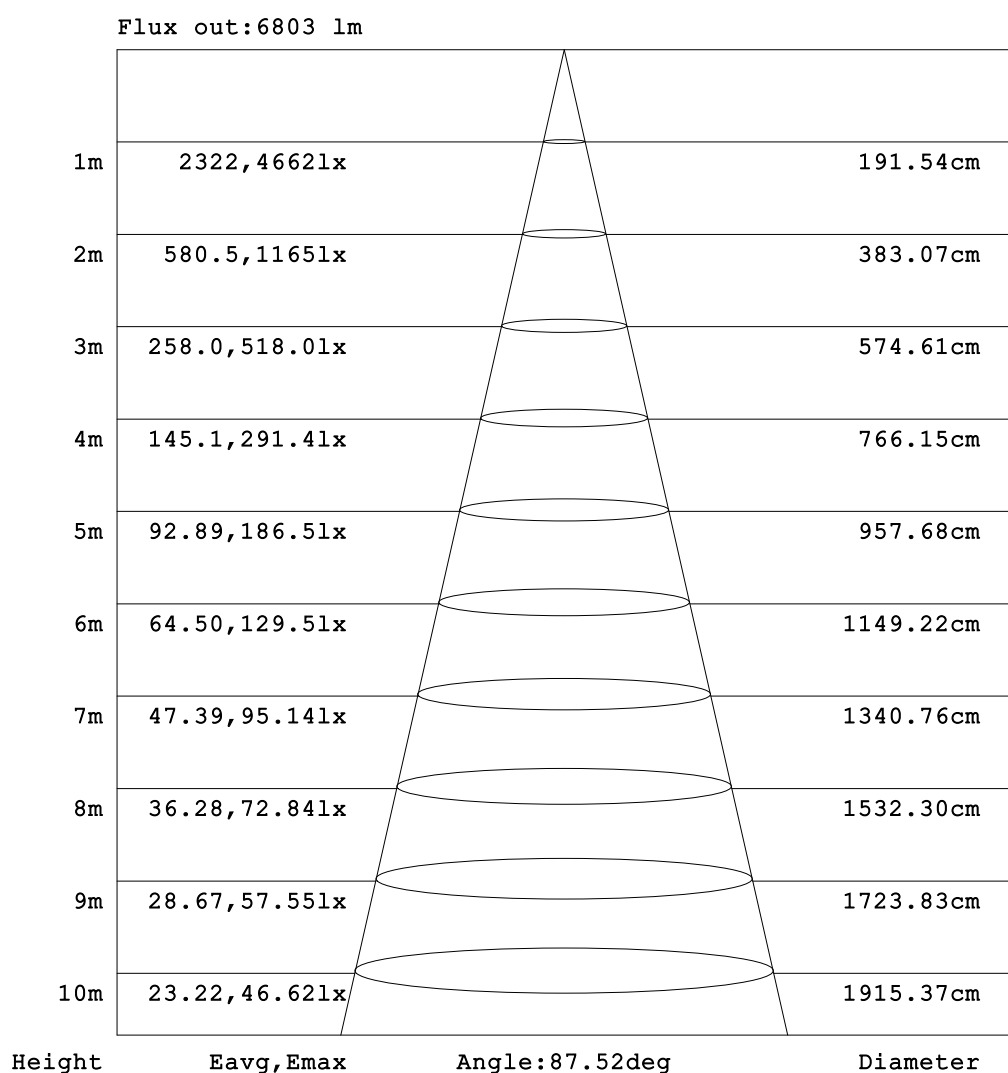


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

## AAI Figure

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



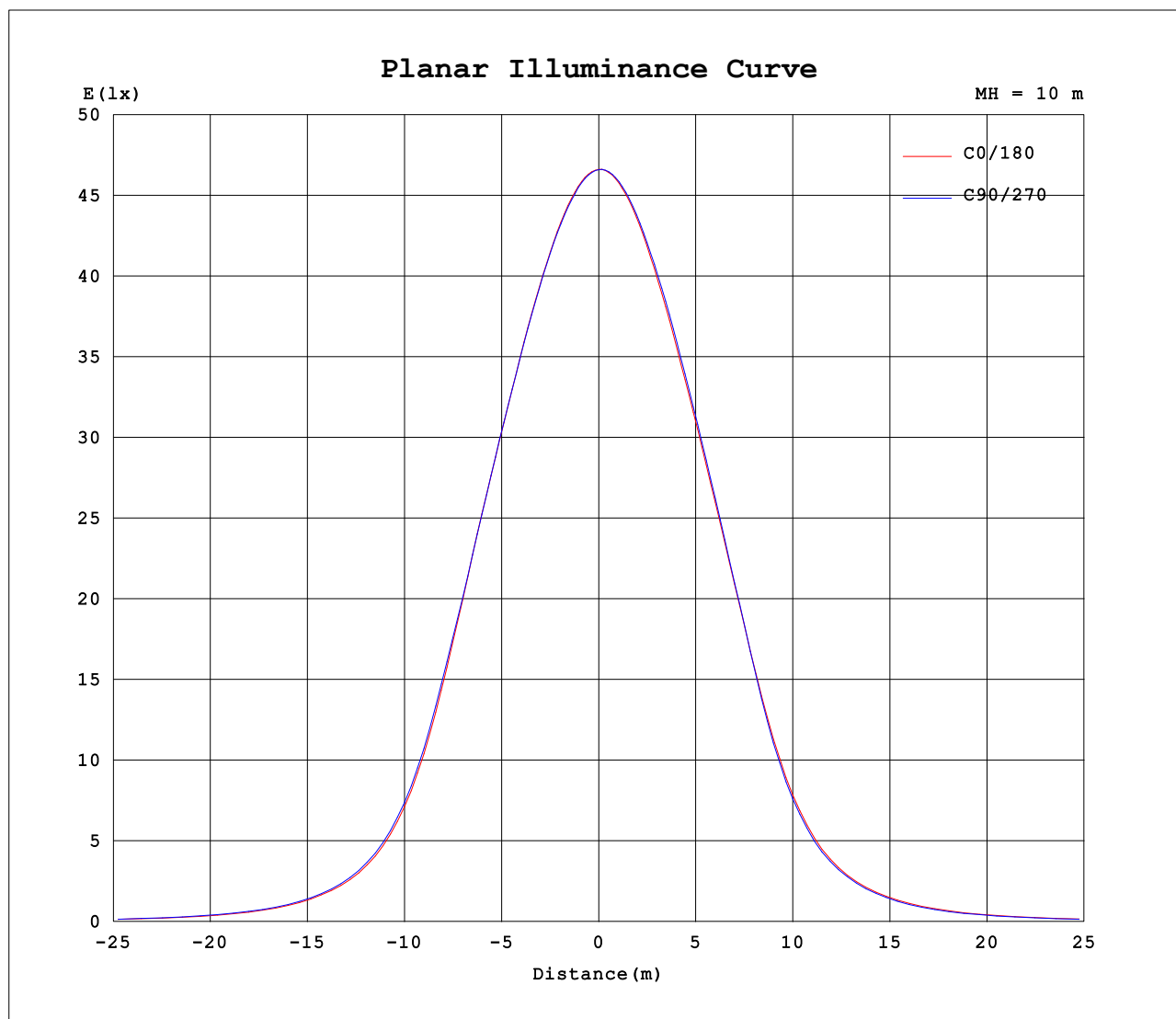
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 27DEG  
 Operators: lianghaizhu  
 Test Date: 2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 56%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:



## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 27DEG  
Operators: lianghaizhu  
Test Date: 2023-12-28

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity: 56%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.4979A P:59.79W PF:0.9947 Freq:59.98Hz Lamp Flux:9204.79x1 lm		
NAME: H17S-60W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	4662	4661	4659	4659	4662	4661	4659	4659										
5	4640	4631	4632	4641	4656	4666	4663	4649										
10	4593	4581	4583	4599	4625	4642	4641	4614										
15	4527	4516	4520	4540	4568	4600	4595	4553										
20	4437	4425	4432	4455	4492	4538	4535	4463										
25	4298	4290	4299	4333	4379	4424	4423	4337										
30	4078	4068	4076	4133	4180	4233	4223	4123										
35	3636	3618	3659	3756	3808	3862	3826	3696										
40	2888	2898	2972	3091	3109	3138	3075	2907										
45	2018	2032	2095	2208	2224	2195	2156	2015										
50	1327	1340	1389	1452	1463	1436	1414	1333										
55	880	902	926	971	975	954	931	879										
60	572	599	613	648	646	631	607	573										
65	369	391	404	428	423	411	394	372										
70	233	248	259	275	268	260	247	233										
75	134	146	156	166	158	148	138	130										
80	62.8	73.5	80.9	86.4	77.3	69.5	62.4	57.5										
85	15.4	22.4	27.1	29.6	22.6	17.0	12.5	10.8										
90	4.32	4.95	5.03	4.50	2.95	3.48	2.91	3.92										
95	3.69	3.90	3.73	3.88	3.10	3.45	3.20	3.43										
100	4.84	4.75	4.69	4.46	4.22	4.25	4.37	4.51										
105	6.51	6.39	6.35	5.99	5.72	5.72	5.90	6.06										
110	8.52	8.35	8.37	7.89	7.59	7.53	7.79	7.93										
115	10.8	10.6	10.6	10.0	9.77	9.61	9.93	10.1										
120	13.2	12.9	13.1	12.4	12.2	11.9	12.3	12.4										
125	15.8	15.4	15.7	14.9	14.9	14.5	14.9	15.0										
130	18.3	17.9	18.2	17.3	17.7	17.0	17.7	17.6										
135	20.9	20.3	20.7	19.8	20.4	19.7	20.4	20.2										
140	23.2	22.7	23.0	22.2	22.9	22.3	22.9	22.8										
145	25.3	25.2	25.1	24.7	25.3	25.1	25.3	25.6										
150	27.3	27.3	27.2	26.9	27.4	27.4	27.5	27.9										
155	29.6	29.5	29.5	29.1	29.8	29.7	29.9	30.2										
160	32.1	31.9	32.0	31.5	32.4	32.2	32.5	32.6										
165	34.7	34.4	34.6	34.0	35.0	34.7	35.1	35.1										
170	36.9	36.5	36.8	36.3	37.1	36.8	37.2	37.1										
175	38.5	38.2	38.5	38.1	38.7	38.3	38.7	38.4										
180	39.3	39.0	39.4	39.0	39.3	39.0	39.4	39.0										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-12-28

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks: