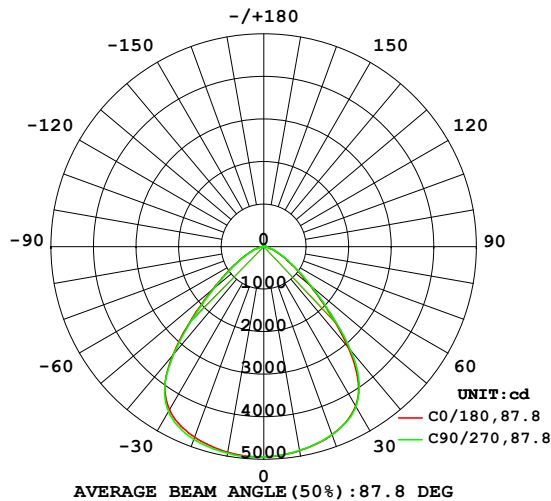


## LUMINAIRE PHOTOMETRIC TEST REPORT

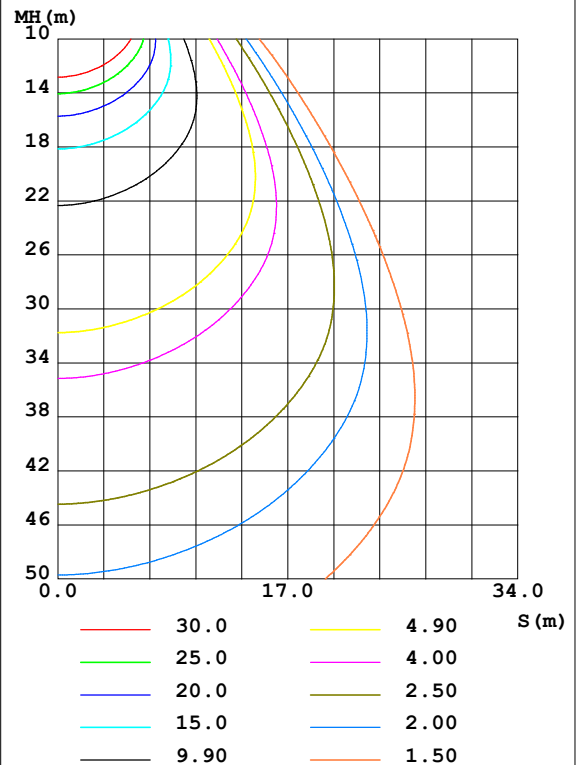
Test:U:120.7V I:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 169.90 lm/W			
MODEL		I <sub>max</sub> (cd)	4953	S/MH(C0/180)	1.27
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9816.2	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	9816.19	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	4868	4856	4861	4883	4906	4932	4932	4902	0- 10	469.5	469.5	4.78,4.78
20	4702	4689	4700	4730	4763	4820	4819	4748	10- 20	1367	1836	18.7,18.7
30	4323	4323	4341	4399	4434	4492	4478	4375	20- 30	2125	3961	40.3,40.3
40	3080	3098	3181	3316	3332	3355	3288	3110	30- 40	2445	6406	65.3,65.3
50	1427	1435	1492	1560	1570	1546	1518	1431	40- 50	1763	8169	83.2,83.2
60	619.0	645.0	660.8	694.4	694.2	673.1	652.7	617.3	50- 60	910.5	9080	92.5,92.5
70	253.1	268.6	276.8	293.7	289.9	277.4	264.5	251.1	60- 70	435.1	9515	96.9,96.9
80	68.45	79.40	85.78	91.97	83.65	74.87	66.84	62.07	70- 80	172.3	9687	98.7,98.7
90	4.583	5.248	5.351	4.815	3.180	3.699	3.117	4.208	80- 90	30.38	9718	99,99
100	5.165	5.073	5.021	4.769	4.510	4.551	4.679	4.830	90-100	4.431	9722	99,99
110	9.097	8.907	8.932	8.431	8.099	8.052	8.325	8.488	100-110	6.927	9729	99.1,99.1
120	14.06	13.78	13.95	13.19	13.01	12.72	13.17	13.28	110-120	10.78	9740	99.2,99.2
130	19.54	19.06	19.46	18.45	18.82	18.11	18.83	18.74	120-130	14.41	9754	99.4,99.4
140	24.70	24.12	24.47	23.61	24.38	23.69	24.40	24.27	130-140	16.65	9771	99.5,99.5
150	28.99	29.03	28.93	28.59	29.10	29.08	29.26	29.64	140-150	16.71	9787	99.7,99.7
160	34.08	33.88	34.04	33.50	34.35	34.16	34.53	34.68	150-160	14.53	9802	99.9,99.9
170	39.15	38.77	39.14	38.52	39.37	39.04	39.46	39.44	160-170	10.35	9812	100,100
180	41.75	41.39	41.80	41.39	41.73	41.41	41.79	41.39	170-180	3.841	9816	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7418.9 lm

%lum = 75.6%

%lamp = 75.6%

Conical surface Flux(120deg): 9079.8 lm

%lum = 92.5%

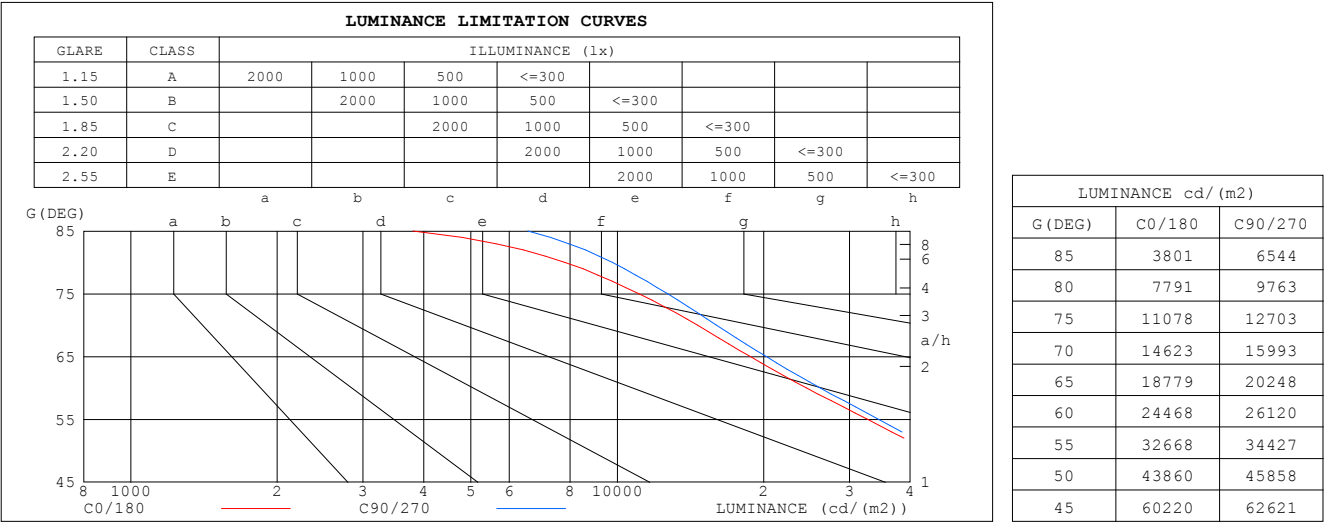
%lamp = 92.5%

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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	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	.214 .122 .039	.201 .116 .037	.190 .110 .035	
2.0	.227 .125 .038	.221 .122 .038	.209 .116 .036	.199 .111 .035	.189 .107 .034	
3.0	.216 .115 .034	.211 .113 .034	.201 .109 .033	.191 .105 .032	.183 .101 .031	
4.0	.205 .106 .031	.200 .105 .031	.191 .101 .030	.183 .098 .030	.175 .095 .029	
5.0	.193 .099 .029	.189 .097 .028	.181 .094 .028	.174 .092 .027	.167 .089 .027	
6.0	.183 .092 .026	.179 .090 .026	.172 .088 .026	.165 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.169 .084 .024	.163 .082 .024	.157 .080 .023	.151 .079 .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	.138 .070 .020	
10.0	.147 .071 .020	.145 .070 .020	.140 .069 .019	.136 .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 .068	.058 .048 .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	.016 .010 .006	
7.0	.133 .081 .045	.115 .070 .039	.079 .049 .028	.046 .029 .016	.015 .010 .005	
8.0	.128 .075 .039	.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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm										
NAME: H17S-60W-4000K					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	24.2	25.5	24.5	25.7	25.9	24.4	25.6	24.6	25.8	26.1
3H	24.5	25.6	24.7	25.8	26.1	24.6	25.8	24.9	26.0	26.3
4H	24.5	25.6	24.8	25.8	26.1	24.7	25.8	25.0	26.1	26.3
6H	24.5	25.5	24.8	25.8	26.1	24.7	25.7	25.1	26.0	26.3
8H	24.5	25.4	24.8	25.7	26.0	24.7	25.7	25.0	26.0	26.3
12H	24.4	25.4	24.8	25.7	26.0	24.7	25.6	25.0	25.9	26.2
4H 2H	24.3	25.4	24.6	25.6	25.9	24.4	25.5	24.7	25.8	26.0
3H	24.6	25.6	25.0	25.9	26.2	24.8	25.7	25.2	26.0	26.4
4H	24.7	25.6	25.1	25.9	26.2	24.9	25.8	25.3	26.1	26.5
6H	24.8	25.5	25.2	25.9	26.2	25.0	25.7	25.4	26.1	26.5
8H	24.8	25.4	25.2	25.8	26.2	25.0	25.7	25.4	26.1	26.5
12H	24.7	25.4	25.2	25.7	26.2	25.0	25.6	25.4	26.0	26.4
8H 4H	24.7	25.4	25.1	25.8	26.2	24.9	25.6	25.3	26.0	26.4
6H	24.8	25.4	25.2	25.8	26.2	25.0	25.6	25.5	26.0	26.4
8H	24.8	25.3	25.3	25.7	26.2	25.1	25.5	25.5	26.0	26.5
12H	24.8	25.2	25.3	25.7	26.2	25.1	25.5	25.5	25.9	26.4
12H 4H	24.7	25.3	25.1	25.7	26.1	24.9	25.5	25.3	25.9	26.3
6H	24.8	25.3	25.2	25.7	26.2	25.0	25.5	25.5	25.9	26.4
8H	24.8	25.2	25.3	25.7	26.2	25.0	25.5	25.5	25.9	26.4
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 / - 1.1				
2.0H	+ 2.4 / - 1.9					+ 2.3 / - 1.9				

CIE Pub.117, 9816 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 7.9$ )

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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

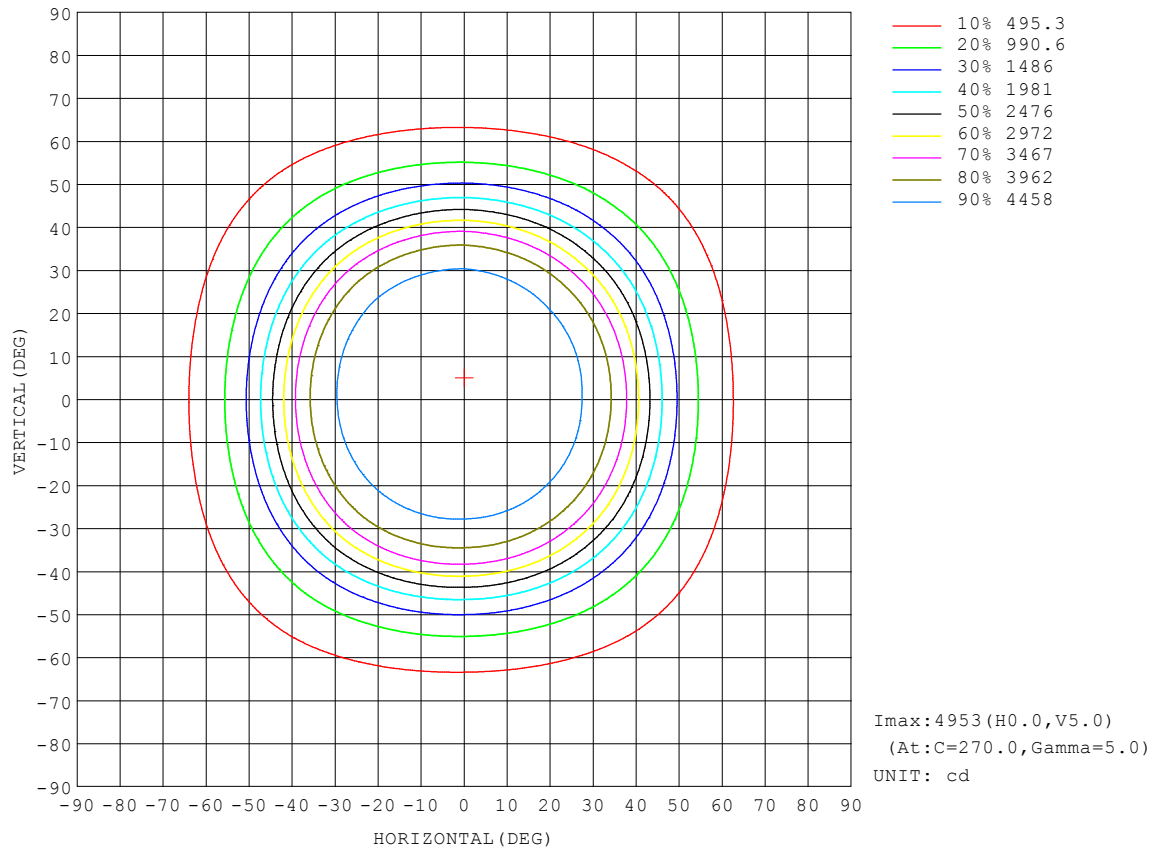
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	72	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	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	102	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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

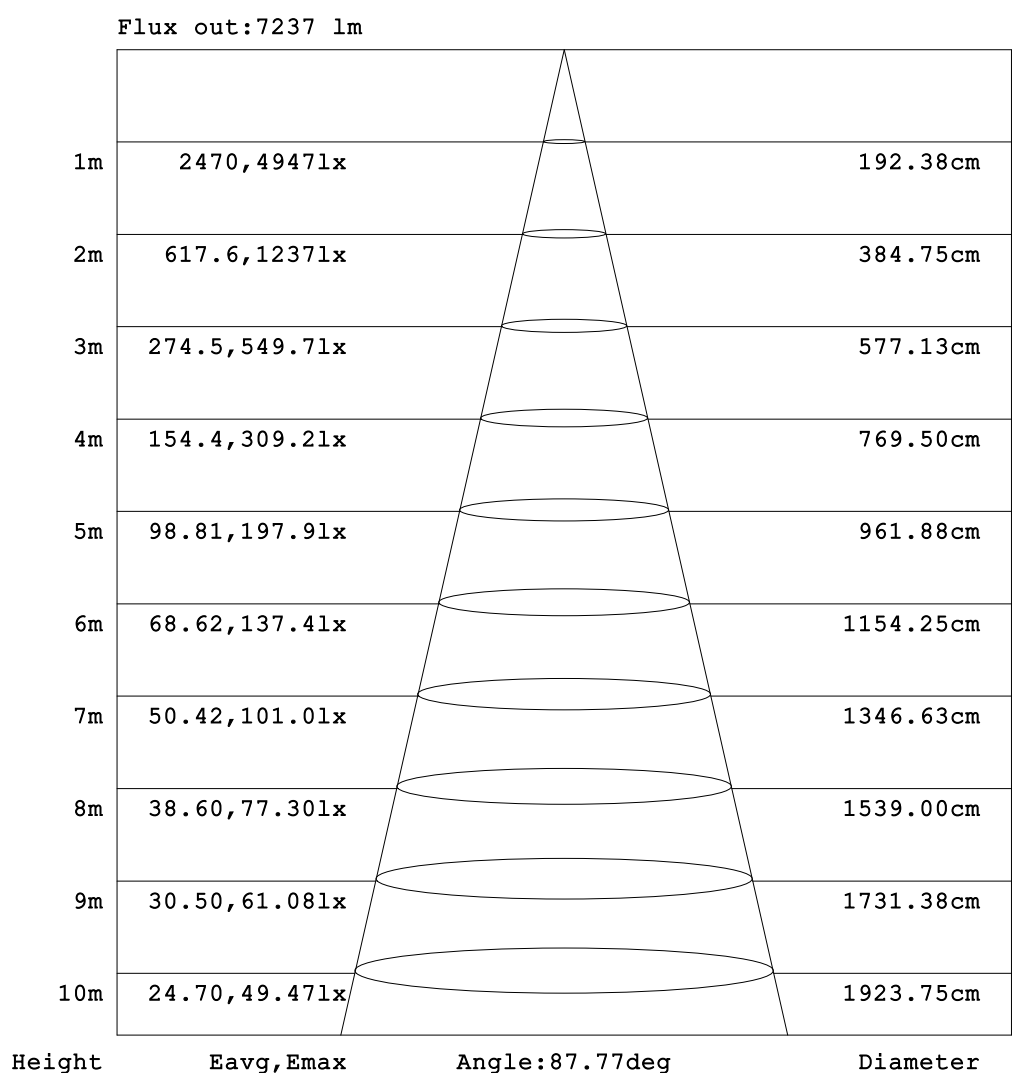


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

☐ 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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



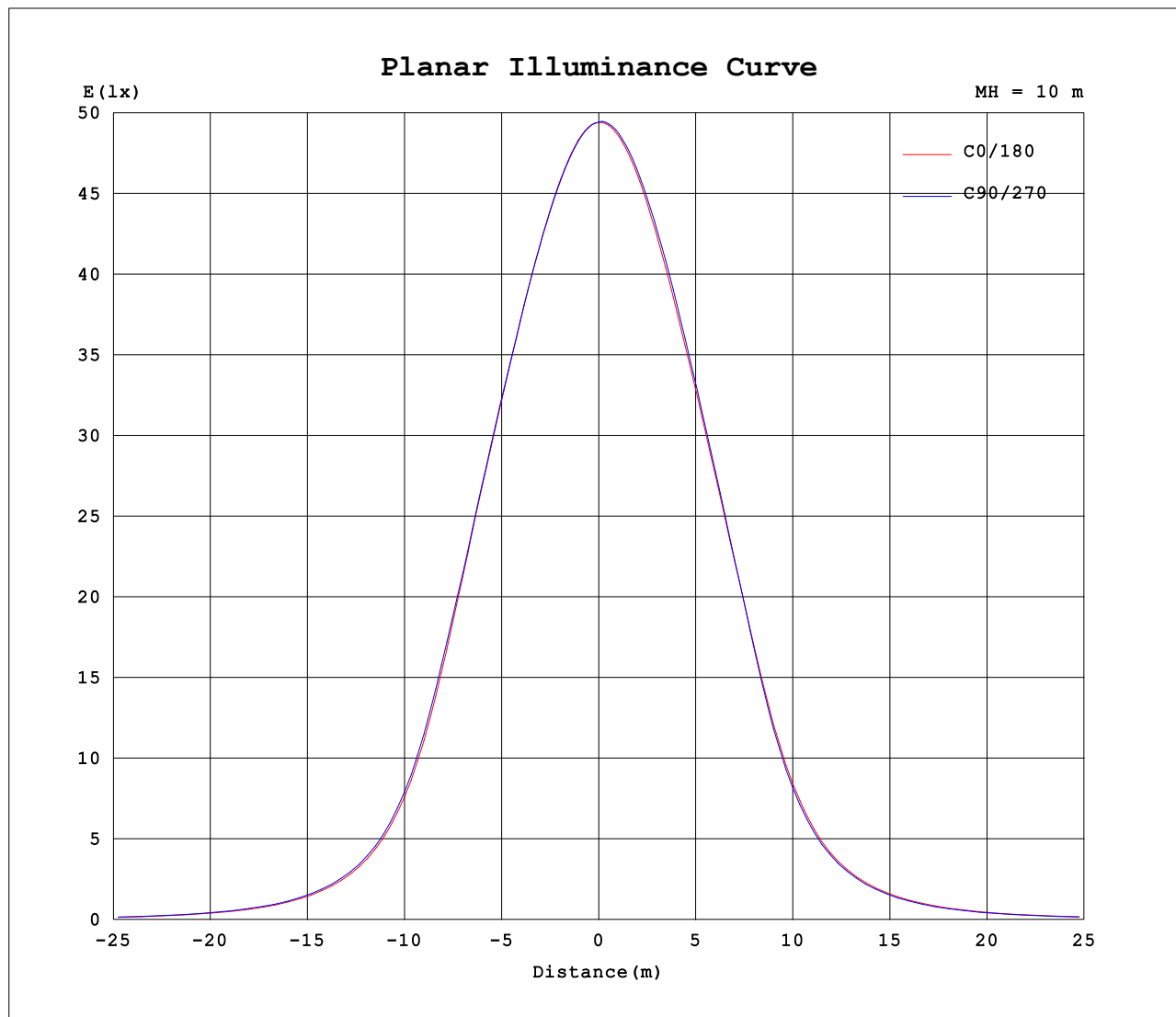
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4814A P:57.78W PF:0.9942 Freq:59.98Hz Lamp Flux:9816.19x1 lm		
NAME: H17S-60W-4000K	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	4941	4944	4942	4947	4941	4944	4942	4947										
5	4918	4911	4914	4927	4937	4951	4953	4938										
10	4868	4856	4861	4883	4906	4932	4932	4902										
15	4799	4785	4793	4819	4847	4889	4886	4841										
20	4702	4689	4700	4730	4763	4820	4819	4748										
25	4555	4549	4566	4603	4641	4701	4695	4609										
30	4323	4323	4341	4399	4434	4492	4478	4375										
35	3868	3861	3909	4012	4051	4101	4063	3924										
40	3080	3098	3181	3316	3332	3355	3288	3110										
45	2155	2177	2241	2373	2386	2358	2312	2163										
50	1427	1435	1492	1560	1570	1546	1518	1431										
55	948	967	999	1041	1044	1024	999	946										
60	619	645	661	694	694	673	653	617										
65	402	422	433	458	455	439	423	401										
70	253	269	277	294	290	277	264	251										
75	145	159	166	177	171	158	148	140										
80	68.5	79.4	85.8	92.0	83.6	74.9	66.8	62.1										
85	16.8	24.1	28.9	31.7	24.4	17.9	13.5	11.5										
90	4.58	5.25	5.35	4.81	3.18	3.70	3.12	4.21										
95	3.94	4.17	3.98	4.16	3.33	3.70	3.42	3.68										
100	5.16	5.07	5.02	4.77	4.51	4.55	4.68	4.83										
105	6.96	6.81	6.78	6.41	6.11	6.13	6.32	6.49										
110	9.10	8.91	8.93	8.43	8.10	8.05	8.32	8.49										
115	11.5	11.2	11.3	10.7	10.4	10.3	10.6	10.8										
120	14.1	13.8	14.0	13.2	13.0	12.7	13.2	13.3										
125	16.8	16.4	16.7	15.8	15.9	15.4	15.9	16.0										
130	19.5	19.1	19.5	18.5	18.8	18.1	18.8	18.7										
135	22.2	21.6	22.1	21.1	21.7	20.9	21.7	21.5										
140	24.7	24.1	24.5	23.6	24.4	23.7	24.4	24.3										
145	26.8	26.8	26.7	26.3	26.8	26.6	26.9	27.2										
150	29.0	29.0	28.9	28.6	29.1	29.1	29.3	29.6										
155	31.4	31.3	31.4	31.0	31.6	31.5	31.8	32.1										
160	34.1	33.9	34.0	33.5	34.4	34.2	34.5	34.7										
165	36.9	36.5	36.8	36.2	37.1	36.8	37.3	37.3										
170	39.2	38.8	39.1	38.5	39.4	39.0	39.5	39.4										
175	40.9	40.6	40.9	40.4	41.0	40.7	41.1	40.9										
180	41.7	41.4	41.8	41.4	41.7	41.4	41.8	41.4										

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: