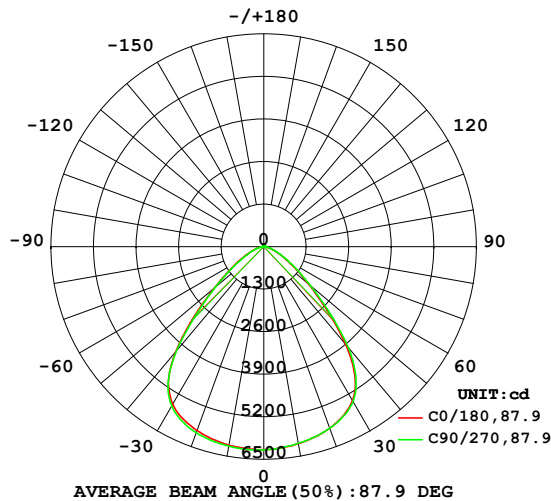


## LUMINAIRE PHOTOMETRIC TEST REPORT

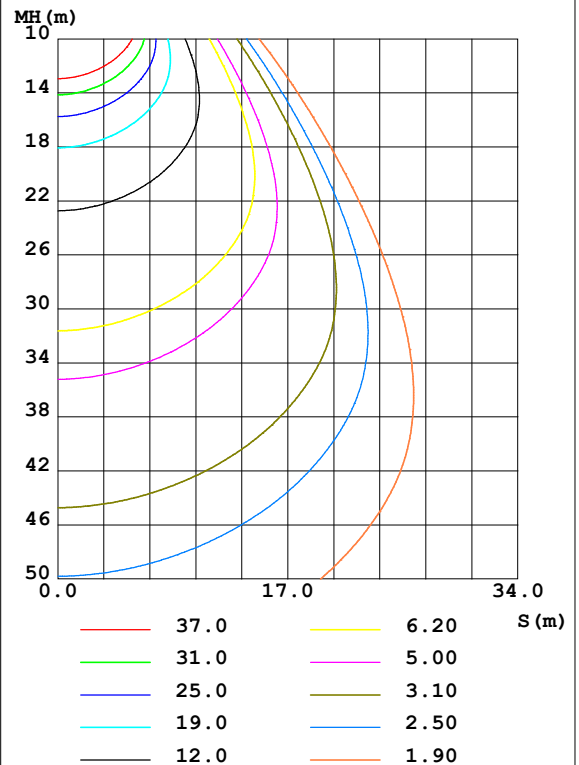
Test:U:120.7V I:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.40 lm/W			
MODEL		I <sub>max</sub> (cd)	6217	S/MH(C0/180)	1.27
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12343	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	12342.7	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	6111	6096	6104	6131	6157	6192	6192	6157	0- 10	589.4	589.4	4.78,4.78
20	5904	5887	5905	5941	5976	6053	6052	5961	10- 20	1716	2305	18.7,18.7
30	5428	5429	5455	5521	5563	5641	5625	5494	20- 30	2667	4972	40.3,40.3
40	3879	3901	4006	4169	4186	4223	4140	3916	30- 40	3073	8045	65.2,65.2
50	1800	1826	1881	1982	1993	1949	1930	1805	40- 50	2223	10269	83.2,83.2
60	786.0	811.4	839.0	873.6	872.2	852.7	822.2	783.2	50- 60	1148	11417	92.5,92.5
70	318.7	337.8	348.4	368.8	363.9	348.2	332.6	315.8	60- 70	547.5	11964	96.9,96.9
80	86.64	99.85	107.9	115.2	104.4	93.30	83.66	78.70	70- 80	216.4	12181	98.7,98.7
90	5.739	6.586	6.698	6.046	3.990	4.646	3.928	5.282	80- 90	38.07	12219	99,99
100	6.500	6.378	6.323	6.004	5.679	5.741	5.888	6.078	90-100	5.576	12224	99,99
110	11.43	11.23	11.22	10.64	10.22	10.14	10.50	10.67	100-110	8.725	12233	99.1,99.1
120	17.66	17.35	17.52	16.62	16.36	15.99	16.58	16.67	110-120	13.57	12247	99.2,99.2
130	24.53	23.97	24.46	23.22	23.64	22.79	23.71	23.54	120-130	18.12	12265	99.4,99.4
140	30.88	30.34	30.75	29.72	30.64	29.80	30.67	30.50	130-140	20.93	12286	99.5,99.5
150	36.39	36.47	36.34	35.99	36.60	36.53	36.82	37.21	140-150	21.00	12307	99.7,99.7
160	42.82	42.58	42.78	42.16	43.16	42.91	43.40	43.56	150-160	18.26	12325	99.9,99.9
170	49.19	48.72	49.20	48.42	49.47	49.07	49.58	49.55	160-170	13.01	12338	100,100
180	52.46	52.00	52.52	51.96	52.42	52.03	52.51	52.02	170-180	4.826	12343	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9321.3 lm

%lum = 75.5%

%lamp = 75.5%

Conical surface Flux(120deg): 11417 lm

%lum = 92.5%

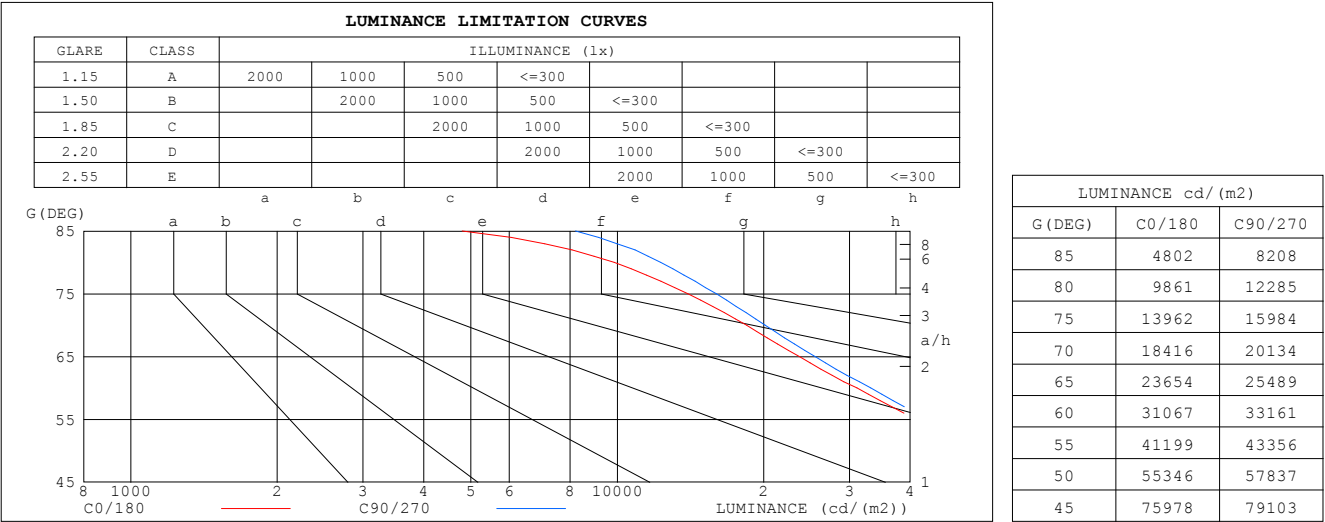
%lamp = 92.5%

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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-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 .130 .041	.214 .123 .039	.201 .116 .037	.190 .110 .035	
2.0	.227 .125 .038	.221 .122 .038	.210 .117 .036	.199 .112 .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	.164 .080 .022	.161 .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	.132 .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 .051	.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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm										
NAME: H17S-80W-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	25.0	26.3	25.3	26.5	26.7	25.2	26.5	25.5	26.7	26.9
3H	25.3	26.4	25.6	26.7	26.9	25.5	26.6	25.8	26.8	27.1
4H	25.3	26.4	25.6	26.7	26.9	25.5	26.6	25.8	26.9	27.1
6H	25.3	26.3	25.6	26.6	26.9	25.5	26.6	25.9	26.8	27.1
8H	25.3	26.3	25.6	26.5	26.8	25.5	26.5	25.9	26.8	27.1
12H	25.2	26.2	25.6	26.5	26.8	25.5	26.4	25.8	26.7	27.0
4H 2H	25.1	26.2	25.4	26.4	26.7	25.2	26.3	25.6	26.6	26.8
3H	25.4	26.4	25.8	26.7	27.0	25.6	26.6	26.0	26.9	27.2
4H	25.5	26.4	25.9	26.7	27.1	25.7	26.6	26.1	26.9	27.3
6H	25.6	26.3	26.0	26.7	27.1	25.8	26.6	26.2	26.9	27.3
8H	25.6	26.3	26.0	26.6	27.0	25.8	26.5	26.2	26.9	27.3
12H	25.5	26.2	26.0	26.6	27.0	25.8	26.4	26.2	26.8	27.2
8H 4H	25.5	26.2	25.9	26.6	27.0	25.7	26.4	26.1	26.8	27.2
6H	25.6	26.2	26.1	26.6	27.0	25.8	26.4	26.3	26.8	27.3
8H	25.6	26.1	26.1	26.5	27.0	25.9	26.4	26.3	26.8	27.3
12H	25.6	26.0	26.1	26.5	27.0	25.9	26.3	26.4	26.7	27.2
12H 4H	25.5	26.1	25.9	26.5	26.9	25.7	26.3	26.1	26.7	27.1
6H	25.6	26.1	26.1	26.5	27.0	25.8	26.3	26.3	26.7	27.2
8H	25.6	26.0	26.1	26.5	27.0	25.8	26.3	26.3	26.7	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.1 / - 1.5				
1.5H	+ 1.3 / - 1.2					+ 1.2 / - 1.2				
2.0H	+ 2.4 / - 1.9					+ 2.4 / - 1.9				

CIE Pub.117, 12343 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 8.7$ )

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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

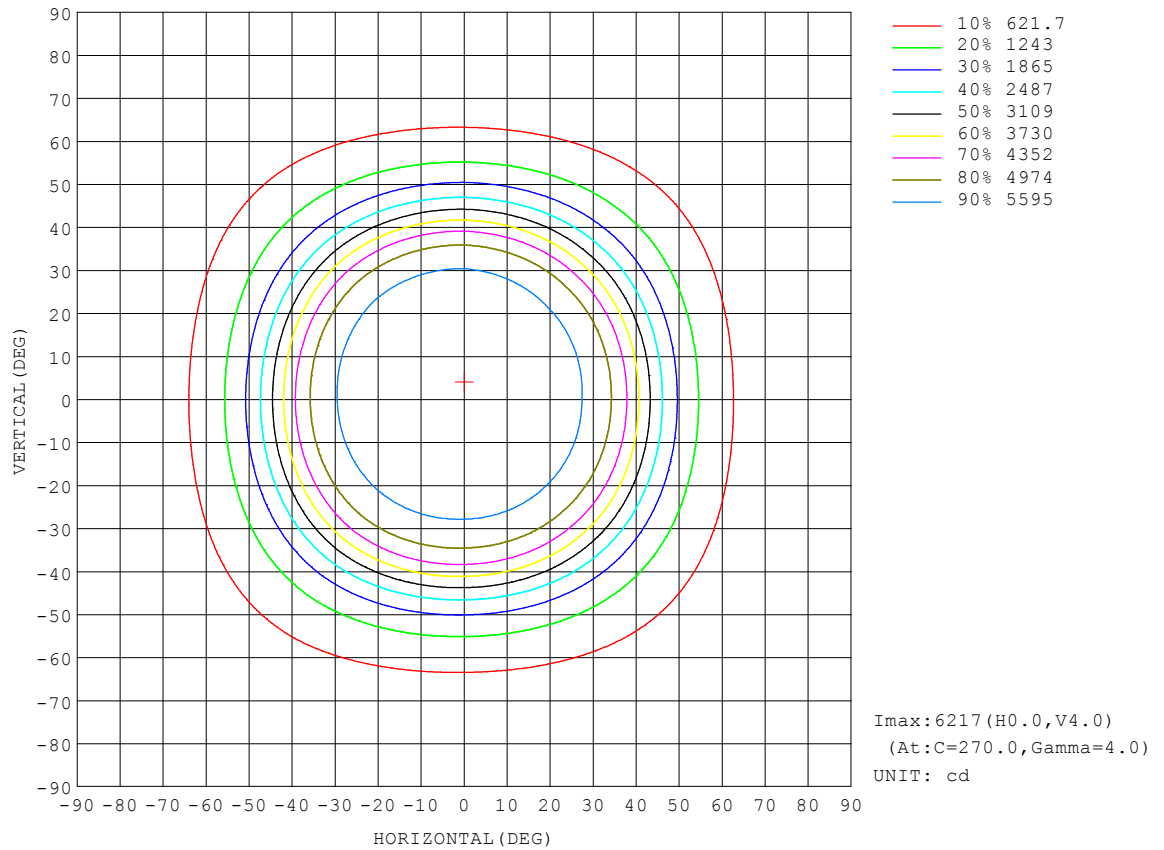
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	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	72
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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

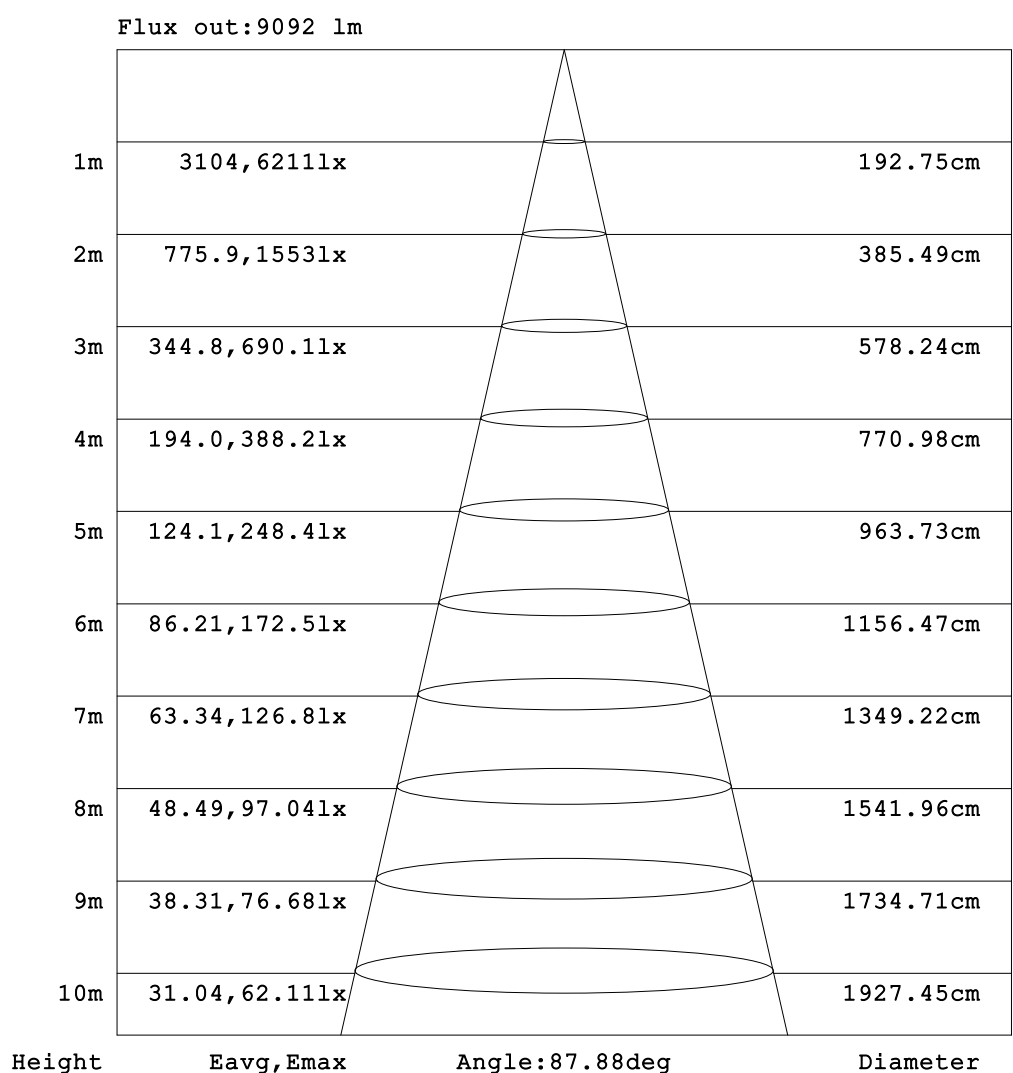


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

☐ 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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm		
NAME: H17S-80W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



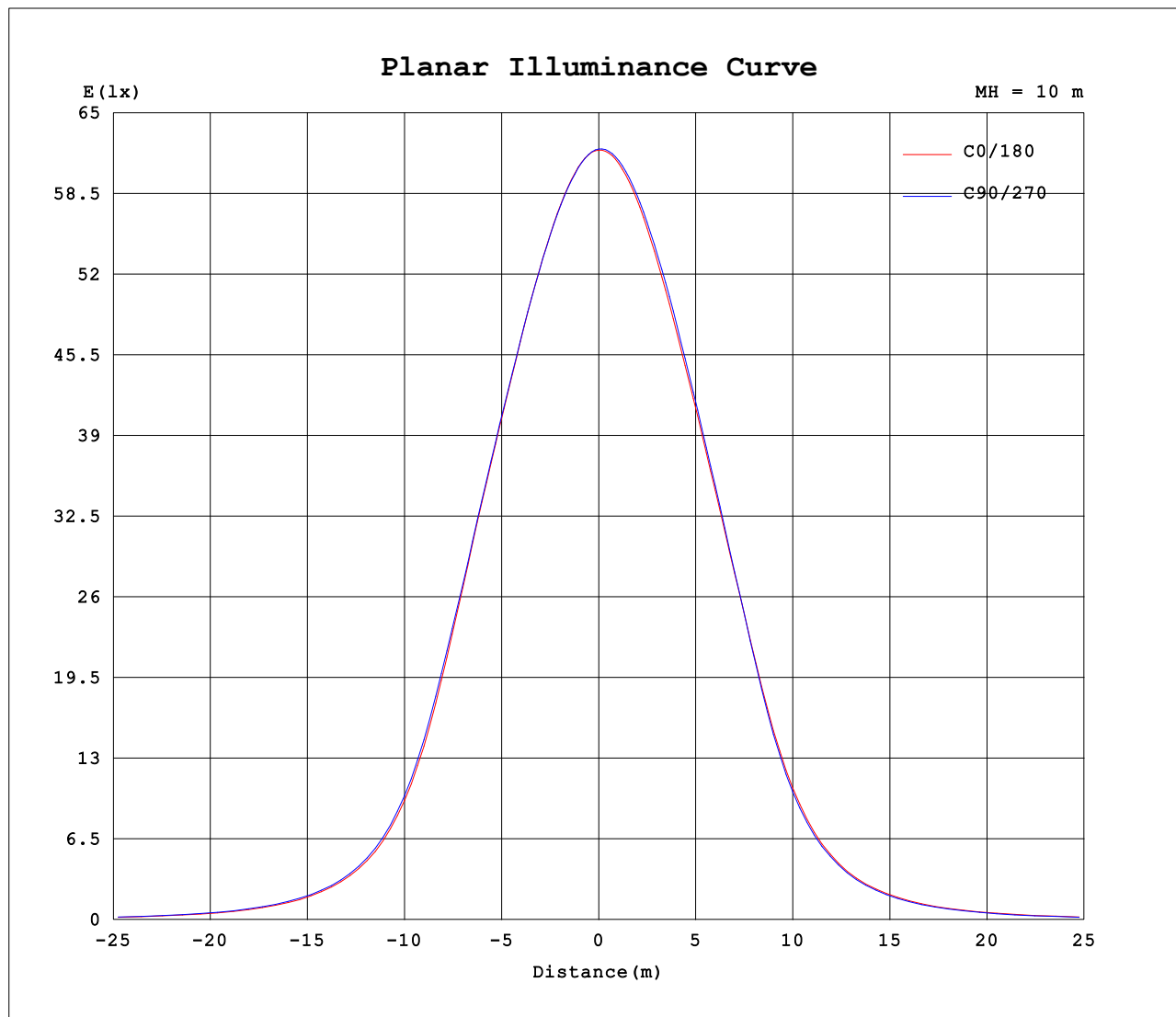
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.6168A P:74.17W PF:0.9964 Freq:59.96Hz Lamp Flux:12342.7x1 lm								
NAME: H17S-80W-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	6201	6206	6209	6211	6201	6206	6209	6211										
5	6173	6165	6170	6186	6196	6214	6217	6203										
10	6111	6096	6104	6131	6157	6192	6192	6157										
15	6023	6008	6020	6052	6083	6140	6137	6078										
20	5904	5887	5905	5941	5976	6053	6052	5961										
25	5717	5711	5733	5779	5823	5901	5896	5788										
30	5428	5429	5455	5521	5563	5641	5625	5494										
35	4864	4855	4915	5041	5084	5149	5104	4935										
40	3879	3901	4006	4169	4186	4223	4140	3916										
45	2718	2746	2830	2989	3003	2970	2912	2729										
50	1800	1826	1881	1982	1993	1949	1930	1805										
55	1196	1218	1258	1310	1312	1288	1259	1193										
60	786	811	839	874	872	853	822	783										
65	506	530	545	575	571	552	532	505										
70	319	338	348	369	364	348	333	316										
75	183	199	209	222	213	198	186	176										
80	86.6	99.8	108	115	104	93.3	83.7	78.7										
85	21.2	30.3	36.2	39.5	30.3	22.2	16.7	14.5										
90	5.74	6.59	6.70	6.05	3.99	4.65	3.93	5.28										
95	4.97	5.25	5.00	5.23	4.19	4.65	4.31	4.64										
100	6.50	6.38	6.32	6.00	5.68	5.74	5.89	6.08										
105	8.76	8.58	8.54	8.08	7.70	7.73	7.95	8.17										
110	11.4	11.2	11.2	10.6	10.2	10.1	10.5	10.7										
115	14.4	14.2	14.3	13.5	13.1	12.9	13.4	13.5										
120	17.7	17.3	17.5	16.6	16.4	16.0	16.6	16.7										
125	21.1	20.7	21.0	19.9	19.9	19.3	20.1	20.1										
130	24.5	24.0	24.5	23.2	23.6	22.8	23.7	23.5										
135	27.8	27.2	27.7	26.5	27.3	26.3	27.3	27.0										
140	30.9	30.3	30.7	29.7	30.6	29.8	30.7	30.5										
145	33.6	33.7	33.5	33.1	33.7	33.4	33.8	34.1										
150	36.4	36.5	36.3	36.0	36.6	36.5	36.8	37.2										
155	39.4	39.4	39.4	38.9	39.7	39.6	39.9	40.3										
160	42.8	42.6	42.8	42.2	43.2	42.9	43.4	43.6										
165	46.3	45.9	46.2	45.5	46.7	46.3	46.9	46.9										
170	49.2	48.7	49.2	48.4	49.5	49.1	49.6	49.5										
175	51.4	51.0	51.4	50.8	51.5	51.1	51.6	51.4										
180	52.5	52.0	52.5	52.0	52.4	52.0	52.5	52.0										

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: