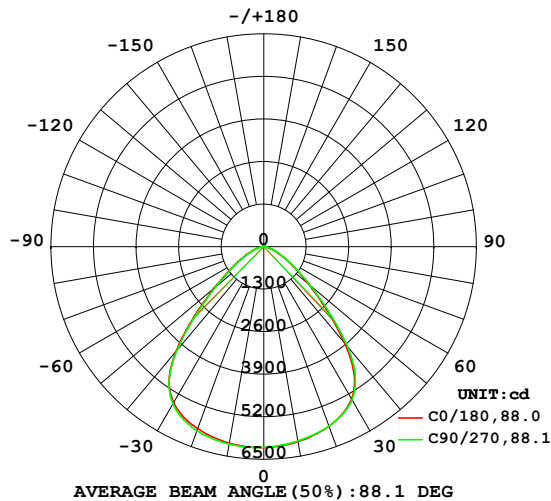


## LUMINAIRE PHOTOMETRIC TEST REPORT

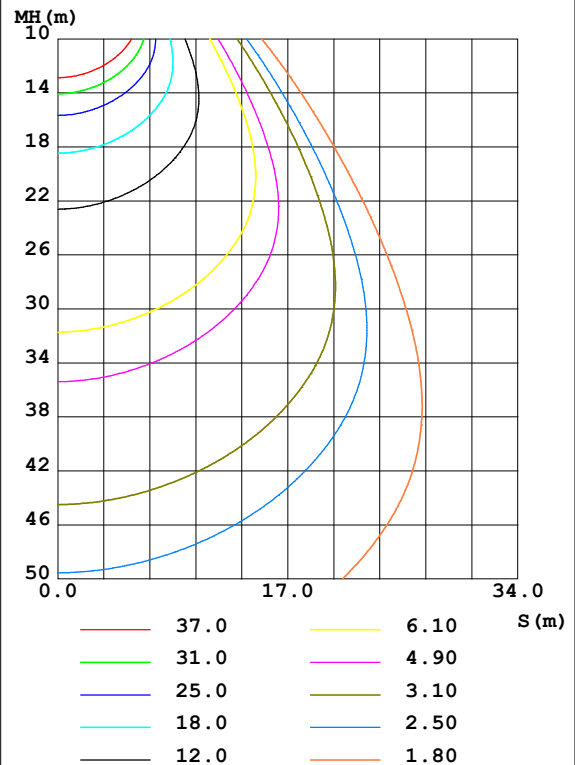
Test:U:120.7V I:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.96 lm/W			
MODEL		I <sub>max</sub> (cd)	6149	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)	12248	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	12248.4	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	6048	6024	6027	6055	6096	6130	6126	6084	0- 10	582.7	582.7	4.76,4.76
20	5840	5814	5831	5866	5917	5991	5984	5894	10- 20	1696	2279	18.6,18.6
30	5374	5376	5404	5461	5508	5578	5552	5421	20- 30	2638	4917	40.1,40.1
40	3853	3880	3988	4154	4179	4193	4109	3889	30- 40	3047	7964	65,65
50	1799	1819	1876	1975	1992	1947	1918	1799	40- 50	2214	10178	83.1,83.1
60	791.2	813.3	842.4	869.1	872.6	846.5	818.2	783.2	50- 60	1146	11324	92.4,92.4
70	321.9	340.4	346.9	366.4	365.8	345.5	331.0	315.8	60- 70	547.4	11871	96.9,96.9
80	88.02	100.8	107.5	114.1	105.5	93.05	83.11	78.66	70- 80	216.5	12087	98.7,98.7
90	5.716	6.523	6.675	6.012	3.990	4.594	3.906	5.269	80- 90	38.11	12126	99,99
100	6.475	6.347	6.277	5.966	5.661	5.720	5.867	6.042	90-100	5.549	12131	99,99
110	11.35	11.15	11.11	10.55	10.15	10.09	10.43	10.60	100-110	8.675	12140	99.1,99.1
120	17.53	17.20	17.34	16.47	16.24	15.86	16.46	16.52	110-120	13.47	12153	99.2,99.2
130	24.33	23.76	24.21	22.98	23.41	22.57	23.47	23.31	120-130	17.96	12171	99.4,99.4
140	30.63	30.05	30.41	29.38	30.37	29.49	30.37	30.16	130-140	20.73	12192	99.5,99.5
150	36.03	36.12	35.93	35.55	36.26	36.13	36.42	36.78	140-150	20.78	12213	99.7,99.7
160	42.40	42.16	42.29	41.65	42.74	42.44	42.92	43.04	150-160	18.06	12231	99.9,99.9
170	48.68	48.21	48.60	47.84	48.97	48.52	49.03	48.96	160-170	12.86	12244	100,100
180	51.90	51.45	51.88	51.35	51.92	51.44	51.90	51.37	170-180	4.772	12248	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9233.5 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(120deg): 11324 lm

%lum = 92.4%

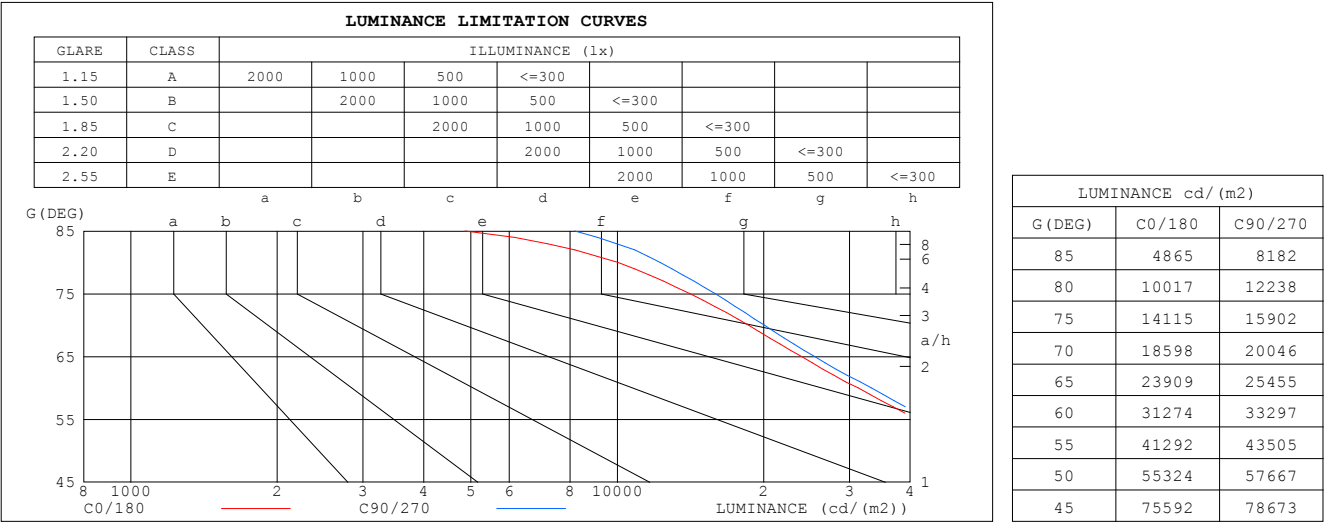
%lamp = 92.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.7V I:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	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	.235 .133 .042	.227 .130 .041	.214 .123 .039	.202 .116 .037	.190 .110 .036	
2.0	.228 .125 .038	.222 .122 .038	.210 .117 .036	.199 .112 .035	.189 .107 .034	
3.0	.217 .115 .035	.211 .113 .034	.201 .109 .033	.192 .105 .032	.183 .101 .031	
4.0	.205 .107 .031	.200 .105 .031	.191 .101 .030	.183 .098 .030	.175 .095 .029	
5.0	.194 .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	.170 .084 .024	.163 .082 .024	.157 .081 .023	.152 .079 .023	
8.0	.164 .080 .022	.161 .079 .022	.155 .077 .022	.150 .076 .022	.144 .074 .022	
9.0	.155 .075 .021	.153 .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 .120 .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 .044	.053 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.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	.134 .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	.106 .061 .031	.073 .043 .022	.043 .025 .013	.014 .008 .004	
10.0	.118 .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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm										
NAME: H17S-80W-5000K					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	26.9	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	25.7	26.6	26.9	25.5	26.6	25.9	26.8	27.1
8H	25.3	26.3	25.6	26.6	26.9	25.5	26.5	25.9	26.8	27.1
12H	25.3	26.2	25.6	26.5	26.8	25.5	26.4	25.9	26.7	27.0
4H 2H	25.1	26.2	25.4	26.5	26.7	25.2	26.3	25.6	26.6	26.9
3H	25.5	26.4	25.8	26.7	27.0	25.6	26.6	26.0	26.9	27.2
4H	25.6	26.4	25.9	26.7	27.1	25.8	26.6	26.1	26.9	27.3
6H	25.6	26.4	26.0	26.7	27.1	25.8	26.6	26.2	26.9	27.3
8H	25.6	26.3	26.0	26.7	27.1	25.8	26.5	26.3	26.9	27.3
12H	25.6	26.2	26.0	26.6	27.0	25.8	26.4	26.3	26.8	27.3
8H 4H	25.6	26.2	26.0	26.6	27.0	25.7	26.4	26.2	26.8	27.2
6H	25.6	26.2	26.1	26.6	27.1	25.9	26.4	26.3	26.8	27.3
8H	25.6	26.1	26.1	26.6	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	26.8	27.3
12H 4H	25.5	26.2	26.0	26.5	27.0	25.7	26.3	26.1	26.7	27.1
6H	25.6	26.1	26.1	26.6	27.0	25.8	26.3	26.3	26.8	27.2
8H	25.6	26.1	26.1	26.5	27.0	25.9	26.3	26.4	26.8	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.1 / - 1.5				
1.5H	+ 1.3 / - 1.2					+ 1.2 / - 1.1				
2.0H	+ 2.3 / - 1.9					+ 2.3 / - 1.9				

CIE Pub.117, 12248 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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

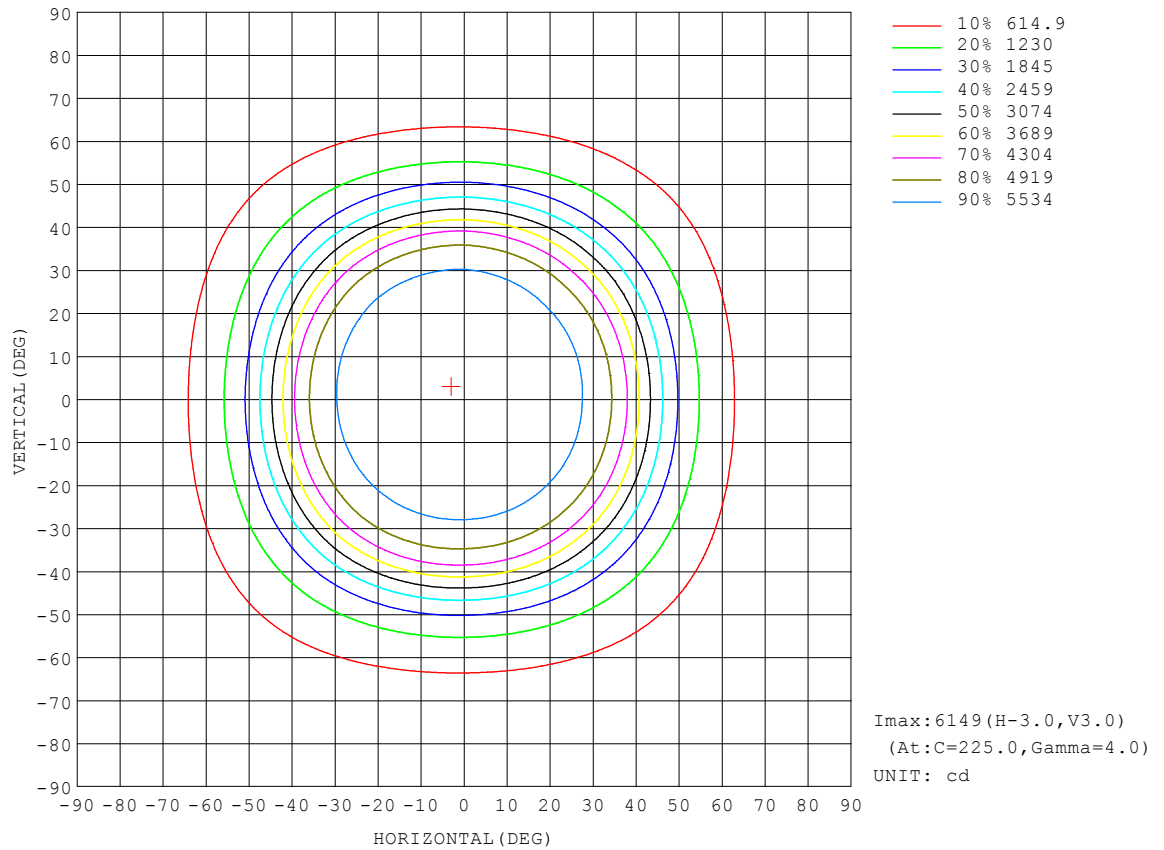
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	91	84	79	89	83	78	72
1.50	97	90	84	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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

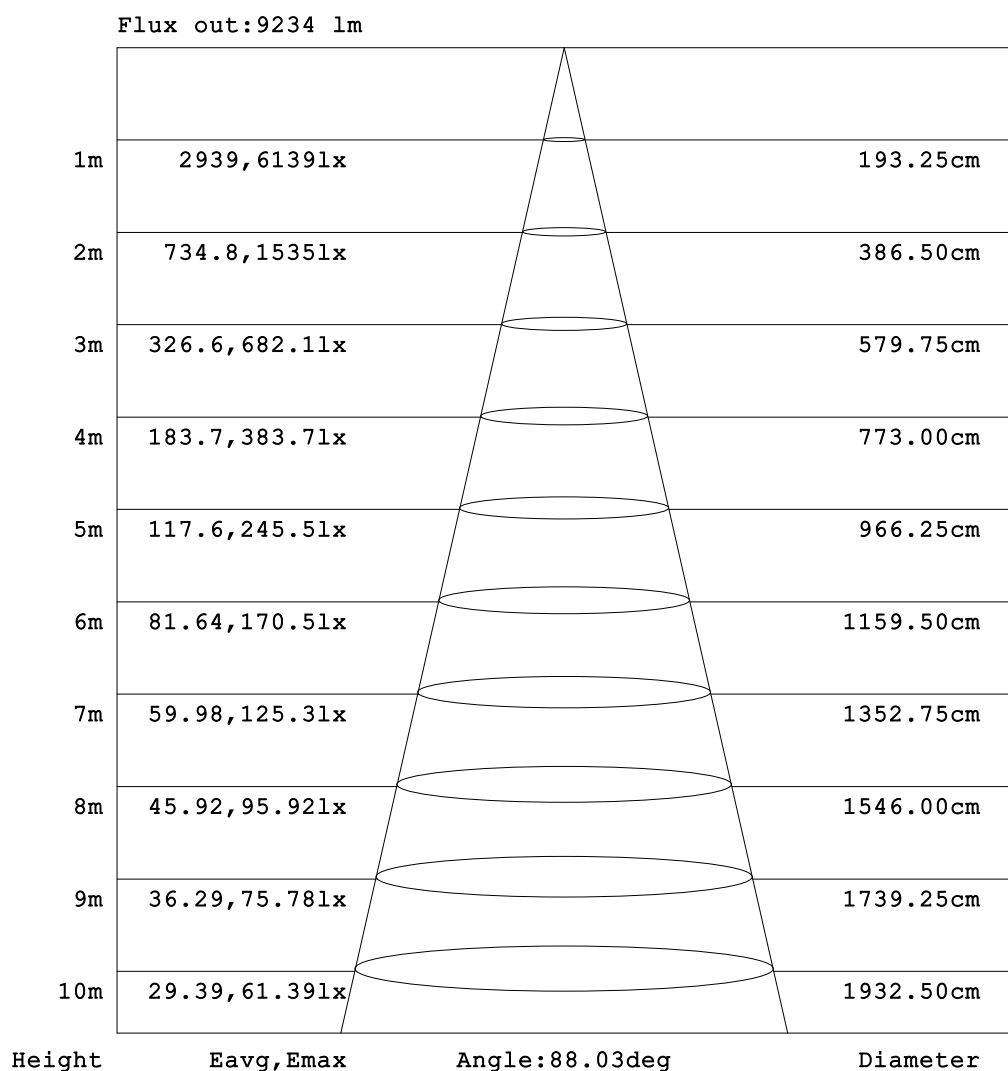


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2023-12-28

☐ 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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:



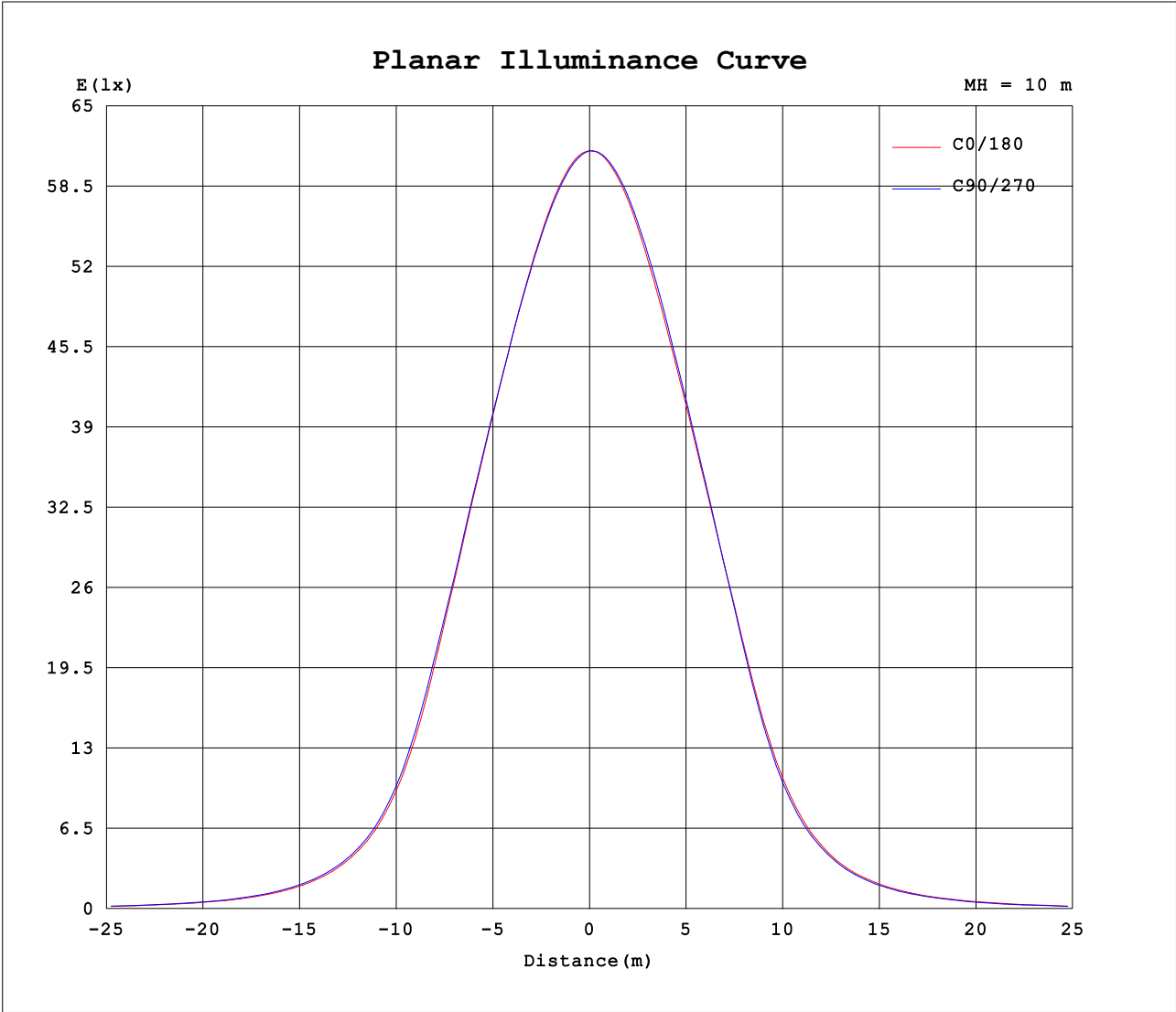
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.6487A P:78.03W PF:0.9967 Freq:59.99Hz Lamp Flux:12248.4x1 lm		
NAME: H17S-80W-5000K	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	6139	6136	6135	6132	6139	6136	6135	6132										
5	6110	6093	6093	6108	6134	6148	6145	6125										
10	6048	6024	6027	6055	6096	6130	6126	6084										
15	5960	5934	5943	5976	6024	6078	6073	6009										
20	5840	5814	5831	5866	5917	5991	5984	5894										
25	5659	5648	5670	5710	5762	5840	5825	5719										
30	5374	5376	5404	5461	5508	5578	5552	5421										
35	4825	4826	4883	5003	5046	5094	5045	4872										
40	3853	3880	3988	4154	4179	4193	4109	3889										
45	2705	2734	2815	2980	3000	2964	2895	2718										
50	1799	1819	1876	1975	1992	1947	1918	1799										
55	1198	1215	1263	1302	1310	1284	1252	1190										
60	791	813	842	869	873	847	818	783										
65	511	533	544	572	572	548	530	504										
70	322	340	347	366	366	346	331	316										
75	185	201	208	221	215	197	185	176										
80	88.0	101	108	114	105	93.0	83.1	78.7										
85	21.5	30.5	36.1	39.5	30.8	22.0	16.7	14.4										
90	5.72	6.52	6.67	6.01	3.99	4.59	3.91	5.27										
95	4.95	5.22	4.97	5.20	4.18	4.61	4.29	4.61										
100	6.48	6.35	6.28	5.97	5.66	5.72	5.87	6.04										
105	8.72	8.52	8.48	8.03	7.67	7.69	7.93	8.12										
110	11.3	11.1	11.1	10.6	10.1	10.1	10.4	10.6										
115	14.3	14.1	14.1	13.4	13.0	12.8	13.3	13.4										
120	17.5	17.2	17.3	16.5	16.2	15.9	16.5	16.5										
125	20.9	20.5	20.8	19.7	19.8	19.2	19.9	19.9										
130	24.3	23.8	24.2	23.0	23.4	22.6	23.5	23.3										
135	27.6	26.9	27.4	26.2	27.0	26.0	27.1	26.7										
140	30.6	30.1	30.4	29.4	30.4	29.5	30.4	30.2										
145	33.3	33.3	33.2	32.7	33.4	33.1	33.5	33.7										
150	36.0	36.1	35.9	35.6	36.3	36.1	36.4	36.8										
155	39.1	39.0	38.9	38.5	39.3	39.2	39.5	39.8										
160	42.4	42.2	42.3	41.6	42.7	42.4	42.9	43.0										
165	45.8	45.4	45.7	44.9	46.3	45.7	46.4	46.3										
170	48.7	48.2	48.6	47.8	49.0	48.5	49.0	49.0										
175	50.9	50.4	50.8	50.2	51.0	50.5	51.0	50.7										
180	51.9	51.5	51.9	51.3	51.9	51.4	51.9	51.4										

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: