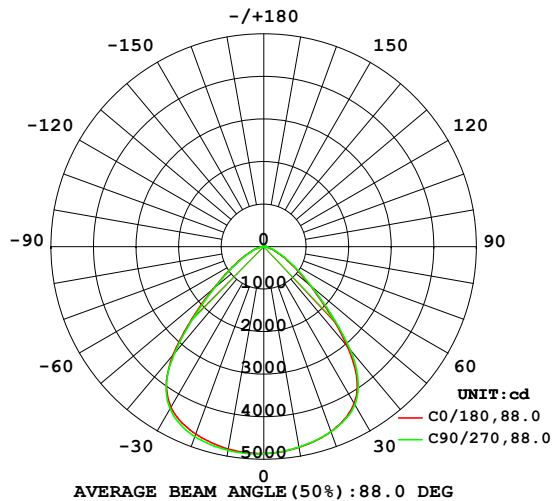


LUMINAIRE PHOTOMETRIC TEST REPORT

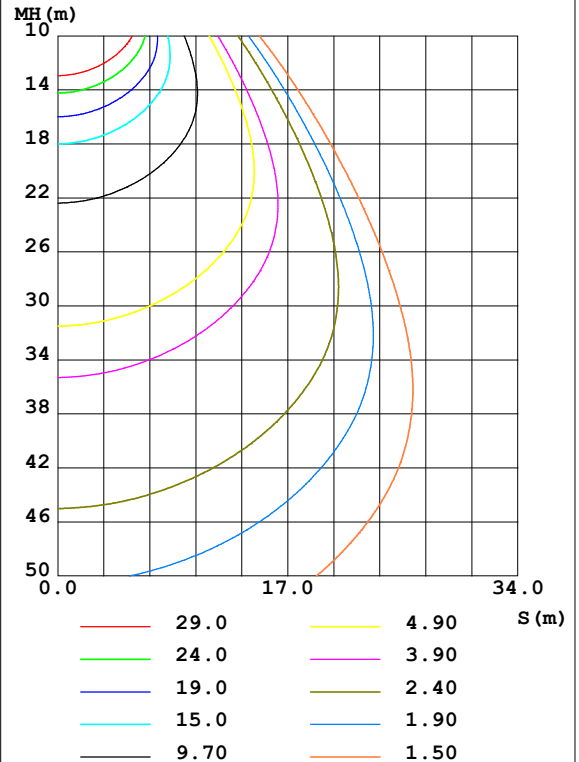
Test:U:120.7V I:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.88 lm/W			
MODEL		Imax(cd)	4877	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)	9710.0	□ UP,DN(C0-180)	0.5,49.0
NOMINAL FLUX(lm)	9710.04	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	4790	4777	4783	4809	4828	4860	4861	4831	0- 10	462.2	462.2	4.76,4.76
20	4624	4609	4629	4658	4686	4750	4749	4681	10- 20	1345	1808	18.6,18.6
30	4255	4260	4287	4338	4363	4424	4406	4306	20- 30	2092	3900	40.2,40.2
40	3049	3074	3162	3297	3311	3329	3259	3086	30- 40	2416	6316	65,65
50	1424	1428	1487	1554	1565	1544	1508	1427	40- 50	1754	8070	83.1,83.1
60	621.5	644.5	662.6	690.2	691.2	666.3	649.1	616.6	50- 60	907.2	8977	92.5,92.5
70	254.6	269.9	274.9	291.0	289.9	274.3	262.5	250.8	60- 70	433.8	9411	96.9,96.9
80	69.22	79.81	85.62	90.73	83.56	73.50	66.05	61.97	70- 80	171.7	9582	98.7,98.7
90	4.541	5.166	5.306	4.772	3.158	3.646	3.092	4.188	80- 90	30.22	9613	99,99
100	5.121	5.031	4.976	4.734	4.475	4.526	4.652	4.792	90-100	4.397	9617	99,99
110	9.002	8.823	8.839	8.354	8.019	7.983	8.258	8.410	100-110	6.869	9624	99.1,99.1
120	13.91	13.63	13.79	13.05	12.85	12.58	13.04	13.13	110-120	10.67	9635	99.2,99.2
130	19.29	18.81	19.22	18.23	18.55	17.89	18.61	18.51	120-130	14.24	9649	99.4,99.4
140	24.29	23.79	24.14	23.30	24.01	23.37	24.07	23.94	130-140	16.43	9665	99.5,99.5
150	28.58	28.61	28.53	28.21	28.64	28.66	28.85	29.22	140-150	16.48	9682	99.7,99.7
160	33.59	33.39	33.55	33.04	33.82	33.66	34.04	34.19	150-160	14.32	9696	99.9,99.9
170	38.56	38.20	38.57	37.98	38.76	38.46	38.88	38.87	160-170	10.20	9706	100,100
180	41.11	40.77	41.18	40.76	41.08	40.79	41.16	40.80	170-180	3.784	9710	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7322.5 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(120deg): 8977 lm

%lum = 92.5%

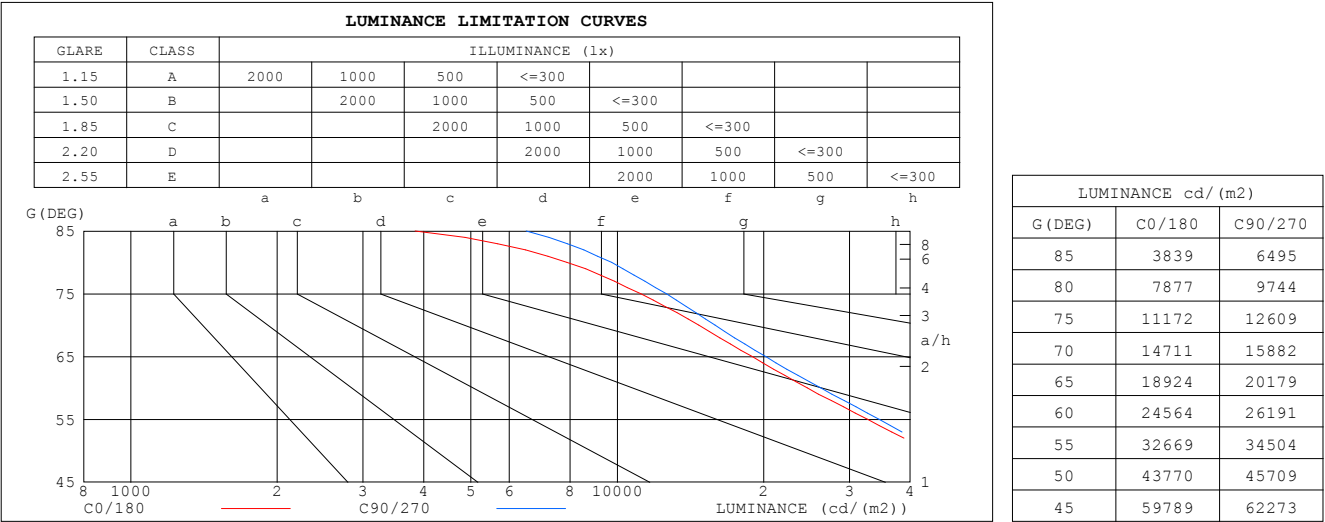
%lamp = 92.5%

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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-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	.221 .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	.052 .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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm										
NAME: H17S-60W-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	24.2	25.5	24.5	25.7	25.9	24.4	25.6	24.6	25.9	26.1
3H	24.5	25.6	24.8	25.9	26.1	24.7	25.8	24.9	26.0	26.3
4H	24.5	25.6	24.8	25.9	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	25.5	24.8	25.7	26.0	24.7	25.7	25.1	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	25.8	25.2	26.1	26.4
4H	24.7	25.6	25.1	25.9	26.3	24.9	25.8	25.3	26.1	26.5
6H	24.8	25.5	25.2	25.9	26.3	25.0	25.8	25.4	26.1	26.5
8H	24.8	25.5	25.2	25.8	26.2	25.0	25.7	25.4	26.1	26.5
12H	24.7	25.4	25.2	25.8	26.2	25.0	25.6	25.4	26.0	26.4
8H 4H	24.7	25.4	25.2	25.8	26.2	24.9	25.6	25.3	26.0	26.4
6H	24.8	25.4	25.3	25.8	26.2	25.0	25.6	25.5	26.0	26.5
8H	24.8	25.3	25.3	25.8	26.2	25.1	25.6	25.5	26.0	26.5
12H	24.8	25.2	25.3	25.7	26.2	25.1	25.5	25.6	26.0	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	25.3	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 / - 1.6					+ 1.1 / - 1.5				
1.5H	+ 1.3 / - 1.1					+ 1.2 / - 1.1				
2.0H	+ 2.3 / - 1.9					+ 2.3 / - 1.9				

CIE Pub.117, 9710 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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

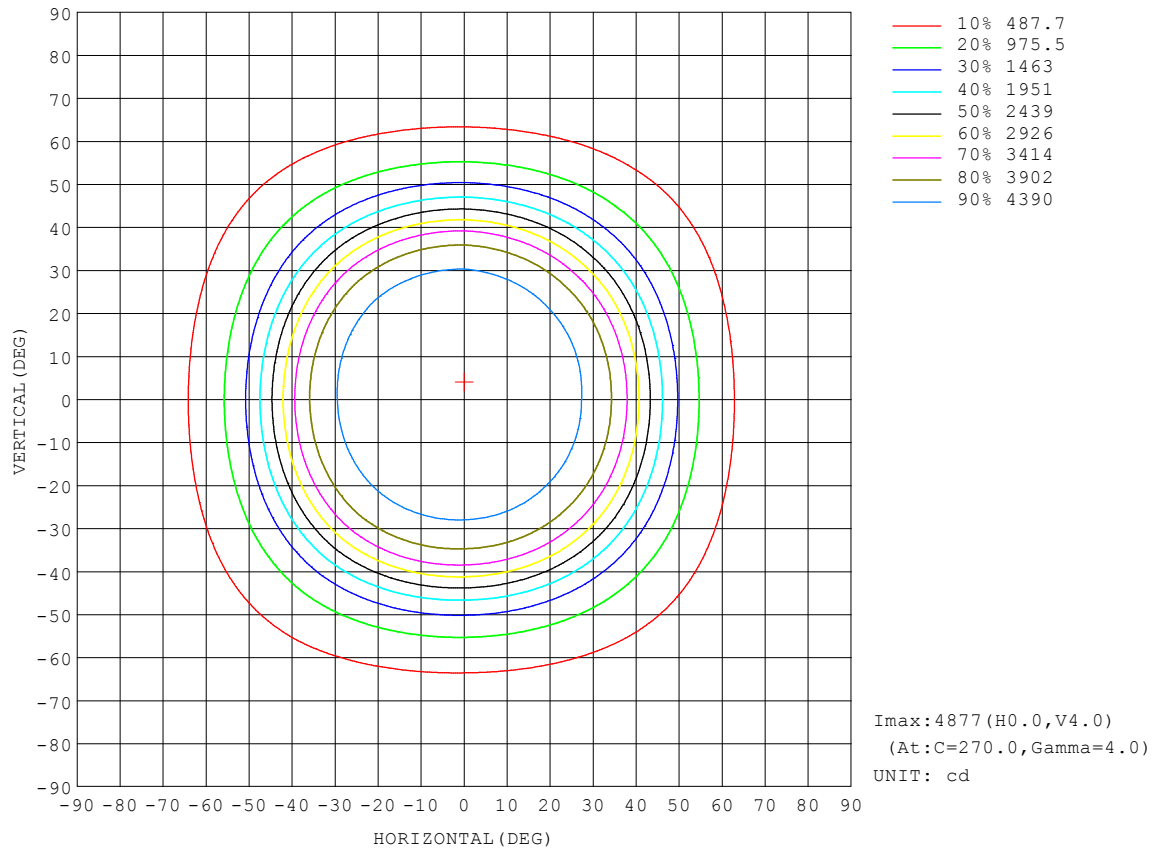
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

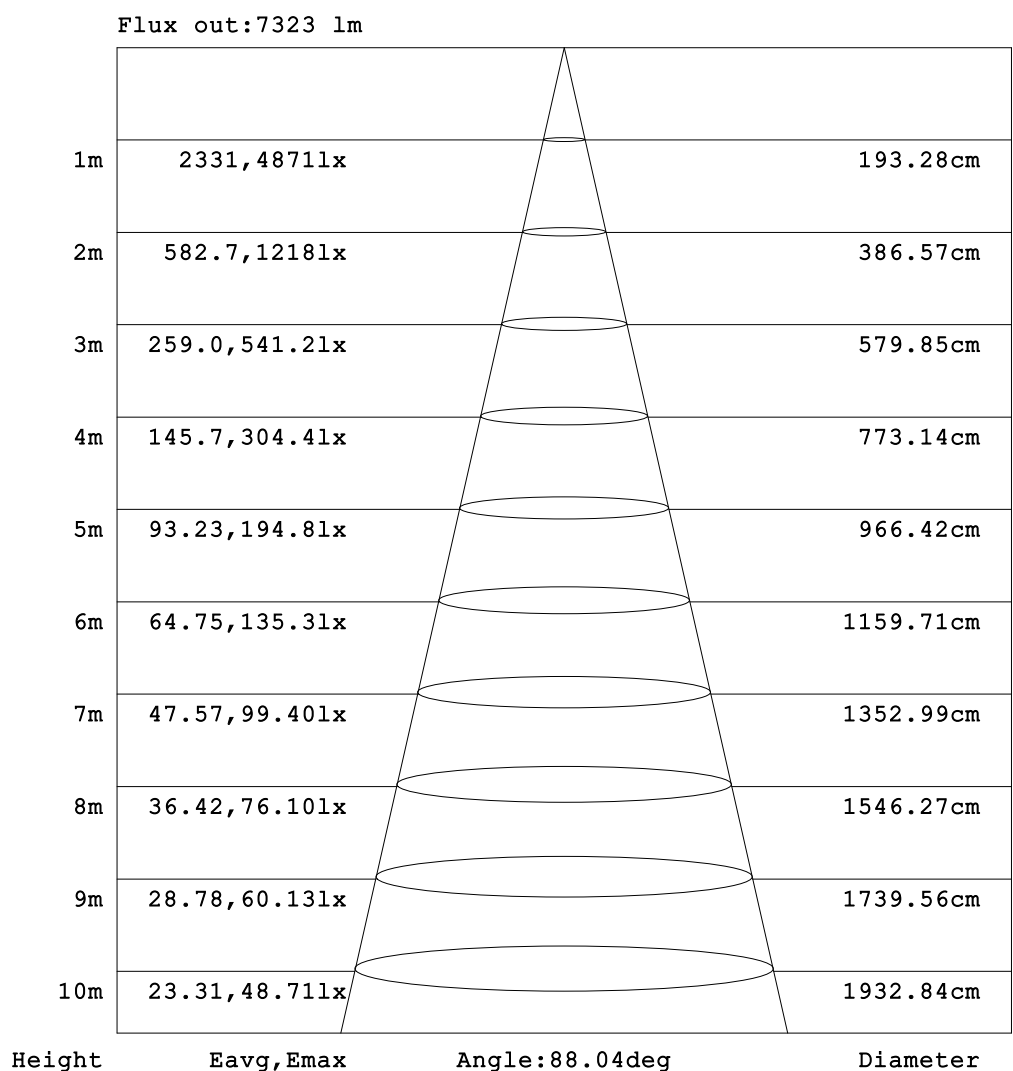


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-12-28

☐ 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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm		
NAME: H17S-60W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB Lighting Inc	SUR.:0.225*0.225	Shielding Angle:

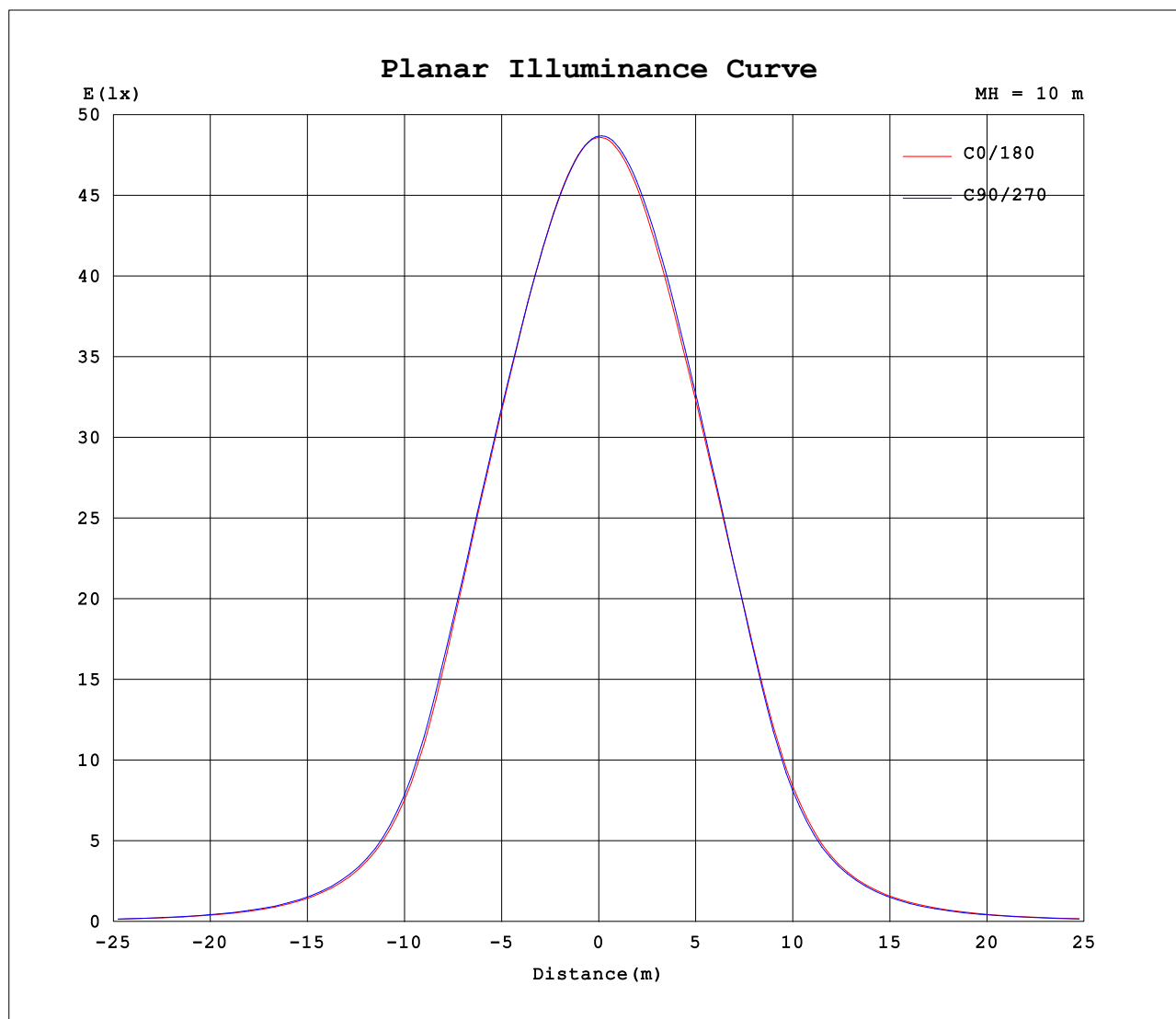


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.4965A P:59.61W PF:0.9946 Freq:59.98Hz Lamp Flux:9710.04x1 lm								
NAME: H17S-60W-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	4861	4865	4868	4871	4861	4865	4868	4871										
5	4838	4831	4835	4852	4856	4875	4876	4865										
10	4790	4777	4783	4809	4828	4860	4861	4831										
15	4721	4705	4716	4746	4770	4820	4821	4773										
20	4624	4609	4629	4658	4686	4750	4749	4681										
25	4480	4477	4500	4536	4563	4631	4623	4544										
30	4255	4260	4287	4338	4363	4424	4406	4306										
35	3820	3824	3875	3973	3996	4039	4002	3867										
40	3049	3074	3162	3297	3311	3329	3259	3086										
45	2139	2166	2228	2364	2378	2350	2296	2153										
50	1424	1428	1487	1554	1565	1544	1508	1427										
55	948	963	1001	1034	1037	1019	993	945										
60	621	645	663	690	691	666	649	617										
65	405	422	432	454	453	435	421	400										
70	255	270	275	291	290	274	263	251										
75	146	160	165	175	171	157	147	139										
80	69.2	79.8	85.6	90.7	83.6	73.5	66.1	62.0										
85	16.9	24.1	28.6	31.5	24.4	17.5	13.3	11.4										
90	4.54	5.17	5.31	4.77	3.16	3.65	3.09	4.19										
95	3.91	4.14	3.94	4.13	3.30	3.65	3.41	3.66										
100	5.12	5.03	4.98	4.73	4.48	4.53	4.65	4.79										
105	6.90	6.75	6.71	6.36	6.06	6.08	6.27	6.44										
110	9.00	8.82	8.84	8.35	8.02	7.98	8.26	8.41										
115	11.4	11.1	11.2	10.6	10.3	10.2	10.5	10.7										
120	13.9	13.6	13.8	13.0	12.8	12.6	13.0	13.1										
125	16.6	16.2	16.5	15.6	15.7	15.2	15.8	15.8										
130	19.3	18.8	19.2	18.2	18.6	17.9	18.6	18.5										
135	21.9	21.3	21.8	20.8	21.4	20.6	21.4	21.2										
140	24.3	23.8	24.1	23.3	24.0	23.4	24.1	23.9										
145	26.4	26.4	26.3	25.9	26.4	26.2	26.5	26.8										
150	28.6	28.6	28.5	28.2	28.6	28.7	28.8	29.2										
155	31.0	30.9	30.9	30.5	31.1	31.1	31.3	31.6										
160	33.6	33.4	33.6	33.0	33.8	33.7	34.0	34.2										
165	36.3	36.0	36.3	35.7	36.6	36.3	36.8	36.8										
170	38.6	38.2	38.6	38.0	38.8	38.5	38.9	38.9										
175	40.3	40.0	40.3	39.9	40.4	40.1	40.5	40.3										
180	41.1	40.8	41.2	40.8	41.1	40.8	41.2	40.8										

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: