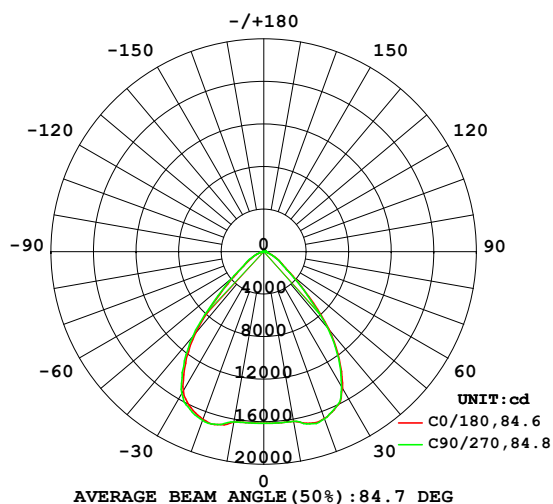


## LUMINAIRE PHOTOMETRIC TEST REPORT

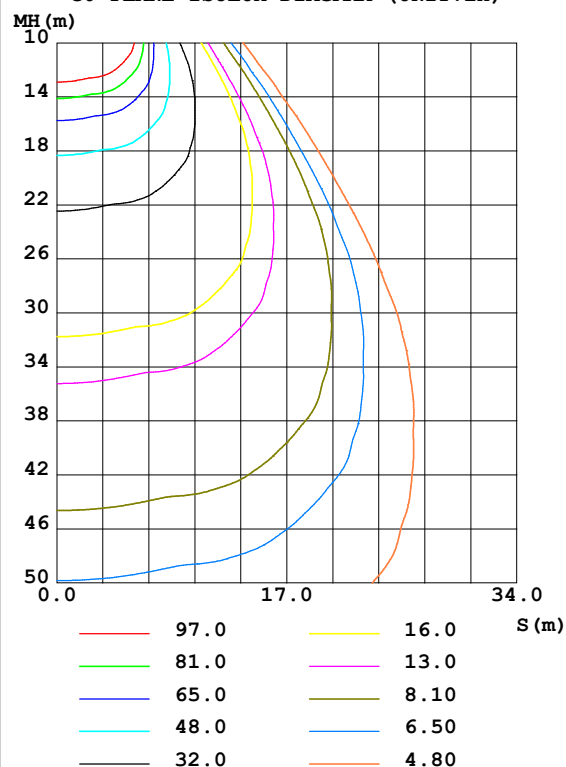
Test:U:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.25 lm/W			
MODEL		I <sub>max</sub> (cd)	16986	S/MH(C0/180)	1.23
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	30890	□ UP,DN(C0-180)	1.1,48.1
NOMINAL FLUX(lm)	30890	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.1,49.8
LAMPS INSIDE	1	□ up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	97.9	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

□ 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	1621	1621	1620	1622	1628	1625	1625	1626	0- 10	1544	1544	5,5
20	1670	1668	1671	1675	1678	1690	1688	1670	10- 20	4736	6281	20.3,20.3
30	1480	1475	1466	1509	1512	1539	1540	1470	20- 30	7438	13719	44.4,44.4
40	957.1	928.5	932.5	989.8	998.3	1063	1037	937.9	30- 40	7848	21567	69.8,69.8
50	353.5	327.0	335.8	370.5	373.0	414.7	390.4	350.6	40- 50	4905	26472	85.7,85.7
60	160.3	150.1	149.9	160.5	154.6	171.3	166.9	157.7	50- 60	2120	28592	92.6,92.6
70	57.96	53.24	55.09	60.18	57.87	66.14	64.45	57.15	60- 70	1061	29653	96,96
80	24.36	22.60	23.00	24.99	24.20	26.91	26.26	24.70	70- 80	400.5	30053	97.3,97.3
90	9.459	8.674	8.994	9.724	9.208	9.309	9.538	9.375	80- 90	175.5	30229	97.9,97.9
100	7.184	7.282	7.244	7.084	6.928	6.885	6.949	7.079	90-100	81.86	30311	98.1,98.1
110	8.599	8.960	8.857	8.708	8.582	8.572	8.420	8.792	100-110	81.15	30392	98.4,98.4
120	11.73	12.15	11.83	11.73	10.77	10.96	10.97	12.01	110-120	99.50	30491	98.7,98.7
130	11.75	12.37	11.59	11.76	10.90	11.01	11.04	11.49	120-130	105.9	30597	99.1,99.1
140	12.63	12.83	12.50	12.48	12.50	12.32	12.44	12.59	130-140	91.96	30689	99.4,99.4
150	13.26	13.26	13.26	12.98	13.27	13.00	13.18	13.28	140-150	81.13	30770	99.6,99.6
160	14.39	14.44	14.50	14.08	14.40	14.17	14.24	14.34	150-160	62.99	30833	99.8,99.8
170	15.33	15.04	15.47	14.97	15.46	15.16	15.39	14.68	160-170	42.10	30876	100,100
180	15.63	14.88	15.49	14.89	15.63	14.89	15.49	14.88	170-180	14.47	30890	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 24516 lm

%lum = 79.4%

%lamp = 79.4%

Conical surface Flux(120deg): 28592 lm

%lum = 92.6%

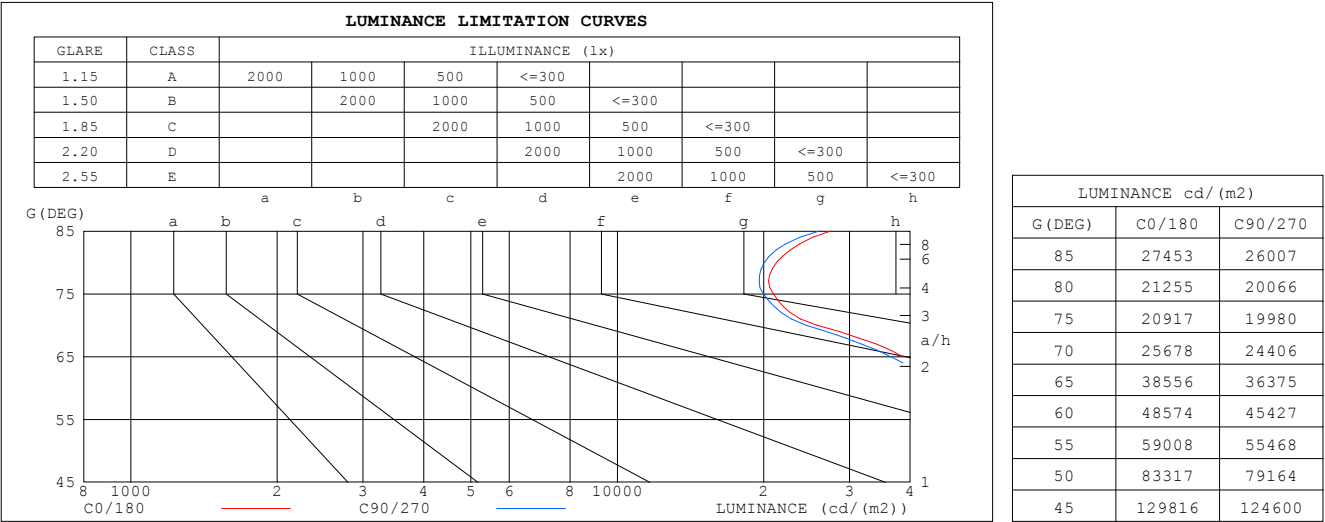
%lamp = 92.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

□ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm					
NAME: H17XL-RPC-200W-5K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.29*0.29m		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	.227	.129	.041	.220	.125	.040	.206	.118	.038	.193	.111	.036	.181	.105	.034	
2.0	.219	.120	.037	.212	.117	.036	.200	.111	.035	.189	.106	.033	.178	.101	.032	
3.0	.208	.111	.033	.202	.108	.033	.191	.104	.032	.182	.099	.031	.172	.095	.030	
4.0	.197	.102	.030	.192	.100	.030	.182	.097	.029	.174	.093	.028	.165	.090	.027	
5.0	.186	.095	.027	.182	.093	.027	.173	.090	.027	.165	.087	.026	.158	.085	.025	
6.0	.176	.088	.025	.172	.087	.025	.165	.084	.025	.158	.082	.024	.151	.080	.024	
7.0	.167	.082	.023	.163	.081	.023	.157	.079	.023	.150	.077	.022	.144	.075	.022	
8.0	.158	.077	.022	.155	.076	.022	.149	.074	.021	.143	.073	.021	.138	.071	.021	
9.0	.150	.073	.020	.148	.072	.020	.142	.070	.020	.137	.069	.020	.132	.067	.019	
10.0	.143	.069	.019	.141	.068	.019	.136	.066	.019	.131	.065	.018	.126	.064	.018	

<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	.207	.207	.207	.177	.177	.177	.121	.121	.121	.069	.069	.069	.022	.022	.022	
1.0	.191	.173	.157	.163	.149	.135	.112	.102	.094	.064	.059	.054	.021	.019	.018	
2.0	.179	.149	.123	.153	.128	.107	.105	.089	.074	.061	.052	.044	.019	.017	.014	
3.0	.169	.131	.100	.145	.113	.086	.100	.078	.061	.057	.046	.036	.018	.015	.012	
4.0	.161	.117	.083	.138	.101	.072	.095	.070	.051	.055	.041	.030	.018	.013	.010	
5.0	.153	.106	.071	.131	.091	.061	.091	.064	.043	.052	.037	.026	.017	.012	.008	
6.0	.146	.097	.061	.126	.084	.053	.087	.059	.038	.050	.035	.022	.016	.011	.007	
7.0	.140	.090	.054	.121	.078	.047	.083	.055	.034	.048	.032	.020	.016	.011	.007	
8.0	.135	.084	.049	.116	.073	.043	.080	.051	.030	.047	.030	.018	.015	.010	.006	
9.0	.129	.079	.045	.111	.069	.039	.077	.048	.028	.045	.028	.017	.015	.009	.005	
10.0	.124	.075	.042	.107	.065	.036	.074	.046	.026	.043	.027	.015	.014	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm											
NAME: H17XL-RPC-200W-5K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: RAB LIGHTING INC						SUR.:0.29*0.29m		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	2H	26.2	27.4	26.5	27.7	27.9	26.1	27.3	26.4	27.5	27.7
	3H	26.4	27.5	26.7	27.7	28.0	26.2	27.3	26.5	27.6	27.8
	4H	26.4	27.4	26.7	27.7	28.0	26.2	27.3	26.5	27.5	27.8
	6H	26.4	27.4	26.7	27.7	28.0	26.2	27.2	26.6	27.5	27.8
	8H	26.4	27.3	26.8	27.6	28.0	26.2	27.2	26.6	27.5	27.8
	12H	26.4	27.3	26.8	27.6	28.0	26.2	27.1	26.6	27.4	27.8
4H	2H	26.2	27.2	26.5	27.5	27.8	26.1	27.1	26.4	27.4	27.6
	3H	26.4	27.3	26.8	27.6	28.0	26.3	27.2	26.6	27.5	27.8
	4H	26.5	27.3	26.9	27.6	28.0	26.3	27.1	26.7	27.5	27.8
	6H	26.6	27.3	27.0	27.6	28.0	26.4	27.1	26.8	27.5	27.9
	8H	26.6	27.2	27.0	27.6	28.1	26.4	27.1	26.9	27.5	27.9
	12H	26.6	27.2	27.1	27.7	28.1	26.5	27.1	26.9	27.5	27.9
8H	4H	26.4	27.1	26.9	27.5	27.9	26.3	26.9	26.7	27.3	27.7
	6H	26.6	27.1	27.0	27.5	28.0	26.4	26.9	26.9	27.4	27.8
	8H	26.6	27.1	27.1	27.6	28.1	26.5	26.9	27.0	27.4	27.9
	12H	26.8	27.2	27.3	27.6	28.2	26.6	27.0	27.1	27.5	28.0
12H	4H	26.4	27.0	26.8	27.4	27.8	26.2	26.8	26.7	27.2	27.7
	6H	26.5	27.0	27.0	27.5	28.0	26.4	26.9	26.9	27.3	27.8
	8H	26.6	27.0	27.2	27.5	28.0	26.5	26.9	27.0	27.4	27.9
Variations with the observer position at spacings:											
S = 1.0H	+ 1.4 / - 2.2					+ 1.4 / - 2.3					
1.5H	+ 2.1 / - 2.0					+ 2.1 / - 2.0					
2.0H	+ 3.0 / - 1.6					+ 3.0 / - 1.6					

CIE Pub.117, 30890 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.9$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

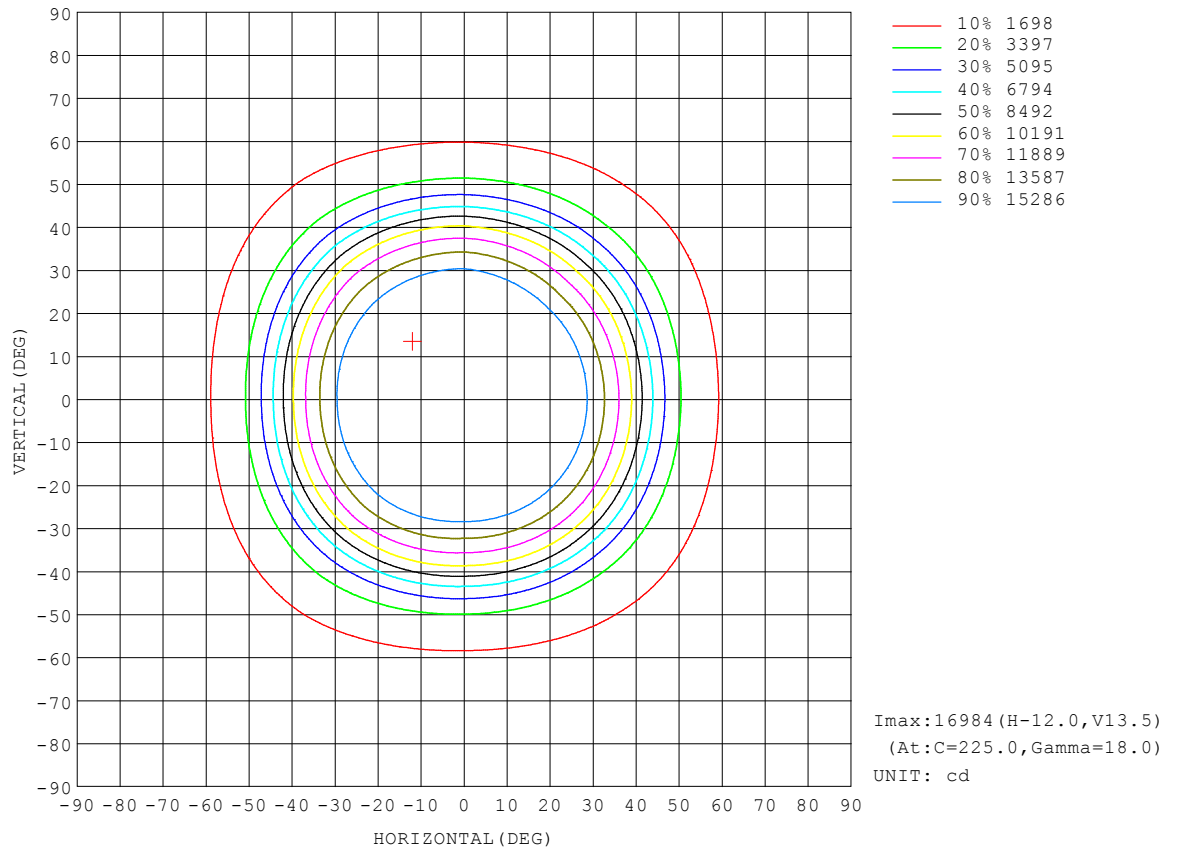
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	58	72	63	58	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	75	88	80	75	86	80	74	69
1.25	94	87	82	93	86	81	91	85	81	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	92	101	96	92	98	93	90	83
2.50	105	100	96	103	98	95	100	96	93	85
3.00	108	103	99	105	101	98	101	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	106	109	106	104	105	103	101	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: 25.1DEG  
 Operators: Marvin Ma  
 Test Date: 2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

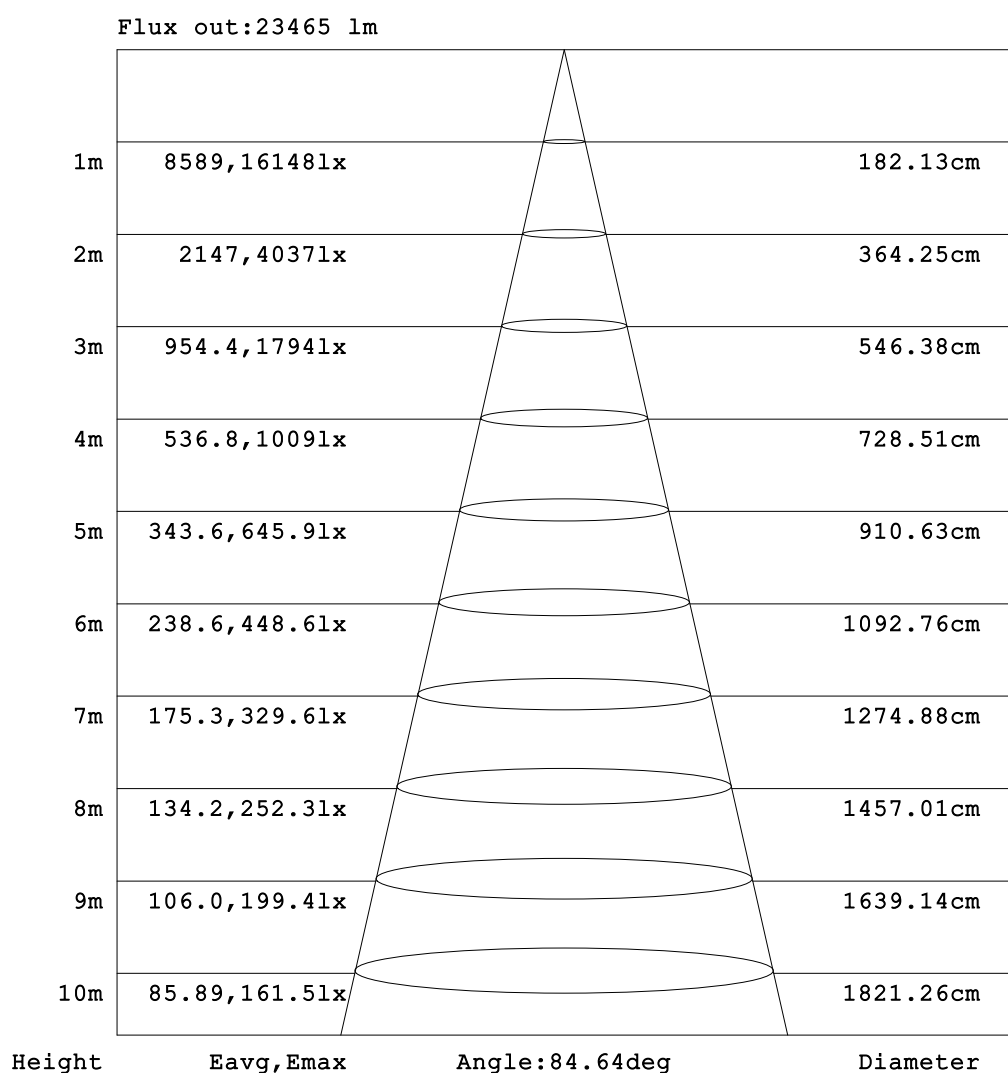


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



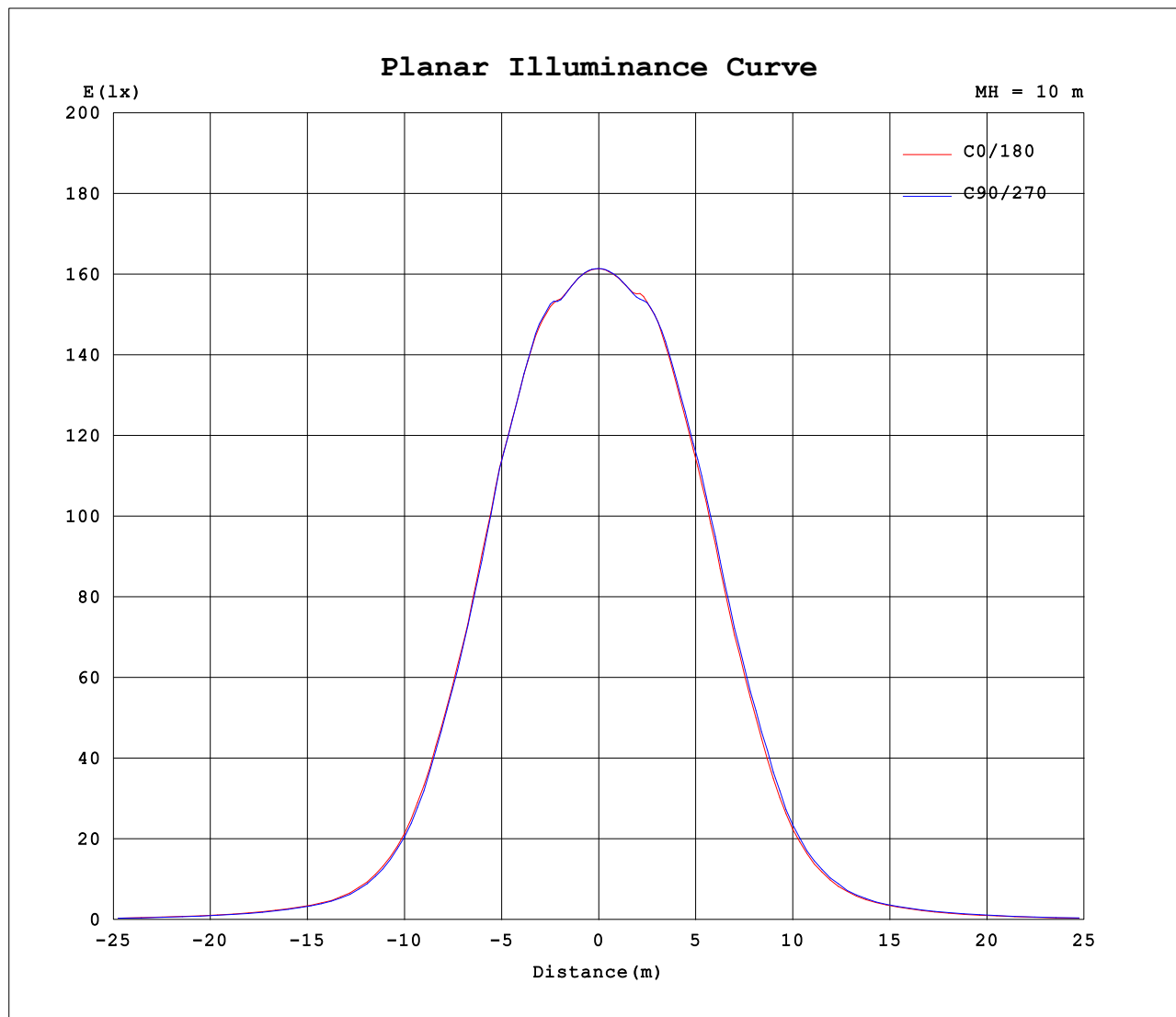
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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: 25.1DEG  
Operators: Marvin Ma  
Test Date: 2022-08-31

☐ 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:120.6V I:1.686A P:202.9W PF:0.9977 Freq:59.98Hz Lamp Flux:30890x1 lm		
NAME: H17XL-RPC-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1614	1614	1615	1615	1614	1614	1615	1615										
5	1616	1616	1616	1615	1615	1614	1616	1617										
10	1621	1621	1620	1622	1628	1625	1625	1626										
15	1669	1673	1675	1678	1682	1679	1683	1675										
20	1670	1668	1671	1675	1678	1690	1688	1670										
25	1612	1610	1609	1620	1620	1645	1639	1613										
30	1480	1475	1466	1509	1512	1539	1540	1470										
35	1240	1236	1228	1280	1283	1329	1315	1232										
40	957	929	932	990	998	1063	1037	938										
45	606	573	581	630	635	699	666	595										
50	353	327	336	371	373	415	390	351										
55	223	212	210	225	226	250	235	219										
60	160	150	150	160	155	171	167	158										
65	108	99.7	101	109	104	116	114	106										
70	58.0	53.2	55.1	60.2	57.9	66.1	64.4	57.2										
75	35.7	34.2	34.1	36.3	35.5	40.2	39.0	35.8										
80	24.4	22.6	23.0	25.0	24.2	26.9	26.3	24.7										
85	15.8	14.7	15.0	16.3	15.7	16.9	16.5	15.4										
90	9.46	8.67	8.99	9.72	9.21	9.31	9.54	9.37										
95	7.33	7.24	7.22	7.25	7.03	7.00	7.07	7.22										
100	7.18	7.28	7.24	7.08	6.93	6.88	6.95	7.08										
105	7.63	7.77	7.83	7.53	7.43	7.42	7.46	7.63										
110	8.60	8.96	8.86	8.71	8.58	8.57	8.42	8.79										
115	10.0	10.2	10.0	9.69	9.72	9.46	9.38	9.87										
120	11.7	12.1	11.8	11.7	10.8	11.0	11.0	12.0										
125	12.2	13.0	11.9	12.5	10.8	11.4	11.1	12.6										
130	11.7	12.4	11.6	11.8	10.9	11.0	11.0	11.5										
135	11.9	12.2	11.9	11.9	11.7	11.6	11.6	11.9										
140	12.6	12.8	12.5	12.5	12.5	12.3	12.4	12.6										
145	13.1	13.1	13.0	12.8	13.0	12.7	13.0	13.0										
150	13.3	13.3	13.3	13.0	13.3	13.0	13.2	13.3										
155	13.6	13.7	13.7	13.4	13.7	13.4	13.4	13.7										
160	14.4	14.4	14.5	14.1	14.4	14.2	14.2	14.3										
165	15.1	15.0	15.2	14.8	15.1	14.9	15.1	14.8										
170	15.3	15.0	15.5	15.0	15.5	15.2	15.4	14.7										
175	15.4	14.9	15.3	14.9	15.5	15.0	15.3	14.8										
180	15.6	14.9	15.5	14.9	15.6	14.9	15.5	14.9										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

□ 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: