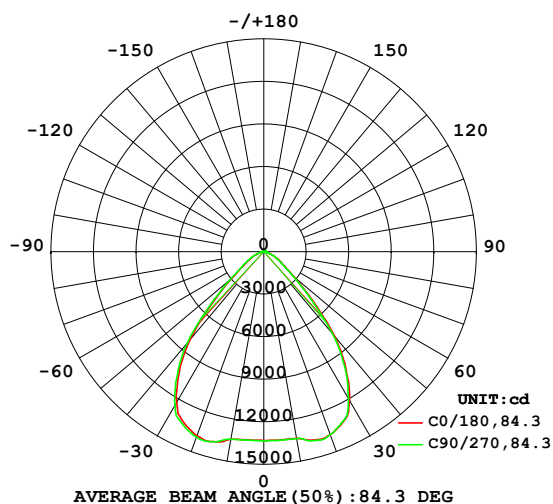


## LUMINAIRE PHOTOMETRIC TEST REPORT

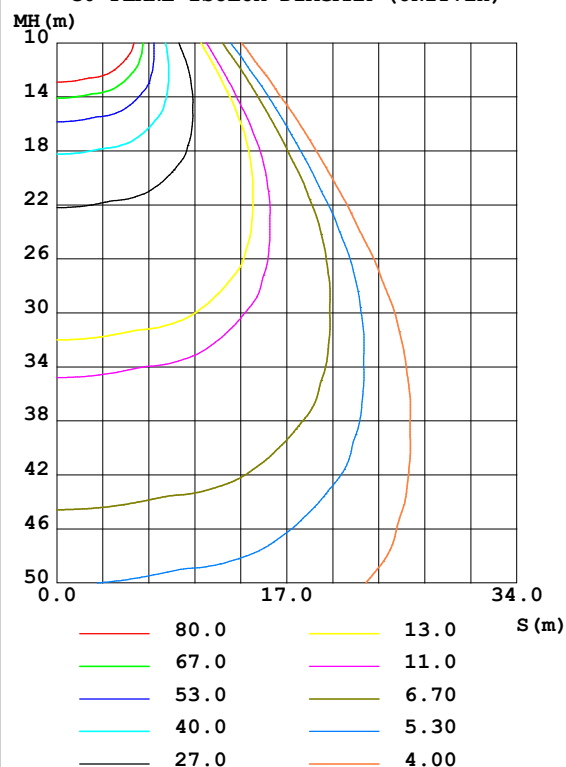
Test:U:120.6V I:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.33 lm/W			
MODEL		I <sub>max</sub> (cd)	14012	S/MH(C0/180)	1.22
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	25188	□ UP,DN(C0-180)	1.1,48.1
NOMINAL FLUX(lm)	25188	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.0,49.8
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	1337	1338	1338	1339	1343	1342	1343	1343	0- 10	1275	1275	5.06,5.06
20	1373	1371	1373	1378	1381	1393	1391	1375	10- 20	3903	5178	20.6,20.6
30	1213	1197	1198	1224	1228	1265	1252	1205	20- 30	6105	11283	44.8,44.8
40	781.4	750.3	757.2	798.0	807.8	869.6	838.6	765.1	30- 40	6385	17668	70.1,70.1
50	283.9	262.7	268.0	297.5	299.2	332.4	314.3	281.0	40- 50	3958	21626	85.9,85.9
60	129.5	121.2	121.0	129.8	124.7	137.6	134.7	127.4	50- 60	1703	23329	92.6,92.6
70	47.03	43.27	44.86	48.96	46.91	53.51	52.42	46.49	60- 70	858.6	24188	96,96
80	19.66	18.29	18.62	20.21	19.54	21.69	21.23	19.98	70- 80	324.4	24512	97.3,97.3
90	7.653	7.010	7.288	7.876	7.447	7.531	7.722	7.602	80- 90	142.0	24654	97.9,97.9
100	5.793	5.874	5.854	5.718	5.588	5.552	5.602	5.713	90-100	66.07	24720	98.1,98.1
110	6.935	7.236	7.155	7.031	6.921	6.918	6.787	7.091	100-110	65.48	24785	98.4,98.4
120	9.465	9.825	9.583	9.478	8.695	8.852	8.862	9.699	110-120	80.32	24866	98.7,98.7
130	9.491	9.997	9.371	9.495	8.807	8.897	8.920	9.287	120-130	85.49	24951	99.1,99.1
140	10.20	10.37	10.12	10.08	10.10	9.952	10.04	10.19	130-140	74.30	25026	99.4,99.4
150	10.73	10.73	10.74	10.51	10.74	10.52	10.67	10.78	140-150	65.63	25091	99.6,99.6
160	11.65	11.68	11.75	11.40	11.66	11.48	11.53	11.66	150-160	51.02	25142	99.8,99.8
170	12.42	12.17	12.53	12.13	12.51	12.29	12.45	11.92	160-170	34.10	25176	100,100
180	12.66	12.07	12.56	12.08	12.66	12.07	12.56	12.07	170-180	11.73	25188	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 20054 lm

%lum = 79.6%

%lamp = 79.6%

Conical surface Flux(120deg): 23329 lm

%lum = 92.6%

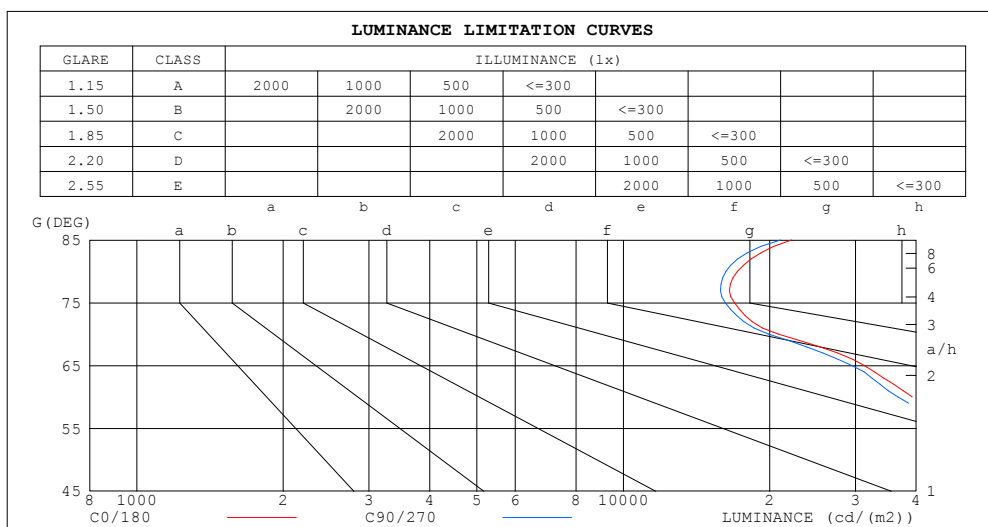
%lamp = 92.6%

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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22179	21044
80	17151	16251
75	16934	16204
70	20834	19872
65	31250	29468
60	39231	36667
55	47536	44592
50	66912	63169
45	104565	99516

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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-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	.226 .129 .041	.219 .125 .040	.205 .118 .038	.192 .111 .036	.180 .104 .034	
2.0	.218 .119 .037	.211 .116 .036	.199 .111 .034	.188 .106 .033	.178 .101 .032	
3.0	.207 .110 .033	.201 .108 .032	.191 .103 .031	.181 .099 .030	.172 .095 .029	
4.0	.196 .102 .030	.191 .100 .030	.182 .096 .029	.173 .093 .028	.165 .090 .027	
5.0	.185 .095 .027	.181 .093 .027	.173 .090 .026	.165 .087 .026	.158 .084 .025	
6.0	.176 .088 .025	.172 .087 .025	.164 .084 .024	.157 .082 .024	.151 .079 .024	
7.0	.166 .082 .023	.163 .081 .023	.156 .079 .023	.150 .077 .022	.144 .075 .022	
8.0	.158 .077 .022	.155 .076 .022	.149 .074 .021	.143 .072 .021	.138 .071 .021	
9.0	.150 .073 .020	.147 .072 .020	.142 .070 .020	.137 .068 .020	.132 .067 .019	
10.0	.143 .068 .019	.140 .068 .019	.135 .066 .019	.131 .065 .018	.126 .063 .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 .130 .100	.145 .112 .086	.099 .078 .061	.057 .046 .036	.018 .015 .012	
4.0	.160 .116 .083	.138 .101 .072	.095 .070 .051	.055 .041 .030	.018 .013 .010	
5.0	.153 .105 .070	.131 .091 .061	.090 .064 .043	.052 .037 .026	.017 .012 .008	
6.0	.146 .097 .061	.126 .084 .053	.087 .059 .038	.050 .034 .022	.016 .011 .007	
7.0	.140 .090 .054	.120 .078 .047	.083 .054 .034	.048 .032 .020	.016 .011 .007	
8.0	.134 .084 .049	.116 .073 .043	.080 .051 .030	.047 .030 .018	.015 .010 .006	
9.0	.129 .079 .045	.111 .068 .039	.077 .048 .028	.045 .028 .017	.015 .009 .005	
10.0	.124 .075 .041	.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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm										
NAME: H17XL-RPC-150W-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	25.5	26.7	25.8	26.9	27.1	25.3	26.5	25.6	26.7	26.9
3H	25.6	26.7	25.9	27.0	27.2	25.4	26.5	25.8	26.8	27.0
4H	25.6	26.7	26.0	26.9	27.2	25.5	26.5	25.8	26.8	27.0
6H	25.6	26.6	26.0	26.9	27.2	25.5	26.4	25.8	26.7	27.0
8H	25.7	26.6	26.0	26.9	27.2	25.5	26.4	25.8	26.7	27.0
12H	25.7	26.6	26.0	26.9	27.2	25.5	26.4	25.8	26.7	27.0
4H 2H	25.4	26.5	25.8	26.8	27.0	25.3	26.3	25.6	26.6	26.9
3H	25.7	26.6	26.0	26.9	27.2	25.5	26.4	25.9	26.7	27.0
4H	25.7	26.5	26.1	26.9	27.2	25.6	26.4	25.9	26.7	27.1
6H	25.8	26.5	26.2	26.9	27.3	25.6	26.3	26.0	26.7	27.1
8H	25.8	26.5	26.3	26.9	27.3	25.7	26.3	26.1	26.7	27.1
12H	25.9	26.5	26.3	26.9	27.3	25.7	26.3	26.2	26.7	27.2
8H 4H	25.7	26.3	26.1	26.7	27.1	25.5	26.2	25.9	26.5	27.0
6H	25.8	26.3	26.3	26.8	27.2	25.6	26.2	26.1	26.6	27.1
8H	25.9	26.4	26.4	26.8	27.3	25.7	26.2	26.2	26.6	27.1
12H	26.0	26.4	26.5	26.9	27.4	25.8	26.2	26.3	26.7	27.2
12H 4H	25.6	26.2	26.1	26.6	27.1	25.5	26.1	25.9	26.5	26.9
6H	25.8	26.3	26.3	26.7	27.2	25.6	26.1	26.1	26.5	27.0
8H	25.9	26.3	26.4	26.8	27.3	25.7	26.1	26.2	26.6	27.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.2					+ 1.4 / - 2.3				
1.5H	+ 2.1 / - 2.0					+ 2.2 / - 2.0				
2.0H	+ 3.0 / - 1.6					+ 2.9 / - 1.6				

CIE Pub.117, 25188 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.2$ )

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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

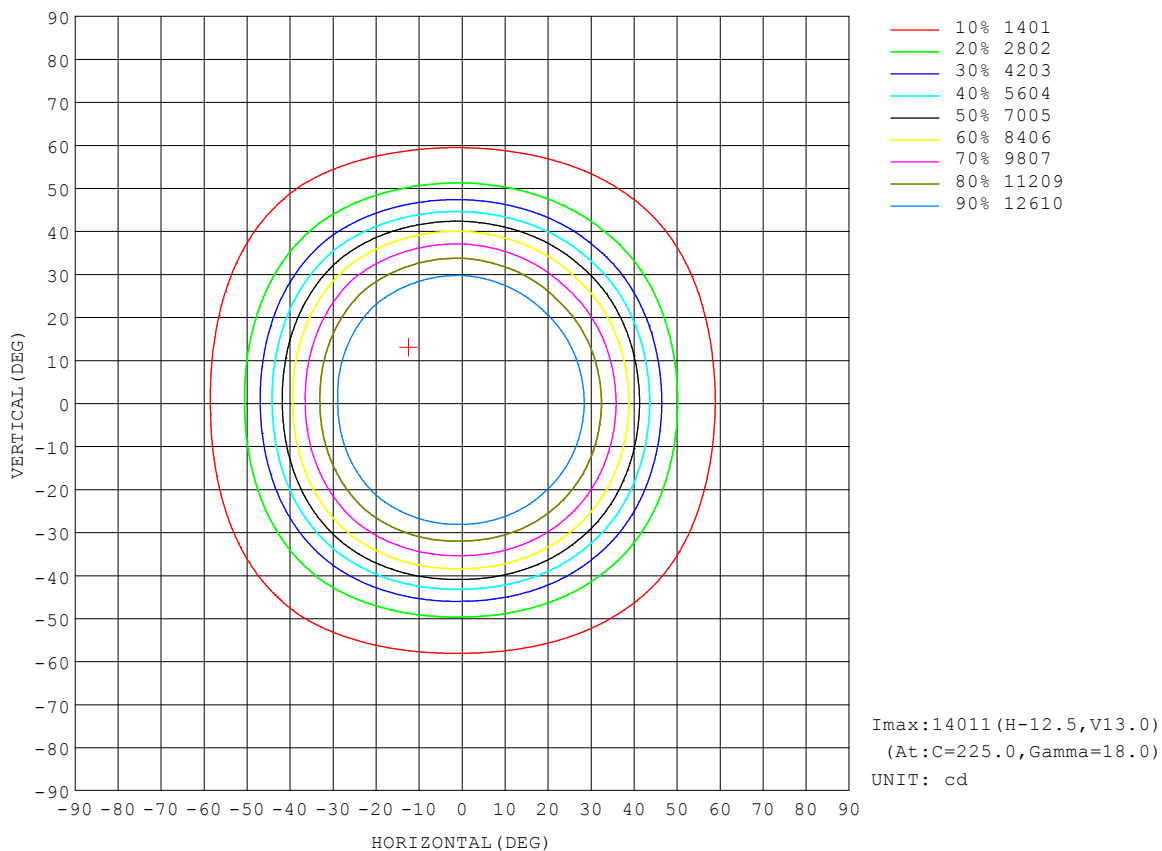
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	76	88	80	75	86	81	75	69
1.25	94	87	82	93	86	82	91	85	81	75
1.50	98	91	87	97	91	86	94	89	85	79
2.00	103	97	93	101	96	92	98	93	90	83
2.50	105	100	96	103	99	95	100	96	93	85
3.00	108	103	99	105	101	98	102	98	95	88
4.00	110	106	103	108	104	102	104	101	99	90
5.00	112	109	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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

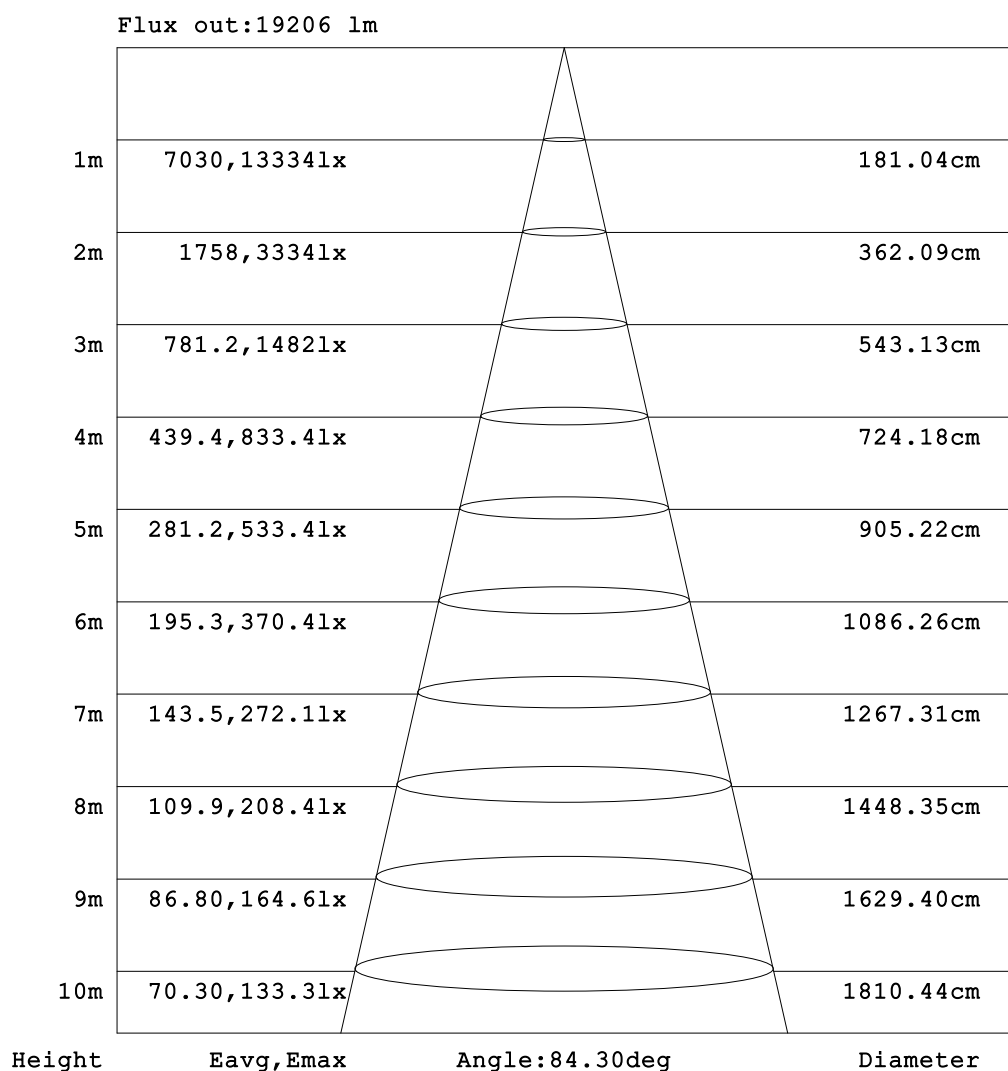


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm		
NAME: H17XL-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



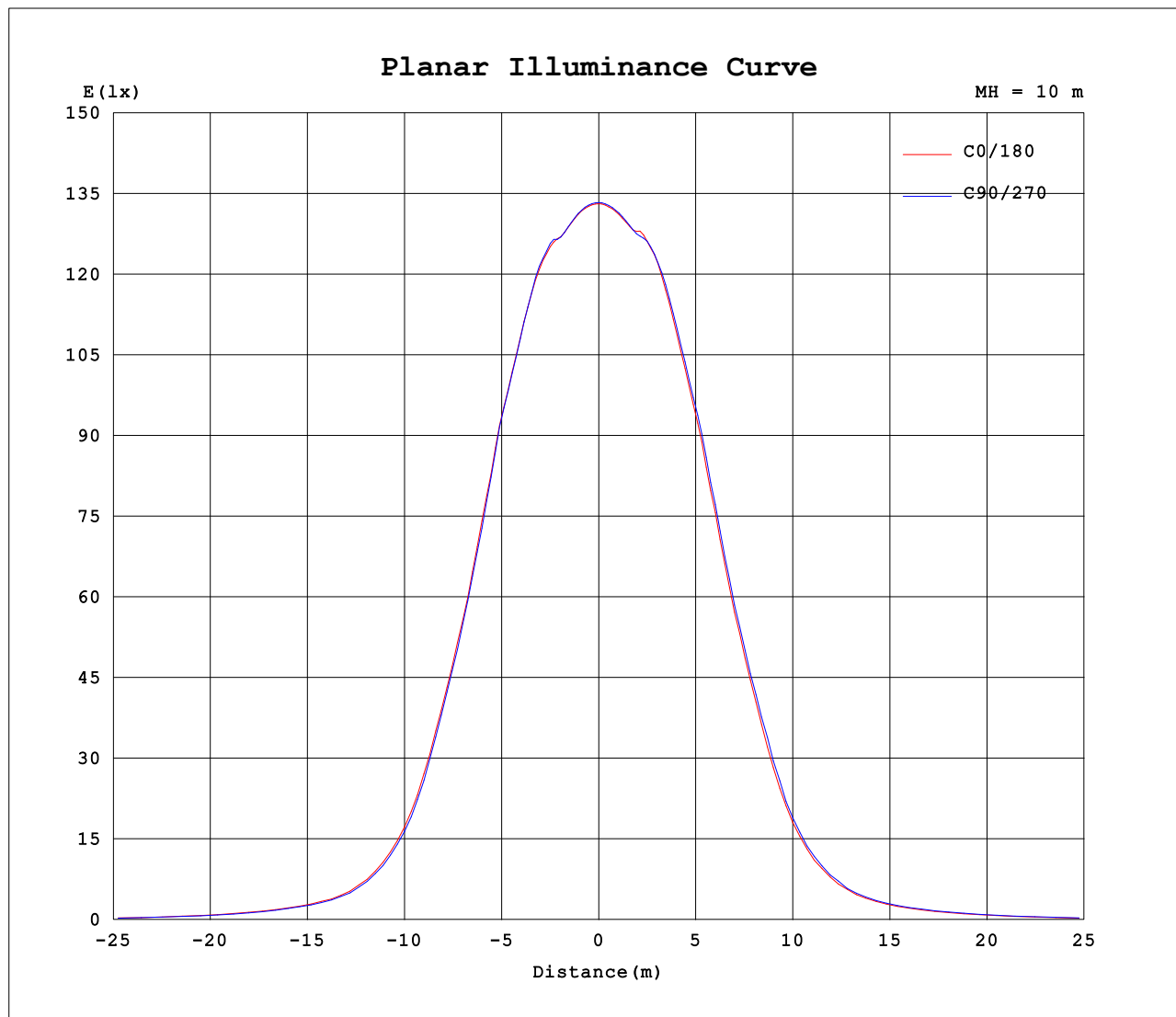
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.297A P:156.1W PF:0.9979 Freq:59.97Hz Lamp Flux:25188x1 lm								
NAME: H17XL-RPC-150W-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	1331	1332	1333	1333	1331	1332	1333	1333										
5	1333	1334	1334	1334	1332	1333	1334	1336										
10	1337	1338	1338	1339	1343	1342	1343	1343										
15	1375	1378	1380	1383	1386	1386	1389	1381										
20	1373	1371	1373	1378	1381	1393	1391	1375										
25	1324	1322	1321	1330	1332	1355	1348	1325										
30	1213	1197	1198	1224	1228	1265	1252	1205										
35	1014	1000	1001	1034	1040	1089	1065	1007										
40	781	750	757	798	808	870	839	765										
45	488	461	464	506	512	567	537	478										
50	284	263	268	298	299	332	314	281										
55	180	172	169	181	182	200	189	176										
60	129	121	121	130	125	138	135	127										
65	87.2	81.0	82.2	88.7	84.3	93.5	92.5	85.8										
70	47.0	43.3	44.9	49.0	46.9	53.5	52.4	46.5										
75	28.9	27.7	27.7	29.5	28.7	32.4	31.6	29.0										
80	19.7	18.3	18.6	20.2	19.5	21.7	21.2	20.0										
85	12.8	11.9	12.1	13.2	12.7	13.6	13.3	12.4										
90	7.65	7.01	7.29	7.88	7.45	7.53	7.72	7.60										
95	5.91	5.85	5.83	5.86	5.68	5.65	5.70	5.83										
100	5.79	5.87	5.85	5.72	5.59	5.55	5.60	5.71										
105	6.15	6.28	6.32	6.08	5.99	5.98	6.01	6.15										
110	6.94	7.24	7.16	7.03	6.92	6.92	6.79	7.09										
115	8.10	8.28	8.11	7.83	7.84	7.64	7.57	7.96										
120	9.46	9.82	9.58	9.48	8.69	8.85	8.86	9.70										
125	9.85	10.5	9.59	10.1	8.73	9.23	8.92	10.2										
130	9.49	10.00	9.37	9.50	8.81	8.90	8.92	9.29										
135	9.63	9.84	9.60	9.57	9.49	9.36	9.37	9.61										
140	10.2	10.4	10.1	10.1	10.1	9.95	10.0	10.2										
145	10.6	10.6	10.5	10.4	10.5	10.3	10.5	10.5										
150	10.7	10.7	10.7	10.5	10.7	10.5	10.7	10.8										
155	11.0	11.1	11.1	10.8	11.1	10.9	10.9	11.1										
160	11.7	11.7	11.7	11.4	11.7	11.5	11.5	11.7										
165	12.2	12.1	12.3	11.9	12.2	12.1	12.2	12.1										
170	12.4	12.2	12.5	12.1	12.5	12.3	12.5	11.9										
175	12.4	12.1	12.4	12.1	12.5	12.1	12.4	12.0										
180	12.7	12.1	12.6	12.1	12.7	12.1	12.6	12.1										

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: