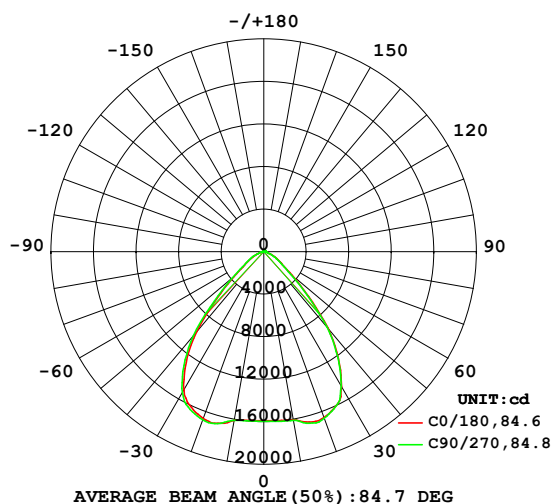


## LUMINAIRE PHOTOMETRIC TEST REPORT

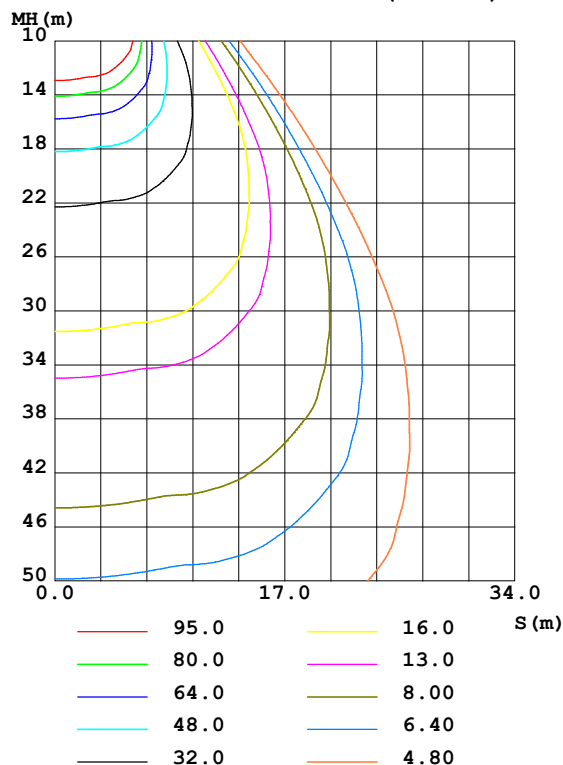
Test:U:120.6V I:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.71 lm/W			
MODEL		I <sub>max</sub> (cd)	16897	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)	30622	□ UP,DN(C0-180)	1.1,48.0
NOMINAL FLUX(lm)	30622.1	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	1606	1609	1611	1613	1610	1607	1611	1616	0- 10	1529	1529	4.99,4.99
20	1660	1660	1667	1673	1671	1681	1683	1667	10- 20	4712	6240	20.4,20.4
30	1463	1463	1458	1504	1503	1534	1533	1463	20- 30	7406	13646	44.6,44.6
40	940.7	914.3	928.5	988.6	986.8	1049	1033	936.4	30- 40	7776	21423	70,70
50	350.2	324.4	333.7	366.2	370.3	408.1	391.5	347.6	40- 50	4851	26274	85.8,85.8
60	156.2	146.5	147.8	158.0	153.0	170.4	165.2	156.5	50- 60	2086	28360	92.6,92.6
70	56.05	51.62	53.91	58.88	56.57	65.46	63.39	55.97	60- 70	1045	29405	96,96
80	23.68	22.00	22.58	24.51	23.81	26.68	25.87	24.31	70- 80	392.5	29798	97.3,97.3
90	9.199	8.453	8.827	9.533	9.036	9.169	9.356	9.211	80- 90	172.2	29970	97.9,97.9
100	7.050	7.140	7.117	6.950	6.798	6.771	6.827	6.949	90-100	80.24	30050	98.1,98.1
110	8.457	8.774	8.705	8.533	8.475	8.495	8.333	8.674	100-110	79.80	30130	98.4,98.4
120	11.55	12.00	11.67	11.64	10.61	10.84	10.86	11.88	110-120	98.09	30228	98.7,98.7
130	11.67	12.22	11.45	11.62	10.76	10.90	10.92	11.39	120-130	104.5	30332	99.1,99.1
140	12.47	12.67	12.37	12.35	12.35	12.20	12.31	12.46	130-140	90.89	30423	99.4,99.4
150	13.11	13.11	13.13	12.87	13.11	12.88	13.05	13.16	140-150	80.26	30504	99.6,99.6
160	14.24	14.30	14.37	13.97	14.24	14.06	14.12	14.23	150-160	62.39	30566	99.8,99.8
170	15.18	14.91	15.36	14.87	15.31	15.06	15.26	14.59	160-170	41.74	30608	100,100
180	15.50	14.77	15.39	14.80	15.48	14.79	15.39	14.80	170-180	14.37	30622	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 24343 lm

%lum = 79.5%

%lamp = 79.5%

Conical surface Flux(120deg): 28360 lm

%lum = 92.6%

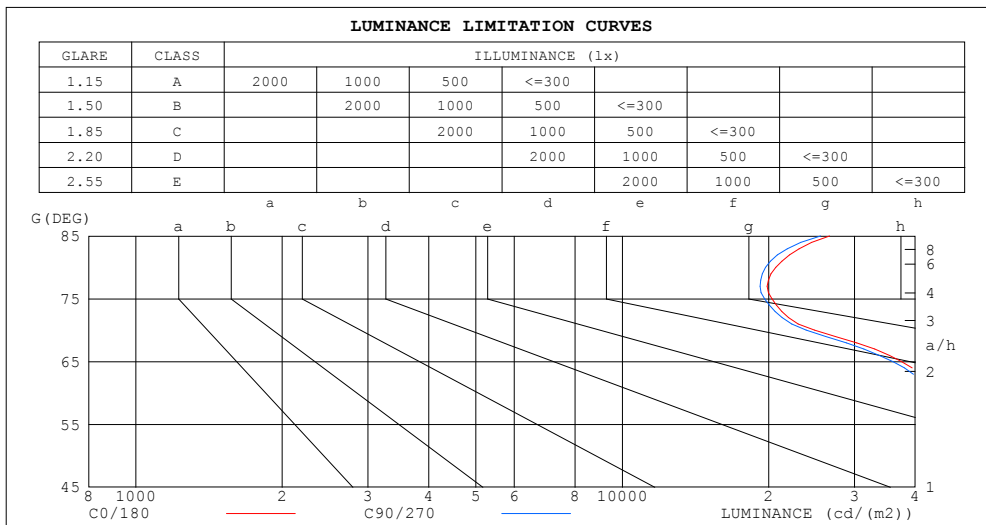
%lamp = 92.6%

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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	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	26688	25551
80	20663	19701
75	20309	19613
70	24830	23882
65	37437	35971
60	47334	44799
55	57128	54737
50	82555	78660
45	127599	123255

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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	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	.219 .125 .040	.205 .118 .038	.192 .111 .036	.180 .105 .034	
2.0	.218 .120 .037	.212 .117 .036	.200 .111 .034	.188 .106 .033	.178 .101 .032	
3.0	.207 .110 .033	.202 .108 .033	.191 .104 .031	.181 .099 .030	.172 .095 .029	
4.0	.196 .102 .030	.191 .100 .030	.182 .097 .029	.173 .093 .028	.165 .090 .027	
5.0	.186 .095 .027	.181 .093 .027	.173 .090 .027	.165 .087 .026	.158 .084 .025	
6.0	.176 .088 .025	.172 .087 .025	.164 .084 .025	.158 .082 .024	.151 .079 .024	
7.0	.167 .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 .073 .021	.138 .071 .021	
9.0	.150 .073 .020	.147 .072 .020	.142 .070 .020	.137 .069 .020	.132 .067 .019	
10.0	.143 .069 .019	.140 .068 .019	.135 .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 .130 .100	.145 .113 .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 .106 .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 .035 .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 .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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm										
NAME: H17XL-RPC-200W-4K					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	26.1	27.3	26.4	27.6	27.8	26.0	27.2	26.3	27.5	27.7
3H	26.3	27.4	26.6	27.6	27.9	26.2	27.3	26.5	27.5	27.8
4H	26.3	27.3	26.6	27.6	27.9	26.2	27.2	26.5	27.5	27.7
6H	26.3	27.3	26.6	27.6	27.9	26.2	27.1	26.5	27.4	27.7
8H	26.3	27.2	26.7	27.5	27.8	26.2	27.1	26.5	27.4	27.7
12H	26.3	27.2	26.7	27.5	27.8	26.2	27.1	26.5	27.4	27.7
4H 2H	26.1	27.1	26.4	27.4	27.7	26.0	27.0	26.3	27.3	27.6
3H	26.3	27.2	26.7	27.5	27.9	26.2	27.1	26.6	27.4	27.7
4H	26.4	27.2	26.8	27.5	27.9	26.3	27.1	26.7	27.4	27.8
6H	26.4	27.1	26.9	27.5	27.9	26.3	27.0	26.7	27.4	27.8
8H	26.5	27.1	26.9	27.5	27.9	26.4	27.0	26.8	27.4	27.8
12H	26.5	27.1	27.0	27.5	28.0	26.4	27.0	26.9	27.4	27.9
8H 4H	26.3	27.0	26.7	27.4	27.8	26.2	26.9	26.6	27.2	27.7
6H	26.4	27.0	26.9	27.4	27.9	26.3	26.9	26.8	27.3	27.8
8H	26.5	27.0	27.0	27.5	27.9	26.4	26.9	26.9	27.3	27.8
12H	26.6	27.0	27.1	27.5	28.0	26.5	26.9	27.0	27.4	27.9
12H 4H	26.3	26.9	26.7	27.3	27.7	26.2	26.8	26.6	27.2	27.6
6H	26.4	26.9	26.9	27.4	27.8	26.3	26.8	26.8	27.2	27.7
8H	26.5	26.9	27.0	27.4	27.9	26.4	26.8	26.9	27.3	27.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.3					+ 1.5 / - 2.4				
1.5H	+ 2.1 / - 2.0					+ 2.2 / - 2.0				
2.0H	+ 3.1 / - 1.7					+ 3.0 / - 1.6				

CIE Pub.117, 30622 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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

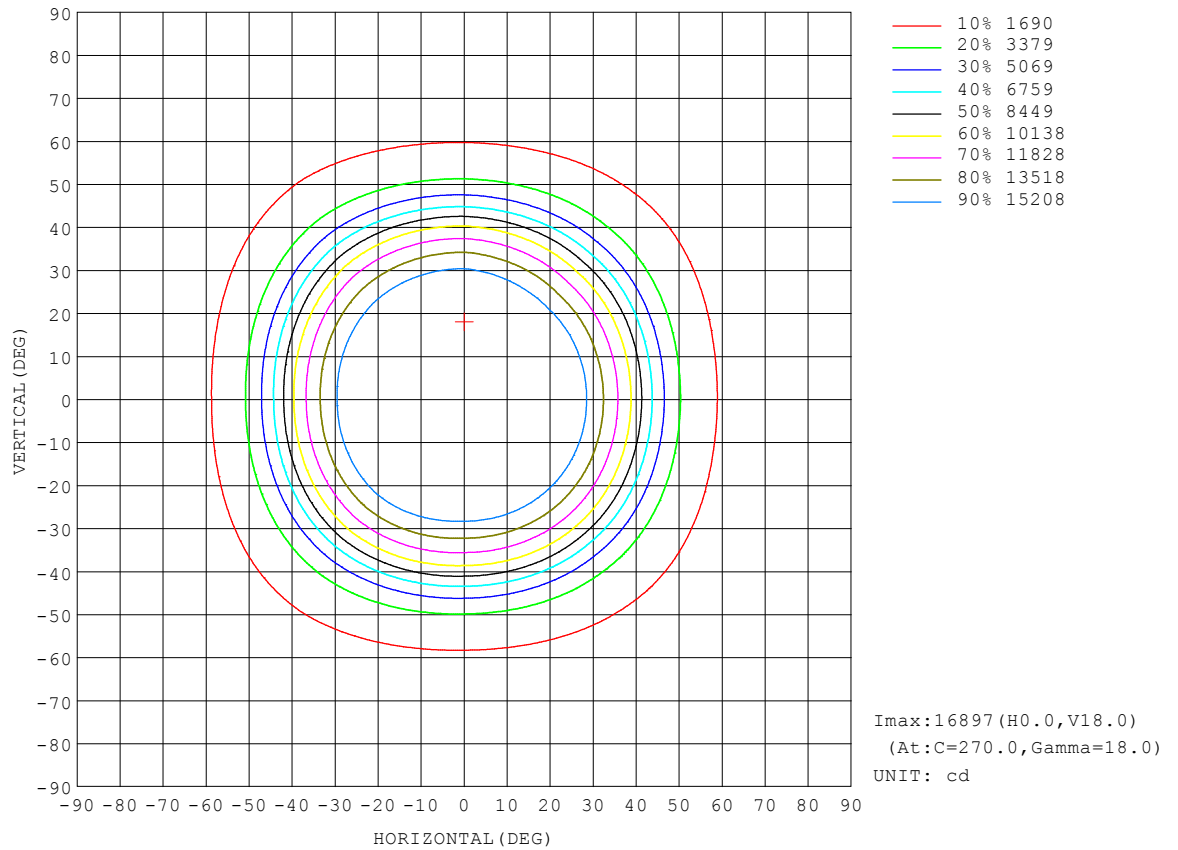
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	58	72	64	58	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	76	88	80	75	86	80	75	69
1.25	94	87	82	93	86	82	91	85	81	75
1.50	98	91	87	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	102	98	95	88
4.00	110	106	103	108	104	102	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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

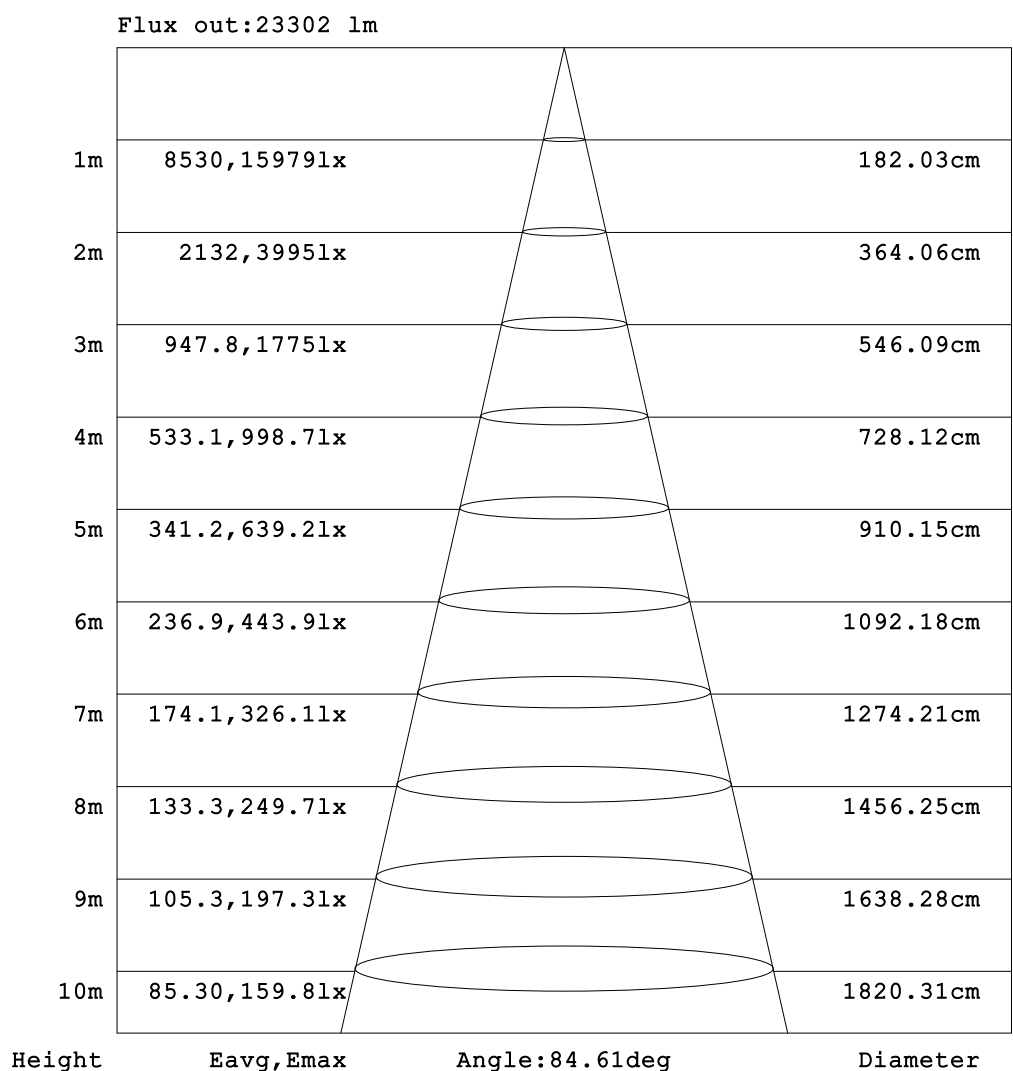


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



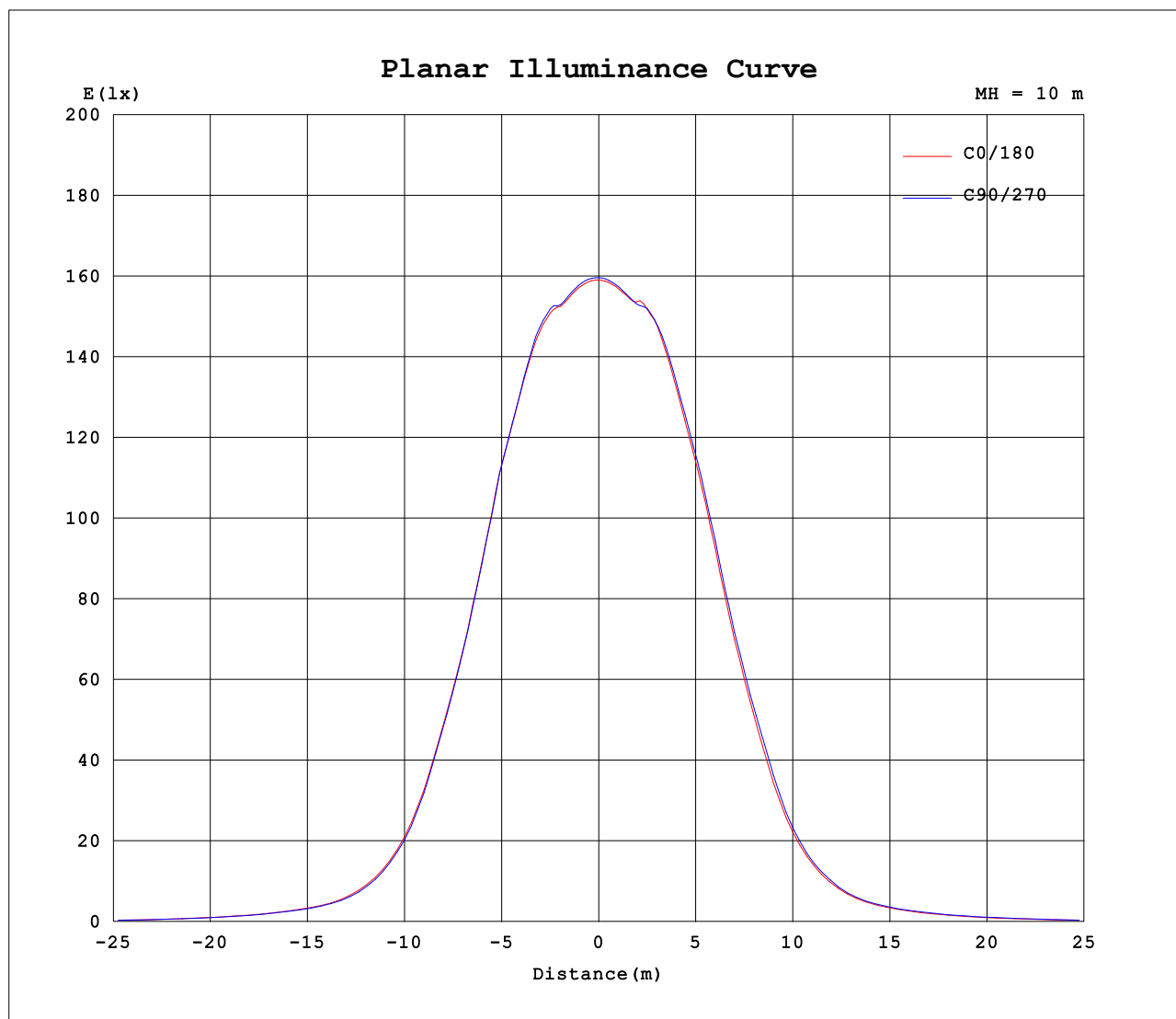
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.613A P:194.2W PF:0.9978 Freq:59.98Hz Lamp Flux:30622.1x1 lm		
NAME: H17XL-RPC-200W-4K	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	1590	1593	1596	1598	1590	1593	1596	1598										
5	1595	1598	1601	1601	1593	1593	1597	1602										
10	1606	1609	1611	1613	1610	1607	1611	1616										
15	1658	1662	1669	1673	1669	1668	1673	1669										
20	1660	1660	1667	1673	1671	1681	1683	1667										
25	1602	1600	1604	1616	1613	1640	1637	1607										
30	1463	1463	1458	1504	1503	1534	1533	1463										
35	1223	1220	1217	1270	1272	1320	1306	1220										
40	941	914	929	989	987	1049	1033	936										
45	595	562	575	620	629	695	659	588										
50	350	324	334	366	370	408	391	348										
55	216	207	207	222	223	246	234	217										
60	156	146	148	158	153	170	165	157										
65	104	97.4	100	108	103	115	113	105										
70	56.0	51.6	53.9	58.9	56.6	65.5	63.4	56.0										
75	34.7	33.3	33.5	35.6	34.9	39.9	38.4	35.2										
80	23.7	22.0	22.6	24.5	23.8	26.7	25.9	24.3										
85	15.4	14.3	14.7	16.0	15.4	16.7	16.2	15.1										
90	9.20	8.45	8.83	9.53	9.04	9.17	9.36	9.21										
95	7.16	7.08	7.09	7.11	6.90	6.88	6.93	7.08										
100	7.05	7.14	7.12	6.95	6.80	6.77	6.83	6.95										
105	7.49	7.62	7.68	7.38	7.31	7.31	7.36	7.49										
110	8.46	8.77	8.71	8.53	8.48	8.49	8.33	8.67										
115	9.83	10.1	9.92	9.60	9.60	9.31	9.24	9.74										
120	11.5	12.0	11.7	11.6	10.6	10.8	10.9	11.9										
125	12.0	12.9	11.8	12.3	10.8	11.4	11.0	12.4										
130	11.7	12.2	11.4	11.6	10.8	10.9	10.9	11.4										
135	11.8	12.0	11.7	11.7	11.6	11.5	11.5	11.8										
140	12.5	12.7	12.4	12.3	12.4	12.2	12.3	12.5										
145	12.9	12.9	12.9	12.7	12.9	12.6	12.8	12.9										
150	13.1	13.1	13.1	12.9	13.1	12.9	13.1	13.2										
155	13.5	13.5	13.6	13.2	13.5	13.3	13.3	13.6										
160	14.2	14.3	14.4	14.0	14.2	14.1	14.1	14.2										
165	14.9	14.9	15.1	14.6	14.9	14.8	14.9	14.7										
170	15.2	14.9	15.4	14.9	15.3	15.1	15.3	14.6										
175	15.2	14.8	15.2	14.9	15.3	14.9	15.2	14.7										
180	15.5	14.8	15.4	14.8	15.5	14.8	15.4	14.8										

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: