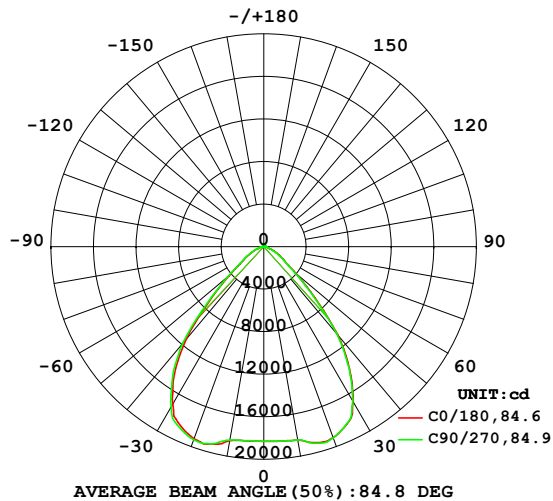


## LUMINAIRE PHOTOMETRIC TEST REPORT

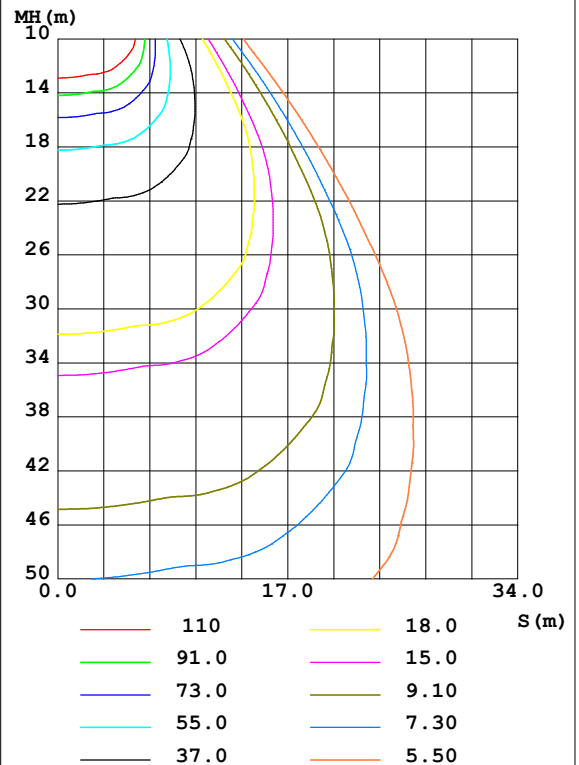
Test:U:120.6V I:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.63 lm/W			
MODEL		I <sub>max</sub> (cd)	19405	S/MH(C0/180)	1.23
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	35152	□ UP,DN(C0-180)	1.1,48.1
NOMINAL FLUX(lm)	35151.6	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	1847	1848	1847	1846	1852	1846	1846	1850	0- 10	1754	1754	4.99,4.99
20	1909	1907	1913	1918	1922	1932	1931	1910	10- 20	5408	7162	20.4,20.4
30	1683	1663	1675	1708	1711	1761	1740	1678	20- 30	8497	15660	44.5,44.5
40	1082	1051	1068	1136	1135	1204	1185	1076	30- 40	8920	24579	69.9,69.9
50	402.9	374.1	384.5	421.4	426.8	468.3	449.3	399.6	40- 50	5574	30154	85.8,85.8
60	179.7	169.5	170.0	182.5	177.4	196.2	190.8	179.4	50- 60	2400	32554	92.6,92.6
70	64.35	59.35	61.89	67.45	65.10	76.50	72.47	64.01	60- 70	1201	33754	96,96
80	27.22	25.30	25.95	28.12	27.40	30.64	29.67	27.85	70- 80	450.7	34205	97.3,97.3
90	10.57	9.722	10.13	10.93	10.39	10.53	10.72	10.55	80- 90	197.7	34403	97.9,97.9
100	8.106	8.199	8.165	7.974	7.813	7.780	7.843	7.974	90-100	92.13	34495	98.1,98.1
110	9.719	10.06	9.993	9.768	9.719	9.764	9.558	9.959	100-110	91.59	34587	98.4,98.4
120	13.28	13.77	13.39	13.33	12.20	12.45	12.44	13.64	110-120	112.6	34699	98.7,98.7
130	13.42	14.02	13.13	13.31	12.36	12.52	12.54	13.07	120-130	120.0	34819	99.1,99.1
140	14.32	14.54	14.18	14.15	14.20	14.02	14.08	14.33	130-140	104.3	34923	99.4,99.4
150	15.06	15.04	15.05	14.73	15.08	14.80	15.00	15.13	140-150	92.12	35016	99.6,99.6
160	16.35	16.41	16.47	16.02	16.37	16.16	16.23	16.34	150-160	71.62	35087	99.8,99.8
170	17.47	17.12	17.59	17.04	17.62	17.28	17.51	16.72	160-170	47.89	35135	100,100
180	17.79	16.95	17.63	16.99	17.79	16.95	17.64	16.96	170-180	16.48	35152	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 27933 lm

%lum = 79.5%

%lamp = 79.5%

Conical surface Flux(120deg): 32554 lm

%lum = 92.6%

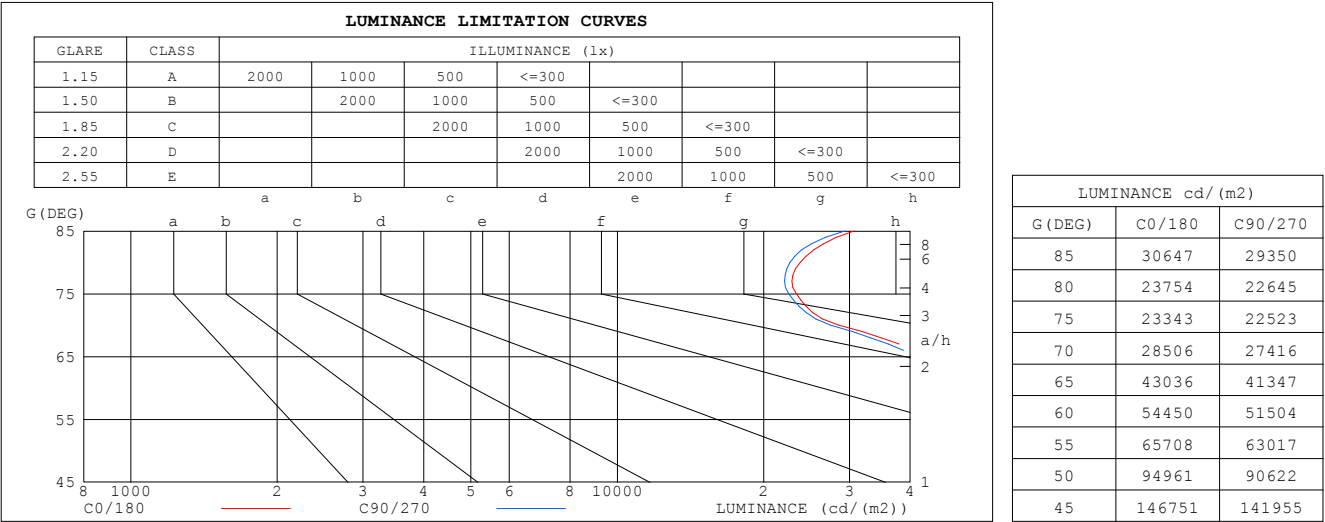
%lamp = 92.6%

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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-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:

## WEC AND CCEC

Test:U:120.6V I:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-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 .030	
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	.165 .084 .025	.158 .082 .024	.151 .080 .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 .055 .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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm										
NAME: H17XL-RPC-240W-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	26.6	27.8	26.9	28.1	28.3	26.5	27.7	26.8	28.0	28.2
3H	26.8	27.9	27.1	28.1	28.4	26.7	27.8	27.0	28.0	28.3
4H	26.8	27.8	27.1	28.1	28.4	26.7	27.7	27.0	28.0	28.2
6H	26.8	27.8	27.1	28.0	28.4	26.7	27.6	27.0	27.9	28.2
8H	26.8	27.7	27.2	28.0	28.3	26.7	27.6	27.0	27.9	28.2
12H	26.8	27.7	27.2	28.0	28.3	26.7	27.6	27.0	27.9	28.2
4H 2H	26.6	27.6	26.9	27.9	28.2	26.5	27.5	26.8	27.8	28.1
3H	26.8	27.7	27.2	28.0	28.4	26.7	27.6	27.1	27.9	28.2
4H	26.9	27.7	27.3	28.0	28.4	26.8	27.6	27.1	27.9	28.3
6H	26.9	27.6	27.4	28.0	28.4	26.8	27.5	27.2	27.9	28.3
8H	27.0	27.6	27.4	28.0	28.4	26.8	27.5	27.3	27.9	28.3
12H	27.0	27.6	27.5	28.0	28.5	26.9	27.5	27.3	27.9	28.3
8H 4H	26.8	27.5	27.2	27.9	28.3	26.7	27.4	27.1	27.7	28.2
6H	26.9	27.5	27.4	27.9	28.4	26.8	27.4	27.3	27.8	28.3
8H	27.0	27.5	27.5	27.9	28.4	26.9	27.4	27.4	27.8	28.3
12H	27.1	27.5	27.6	28.0	28.5	27.0	27.4	27.5	27.9	28.4
12H 4H	26.8	27.4	27.2	27.8	28.2	26.7	27.3	27.1	27.7	28.1
6H	26.9	27.4	27.4	27.8	28.3	26.8	27.3	27.3	27.7	28.2
8H	27.0	27.4	27.5	27.9	28.4	26.9	27.3	27.4	27.8	28.3
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, 35152 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.4$ )

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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

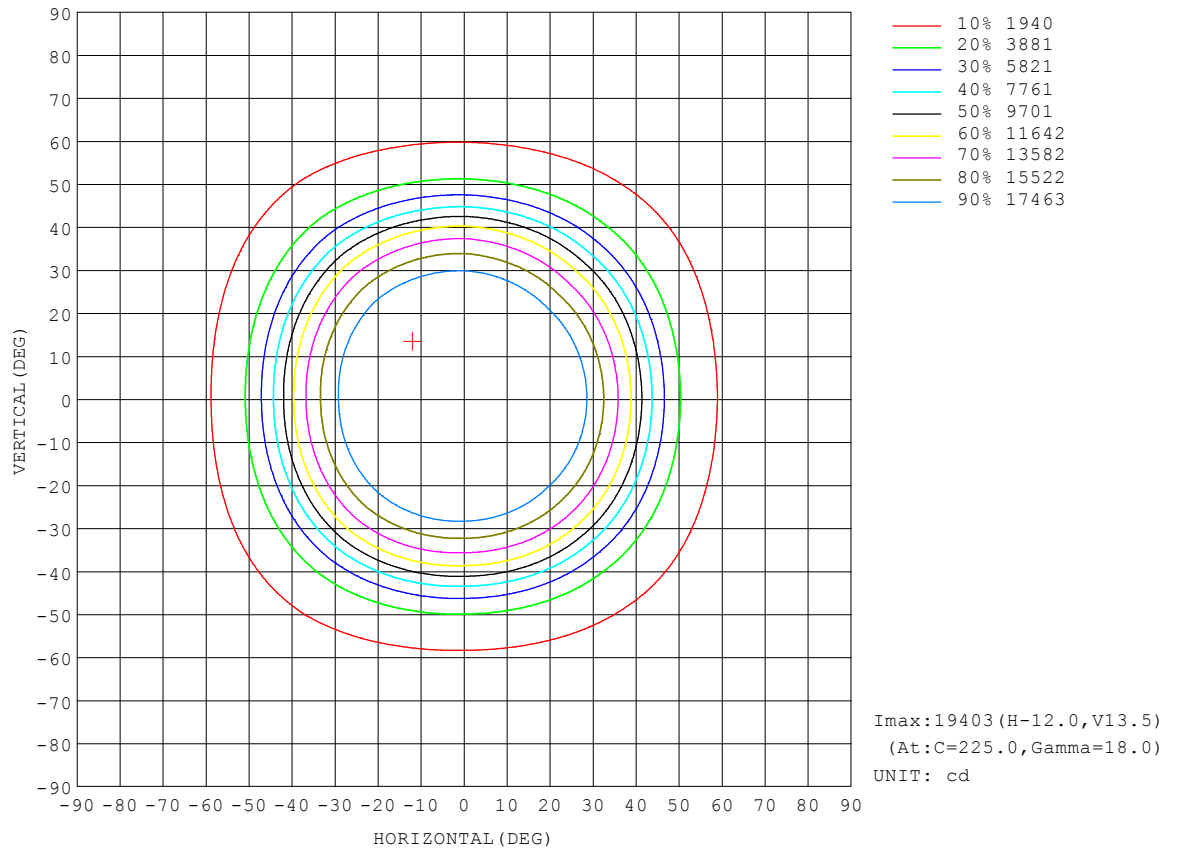
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	58	72	63	58	71	63	58	53
0.80	82	73	68	81	73	68	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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

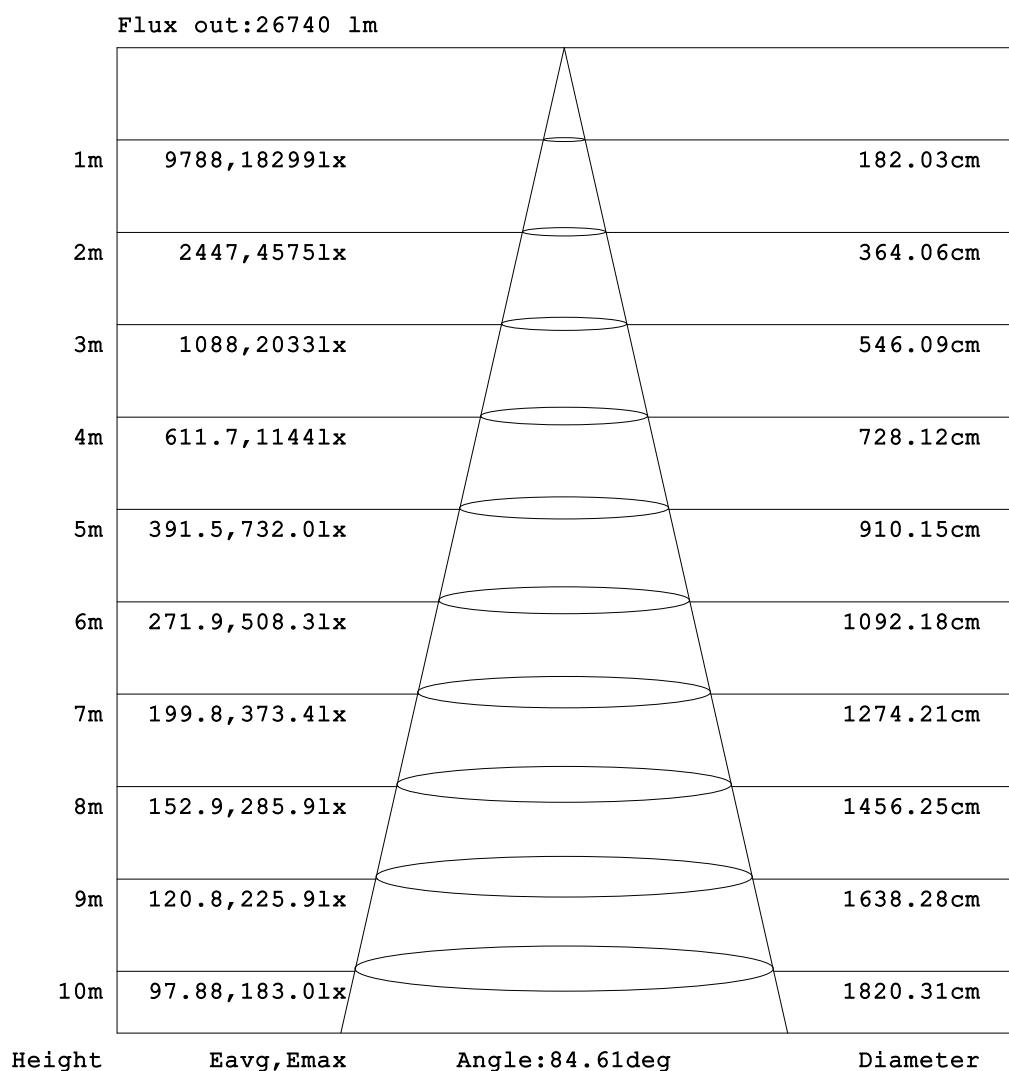


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



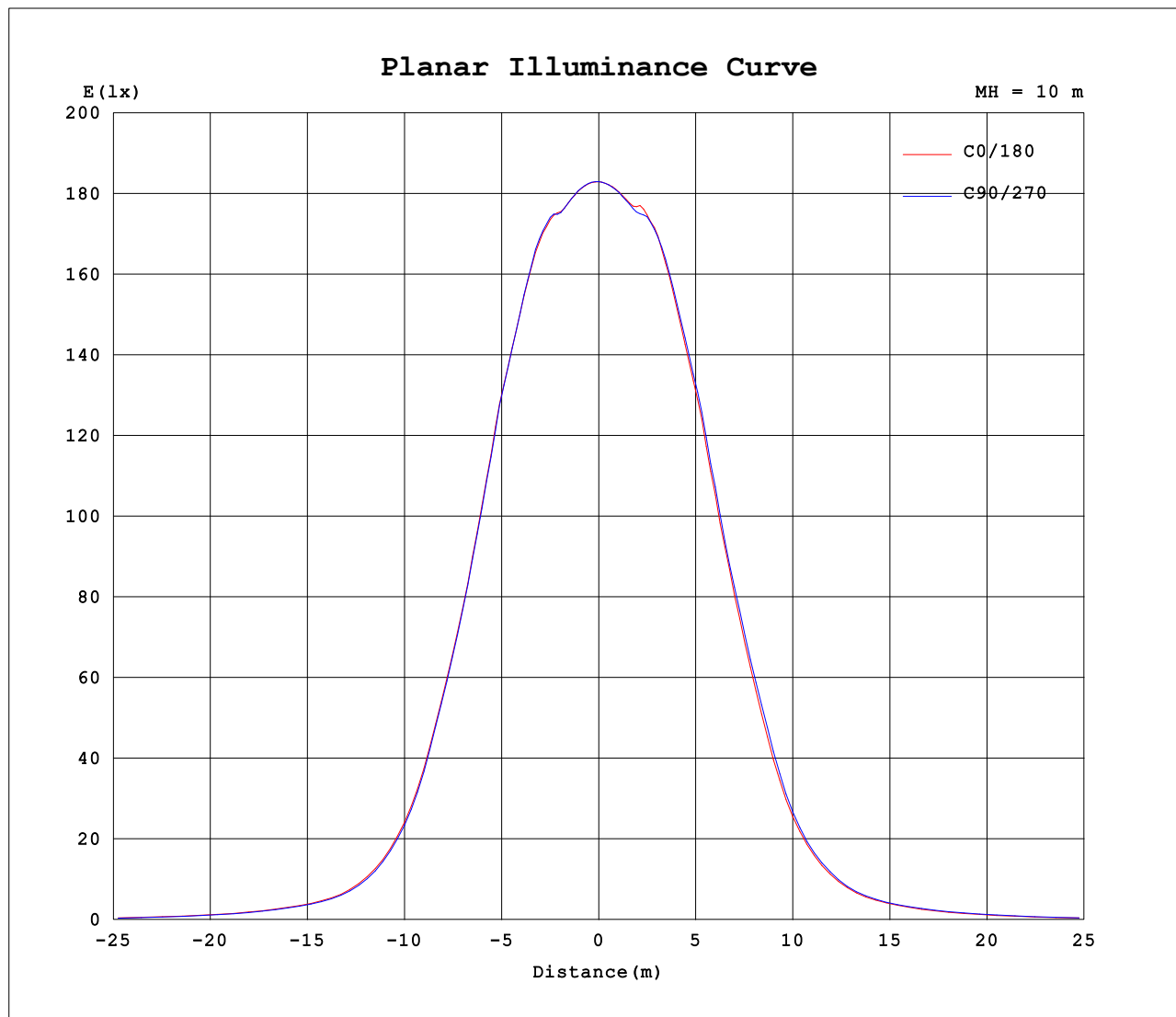
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.890A P:227.3W PF:0.9976 Freq:59.98Hz Lamp Flux:35151.6x1 lm		
NAME: H17XL-RPC-240W-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	1829	1830	1830	1829	1829	1830	1830	1829										
5	1834	1836	1835	1833	1833	1829	1831	1834										
10	1847	1848	1847	1846	1852	1846	1846	1850										
15	1907	1910	1914	1916	1920	1916	1919	1911										
20	1909	1907	1913	1918	1922	1932	1931	1910										
25	1844	1838	1841	1854	1856	1883	1878	1843										
30	1683	1663	1675	1708	1711	1761	1740	1678										
35	1408	1401	1400	1459	1464	1515	1499	1402										
40	1082	1051	1068	1136	1135	1204	1185	1076										
45	685	647	662	713	724	789	757	676										
50	403	374	384	421	427	468	449	400										
55	249	239	239	255	257	282	269	250										
60	180	170	170	183	177	196	191	179										
65	120	112	115	123	119	133	130	120										
70	64.3	59.3	61.9	67.5	65.1	76.5	72.5	64.0										
75	39.9	38.3	38.5	40.8	40.2	45.8	44.0	40.4										
80	27.2	25.3	26.0	28.1	27.4	30.6	29.7	27.9										
85	17.6	16.3	16.9	18.3	17.7	19.1	18.5	17.3										
90	10.6	9.72	10.1	10.9	10.4	10.5	10.7	10.6										
95	8.23	8.14	8.13	8.16	7.93	7.90	7.96	8.12										
100	8.11	8.20	8.16	7.97	7.81	7.78	7.84	7.97										
105	8.62	8.73	8.82	8.45	8.38	8.40	8.44	8.60										
110	9.72	10.1	9.99	9.77	9.72	9.76	9.56	9.96										
115	11.3	11.5	11.4	11.0	11.0	10.7	10.6	11.2										
120	13.3	13.8	13.4	13.3	12.2	12.4	12.4	13.6										
125	13.8	14.8	13.5	14.1	12.4	13.1	12.6	14.3										
130	13.4	14.0	13.1	13.3	12.4	12.5	12.5	13.1										
135	13.5	13.8	13.4	13.4	13.3	13.2	13.2	13.5										
140	14.3	14.5	14.2	14.1	14.2	14.0	14.1	14.3										
145	14.8	14.8	14.8	14.5	14.8	14.5	14.8	14.8										
150	15.1	15.0	15.1	14.7	15.1	14.8	15.0	15.1										
155	15.5	15.5	15.6	15.2	15.6	15.3	15.3	15.6										
160	16.4	16.4	16.5	16.0	16.4	16.2	16.2	16.3										
165	17.1	17.1	17.3	16.8	17.2	17.0	17.1	16.9										
170	17.5	17.1	17.6	17.0	17.6	17.3	17.5	16.7										
175	17.5	17.0	17.4	17.0	17.6	17.0	17.4	16.8										
180	17.8	17.0	17.6	17.0	17.8	17.0	17.6	17.0										

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: