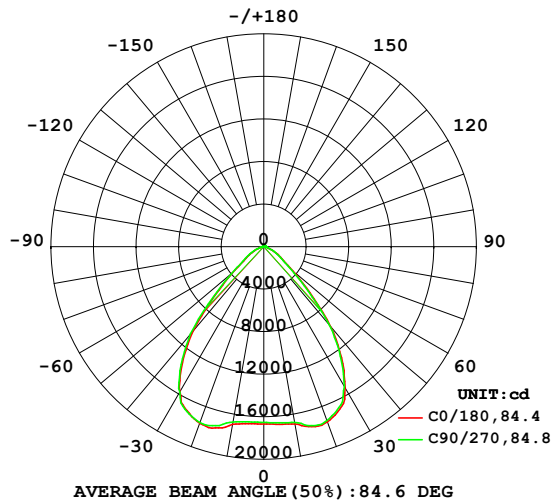


## LUMINAIRE PHOTOMETRIC TEST REPORT

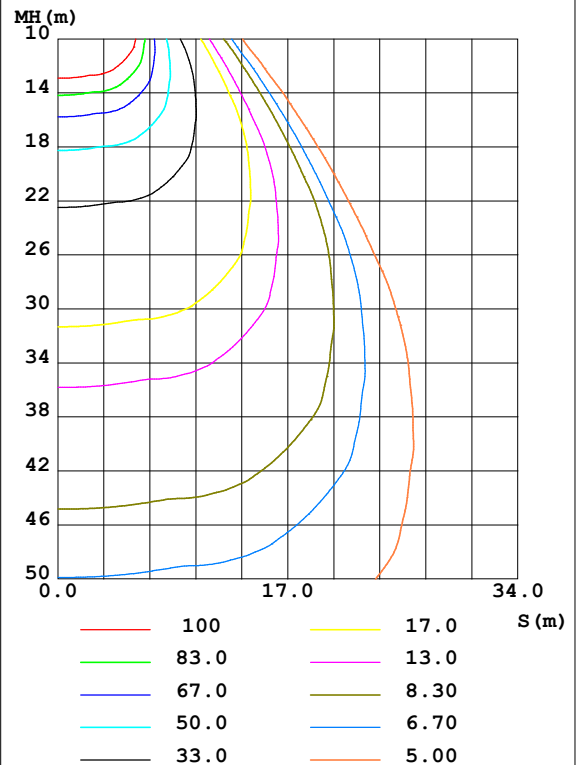
Test:U:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.57 lm/W			
MODEL		Imax(cd)	17800	S/MH(C0/180)	1.23
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	31837	□ UP,DN(C0-180)	1.1,48.0
NOMINAL FLUX(lm)	31837.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.0,49.9
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	1694	1687	1679	1671	1698	1679	1674	1673	0- 10	1593	1593	5,5
20	1751	1741	1740	1740	1767	1767	1759	1732	10- 20	4931	6524	20.5,20.5
30	1531	1526	1516	1556	1576	1608	1580	1515	20- 30	7742	14266	44.8,44.8
40	977.6	945.7	963.7	1027	1031	1089	1072	971.2	30- 40	8077	22343	70.2,70.2
50	364.8	337.4	345.2	377.7	386.3	420.5	408.3	359.5	40- 50	5019	27362	85.9,85.9
60	160.3	149.8	152.3	161.8	159.3	177.8	171.7	161.4	50- 60	2146	29508	92.7,92.7
70	57.36	52.53	55.10	60.06	58.43	69.00	64.95	56.87	60- 70	1078	30585	96.1,96.1
80	24.19	22.44	23.15	25.02	24.63	27.69	26.57	24.85	70- 80	402.5	30988	97.3,97.3
90	9.414	8.627	9.031	9.737	9.334	9.435	9.562	9.392	80- 90	176.6	31165	97.9,97.9
100	7.255	7.326	7.281	7.089	7.006	6.954	6.989	7.088	90-100	82.21	31247	98.1,98.1
110	8.719	8.985	8.926	8.655	8.770	8.809	8.581	8.892	100-110	81.91	31329	98.4,98.4
120	11.92	12.44	12.00	11.99	10.98	11.20	11.16	12.22	110-120	100.9	31430	98.7,98.7
130	12.19	12.64	11.78	11.93	11.17	11.28	11.26	11.73	120-130	107.8	31537	99.1,99.1
140	12.93	13.11	12.74	12.68	12.85	12.64	12.70	12.82	130-140	93.87	31631	99.4,99.4
150	13.63	13.59	13.55	13.24	13.67	13.37	13.49	13.57	140-150	83.02	31714	99.6,99.6
160	14.82	14.83	14.85	14.43	14.88	14.62	14.64	14.67	150-160	64.65	31779	99.8,99.8
170	15.84	15.51	15.89	15.36	16.04	15.66	15.84	15.08	160-170	43.31	31822	100,100
180	16.17	15.42	15.94	15.35	16.22	15.39	15.98	15.33	170-180	14.93	31837	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25368 lm

%lum = 79.7%

%lamp = 79.7%

Conical surface Flux(120deg): 29508 lm

%lum = 92.7%

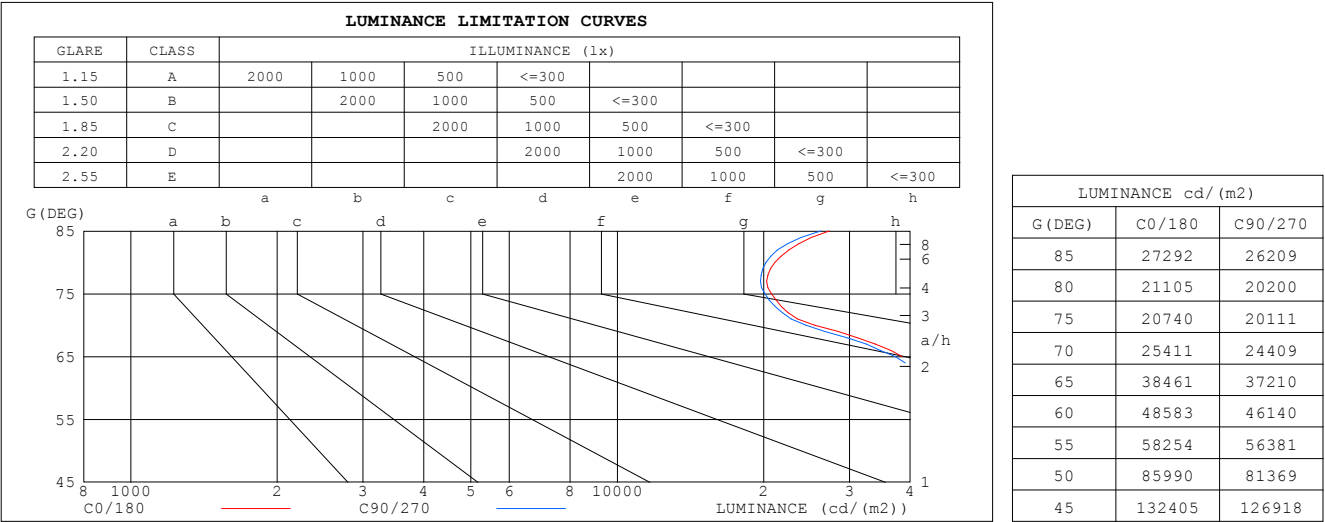
%lamp = 92.7%

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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	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 .117 .038	.192 .111 .036	.180 .104 .034	
2.0	.218 .119 .037	.211 .116 .036	.199 .111 .034	.188 .105 .033	.178 .100 .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	.060 .051 .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 .100 .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	.125 .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 .010 .007	
8.0	.134 .084 .049	.116 .073 .043	.080 .051 .030	.046 .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 .074 .041	.107 .065 .036	.074 .045 .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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm										
NAME: H17XL-RPC-240W-3K					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	26.2	27.4	26.5	27.7	27.9	26.1	27.3	26.4	27.5	27.8
3H	26.4	27.5	26.7	27.7	28.0	26.3	27.3	26.6	27.6	27.9
4H	26.4	27.4	26.7	27.7	28.0	26.3	27.3	26.6	27.6	27.8
6H	26.4	27.3	26.7	27.6	27.9	26.3	27.2	26.6	27.5	27.8
8H	26.4	27.3	26.7	27.6	27.9	26.3	27.2	26.6	27.5	27.8
12H	26.4	27.3	26.8	27.6	27.9	26.3	27.1	26.6	27.5	27.8
4H 2H	26.2	27.2	26.5	27.5	27.8	26.1	27.1	26.4	27.4	27.7
3H	26.4	27.3	26.8	27.6	27.9	26.3	27.2	26.7	27.5	27.8
4H	26.5	27.3	26.8	27.6	28.0	26.3	27.1	26.7	27.5	27.8
6H	26.5	27.2	26.9	27.6	28.0	26.4	27.1	26.8	27.5	27.9
8H	26.6	27.2	27.0	27.6	28.0	26.4	27.1	26.9	27.5	27.9
12H	26.6	27.2	27.1	27.6	28.1	26.5	27.1	26.9	27.5	27.9
8H 4H	26.4	27.0	26.8	27.4	27.9	26.3	26.9	26.7	27.3	27.7
6H	26.5	27.0	27.0	27.5	27.9	26.4	26.9	26.9	27.4	27.8
8H	26.6	27.1	27.1	27.5	28.0	26.5	26.9	27.0	27.4	27.9
12H	26.7	27.1	27.2	27.6	28.1	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	27.3	27.7
6H	26.5	27.0	27.0	27.4	27.9	26.4	26.9	26.9	27.3	27.8
8H	26.6	27.0	27.1	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 / - 2.3					+ 1.5 / - 2.4				
1.5H	+ 2.2 / - 2.1					+ 2.2 / - 2.1				
2.0H	+ 3.1 / - 1.7					+ 3.0 / - 1.6				

CIE Pub.117, 31837 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.0$ )

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:

## UTILIZATION FACTORS TABLE

Test:U:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

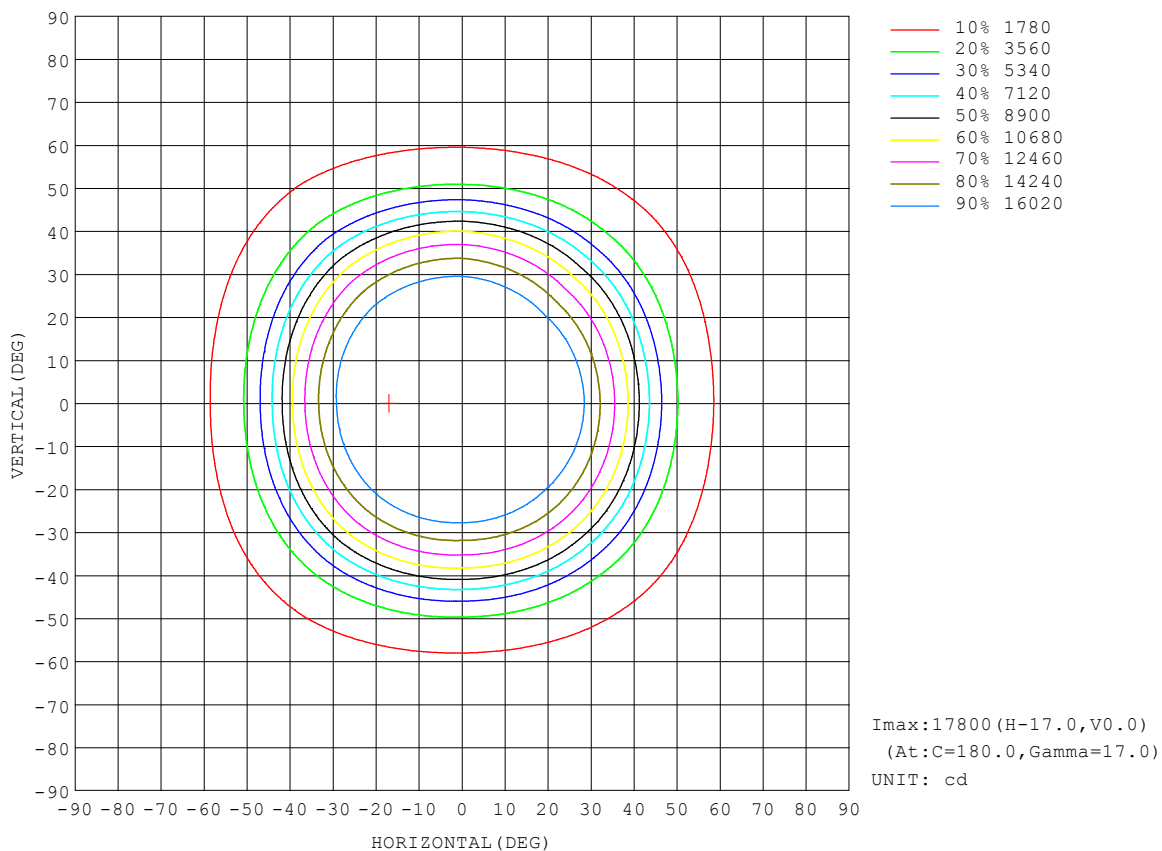
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	74	68	81	73	68	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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

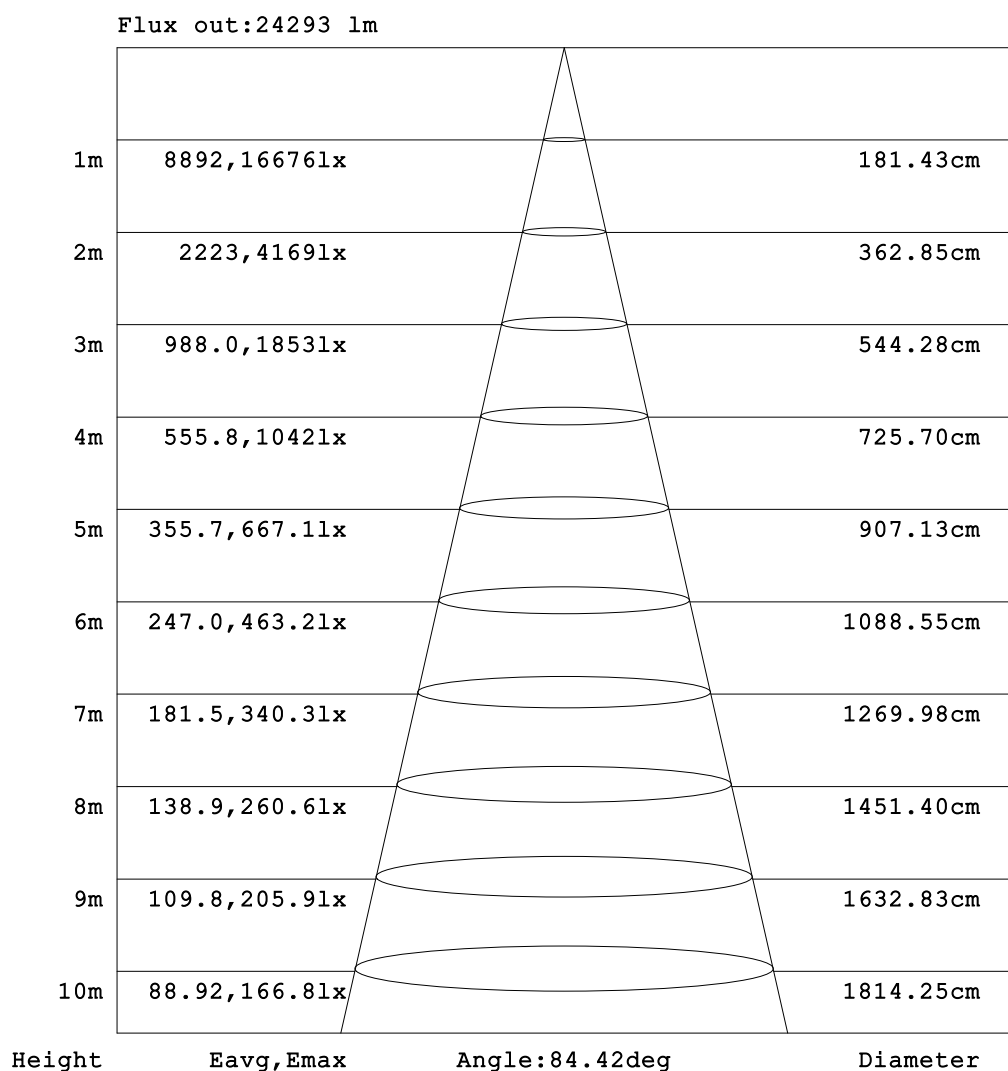


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm		
NAME: H17XL-RPC-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



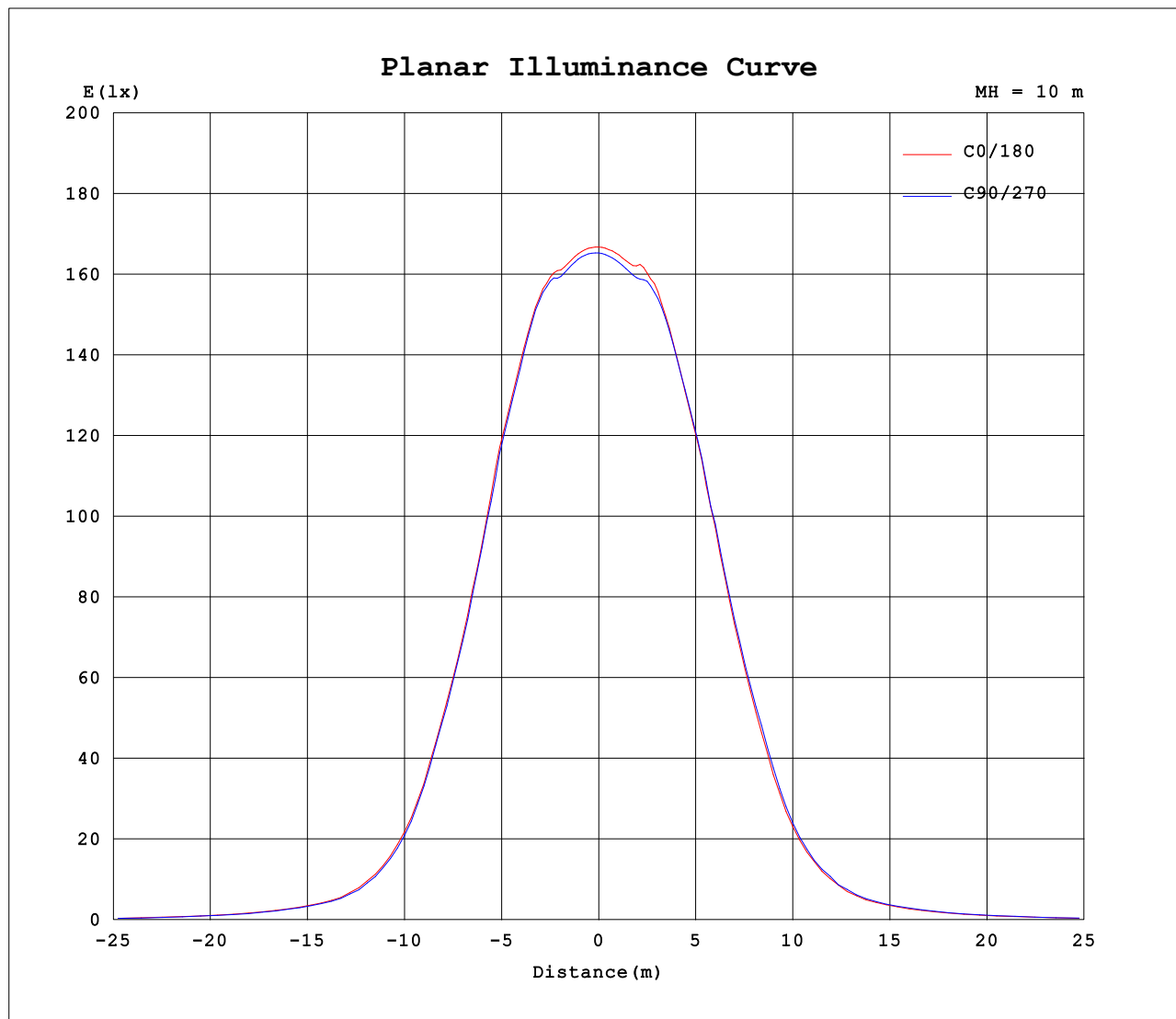
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:1.967A P:236.6W PF:0.9976 Freq:59.98Hz Lamp Flux:31837.2x1 lm								
NAME: H17XL-RPC-240W-3K					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	1668	1660	1653	1647	1668	1660	1653	1647										
5	1676	1670	1662	1653	1672	1660	1654	1652										
10	1694	1687	1679	1671	1698	1679	1674	1673										
15	1751	1743	1741	1737	1763	1749	1744	1731										
20	1751	1741	1740	1740	1767	1767	1759	1732										
25	1689	1674	1672	1679	1705	1724	1712	1668										
30	1531	1526	1516	1556	1576	1608	1580	1515										
35	1276	1267	1258	1311	1333	1379	1354	1257										
40	978	946	964	1027	1031	1089	1072	971										
45	618	577	592	636	655	721	679	605										
50	365	337	345	378	386	421	408	359										
55	221	213	213	228	231	253	243	224										
60	160	150	152	162	159	178	172	161										
65	107	99.8	104	110	108	121	117	108										
70	57.4	52.5	55.1	60.1	58.4	69.0	64.9	56.9										
75	35.4	34.0	34.4	36.3	36.1	41.4	39.4	36.0										
80	24.2	22.4	23.2	25.0	24.6	27.7	26.6	24.8										
85	15.7	14.6	15.1	16.3	16.0	17.3	16.6	15.5										
90	9.41	8.63	9.03	9.74	9.33	9.44	9.56	9.39										
95	7.34	7.25	7.26	7.27	7.11	7.07	7.09	7.22										
100	7.25	7.33	7.28	7.09	7.01	6.95	6.99	7.09										
105	7.73	7.83	7.85	7.52	7.55	7.53	7.57	7.64										
110	8.72	8.98	8.93	8.66	8.77	8.81	8.58	8.89										
115	10.1	10.3	10.2	9.84	9.95	9.59	9.48	9.99										
120	11.9	12.4	12.0	12.0	11.0	11.2	11.2	12.2										
125	12.4	13.3	12.2	12.6	11.2	11.8	11.4	12.7										
130	12.2	12.6	11.8	11.9	11.2	11.3	11.3	11.7										
135	12.2	12.4	12.1	12.1	12.0	11.9	11.8	12.1										
140	12.9	13.1	12.7	12.7	12.9	12.6	12.7	12.8										
145	13.4	13.4	13.3	13.0	13.4	13.1	13.3	13.3										
150	13.6	13.6	13.6	13.2	13.7	13.4	13.5	13.6										
155	14.0	14.0	14.1	13.6	14.1	13.8	13.8	14.0										
160	14.8	14.8	14.8	14.4	14.9	14.6	14.6	14.7										
165	15.5	15.4	15.6	15.1	15.6	15.4	15.5	15.2										
170	15.8	15.5	15.9	15.4	16.0	15.7	15.8	15.1										
175	15.9	15.4	15.8	15.4	16.0	15.5	15.8	15.2										
180	16.2	15.4	15.9	15.4	16.2	15.4	16.0	15.3										

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: