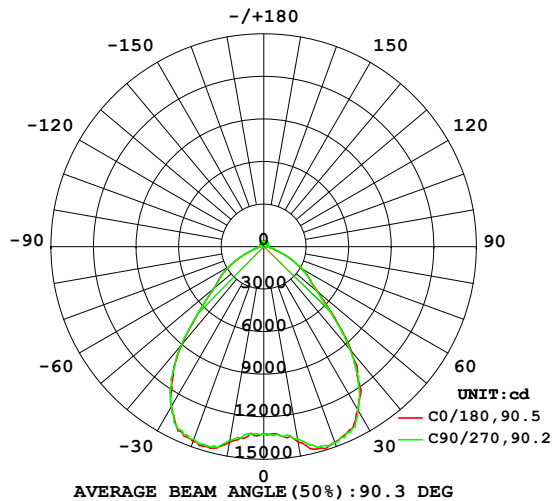


## LUMINAIRE PHOTOMETRIC TEST REPORT

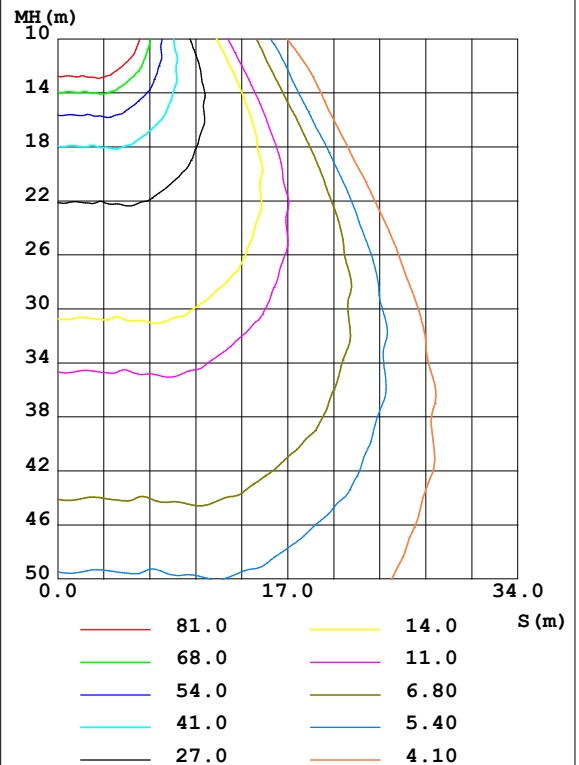
Test:U:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.10 lm/W			
MODEL		Imax(cd)	14900	S/MH(C0/180)	1.27
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	32724	□ UP,DN(C0-180)	2.9,48.0
NOMINAL FLUX(lm)	32724	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.9,46.2
LAMPS INSIDE	1	□ up(%)	5.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	94.2	CIBSE SHR MAX	1.30

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:2022-09-01

□ 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	1399	1386	1376	1390	1401	1396	1385	1398	0- 10	1292	1292	3.95,3.95
20	1468	1468	1471	1463	1462	1453	1445	1473	10- 20	4126	5419	16.6,16.6
30	1329	1347	1327	1311	1300	1304	1307	1311	20- 30	6528	11947	36.5,36.5
40	958.4	965.8	943.3	929.6	892.5	908.8	903.9	895.9	30- 40	7111	19058	58.2,58.2
50	498.4	502.8	488.7	485.6	463.4	462.6	456.9	450.8	40- 50	5216	24274	74.2,74.2
60	302.5	304.2	306.1	306.3	282.5	284.2	284.4	281.9	50- 60	3412	27686	84.6,84.6
70	126.7	127.6	130.6	124.7	109.4	115.8	116.9	112.7	60- 70	2028	29714	90.8,90.8
80	46.23	48.61	49.10	46.70	41.29	42.94	44.49	42.35	70- 80	806.5	30521	93.3,93.3
90	19.67	19.91	20.58	20.21	19.78	19.59	20.08	20.10	80- 90	318.2	30839	94.2,94.2
100	25.00	24.75	24.45	24.44	25.42	25.03	25.55	25.82	90-100	230.7	31070	94.9,94.9
110	28.53	28.52	27.42	28.10	27.72	27.77	28.02	29.26	100-110	283.5	31353	95.8,95.8
120	29.18	31.47	28.09	29.69	27.70	29.58	28.10	30.24	110-120	286.4	31639	96.7,96.7
130	31.35	34.95	31.52	32.13	30.01	30.65	29.79	30.92	120-130	269.7	31909	97.5,97.5
140	33.84	37.92	35.09	35.65	33.87	35.32	33.51	35.78	130-140	254.0	32163	98.3,98.3
150	41.06	42.62	40.95	42.80	41.30	41.52	41.03	43.13	140-150	241.7	32405	99,99
160	41.85	38.16	41.52	37.21	39.78	36.32	41.01	36.90	150-160	191.5	32596	99.6,99.6
170	34.56	28.31	32.72	27.81	31.03	27.87	30.01	28.05	160-170	98.95	32695	99.9,99.9
180	36.27	32.23	36.27	32.37	36.32	31.95	36.49	31.81	170-180	28.74	32724	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 21995 lm

%lum = 67.2%

%lamp = 67.2%

Conical surface Flux(120deg): 27686 lm

%lum = 84.6%

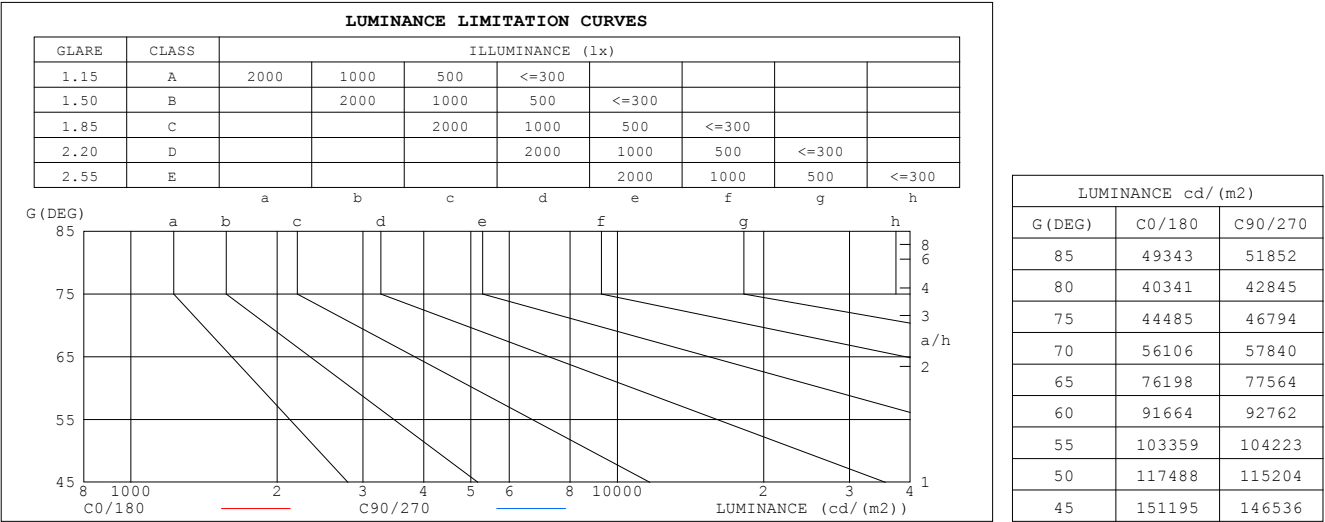
%lamp = 84.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-09-01

□ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-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:2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-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	.254 .144 .046	.245 .140 .044	.229 .131 .042	.214 .123 .040	.200 .116 .037	
2.0	.242 .133 .041	.235 .129 .040	.220 .122 .038	.207 .116 .036	.195 .110 .035	
3.0	.228 .121 .036	.221 .119 .036	.209 .113 .034	.197 .108 .033	.186 .103 .032	
4.0	.214 .111 .033	.208 .109 .032	.197 .104 .031	.186 .100 .030	.176 .096 .029	
5.0	.201 .102 .030	.195 .100 .029	.185 .096 .028	.176 .093 .028	.167 .089 .027	
6.0	.189 .095 .027	.184 .093 .027	.175 .090 .026	.166 .086 .025	.158 .083 .025	
7.0	.178 .088 .025	.173 .086 .025	.165 .083 .024	.157 .081 .023	.150 .078 .023	
8.0	.167 .082 .023	.164 .081 .023	.156 .078 .022	.149 .075 .022	.142 .073 .021	
9.0	.158 .077 .021	.155 .075 .021	.148 .073 .021	.141 .071 .020	.135 .069 .020	
10.0	.150 .072 .020	.147 .071 .020	.140 .069 .019	.135 .067 .019	.129 .065 .019	

<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	.234 .234 .234	.200 .200 .200	.137 .137 .137	.079 .079 .079	.025 .025 .025	
1.0	.221 .201 .183	.189 .172 .158	.129 .119 .109	.074 .069 .063	.024 .022 .020	
2.0	.210 .177 .149	.180 .152 .128	.123 .105 .090	.071 .061 .053	.023 .020 .017	
3.0	.201 .159 .125	.172 .137 .108	.118 .095 .076	.068 .056 .045	.022 .018 .015	
4.0	.193 .145 .109	.166 .125 .094	.114 .087 .066	.066 .051 .039	.021 .017 .013	
5.0	.186 .135 .097	.160 .116 .084	.110 .081 .059	.064 .048 .035	.021 .016 .012	
6.0	.179 .126 .088	.154 .109 .077	.106 .076 .054	.062 .045 .032	.020 .015 .011	
7.0	.173 .119 .081	.149 .103 .071	.103 .072 .050	.060 .043 .030	.019 .014 .010	
8.0	.167 .113 .077	.144 .098 .067	.099 .069 .047	.058 .041 .028	.019 .013 .009	
9.0	.161 .108 .073	.139 .094 .063	.096 .066 .045	.056 .039 .027	.018 .013 .009	
10.0	.156 .104 .070	.135 .091 .061	.094 .064 .043	.055 .038 .026	.018 .012 .009	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm										
NAME: H17XL-RPC-RDL-240W-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	28.1	29.4	28.5	29.7	30.0	28.1	29.4	28.5	29.7	30.0
3H	28.7	29.9	29.1	30.2	30.5	28.7	29.9	29.1	30.2	30.5
4H	28.8	29.9	29.2	30.3	30.6	28.9	29.9	29.2	30.3	30.6
6H	28.9	29.9	29.3	30.3	30.7	29.0	30.0	29.4	30.3	30.7
8H	28.9	29.9	29.4	30.3	30.7	29.0	30.0	29.4	30.3	30.7
12H	29.0	29.9	29.4	30.3	30.7	29.0	30.0	29.5	30.4	30.8
4H 2H	28.4	29.5	28.8	29.8	30.2	28.4	29.5	28.8	29.8	30.2
3H	29.1	30.0	29.5	30.4	30.8	29.1	30.0	29.5	30.4	30.8
4H	29.3	30.1	29.7	30.5	31.0	29.3	30.1	29.8	30.6	31.0
6H	29.4	30.2	29.9	30.6	31.1	29.5	30.2	30.0	30.7	31.2
8H	29.5	30.2	30.0	30.6	31.1	29.6	30.3	30.1	30.7	31.2
12H	29.6	30.2	30.1	30.7	31.2	29.7	30.3	30.2	30.8	31.3
8H 4H	29.3	30.0	29.8	30.4	30.9	29.3	30.0	29.8	30.5	31.0
6H	29.5	30.1	30.1	30.6	31.2	29.6	30.2	30.1	30.7	31.2
8H	29.7	30.2	30.2	30.7	31.3	29.8	30.3	30.3	30.8	31.3
12H	29.8	30.3	30.4	30.8	31.4	29.9	30.3	30.5	30.9	31.5
12H 4H	29.3	29.9	29.8	30.4	30.9	29.3	29.9	29.8	30.4	30.9
6H	29.5	30.0	30.1	30.6	31.1	29.6	30.1	30.1	30.6	31.2
8H	29.7	30.1	30.3	30.7	31.3	29.8	30.2	30.3	30.8	31.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 0.6 / - 0.6					+ 0.7 / - 0.6				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 32724 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.1$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

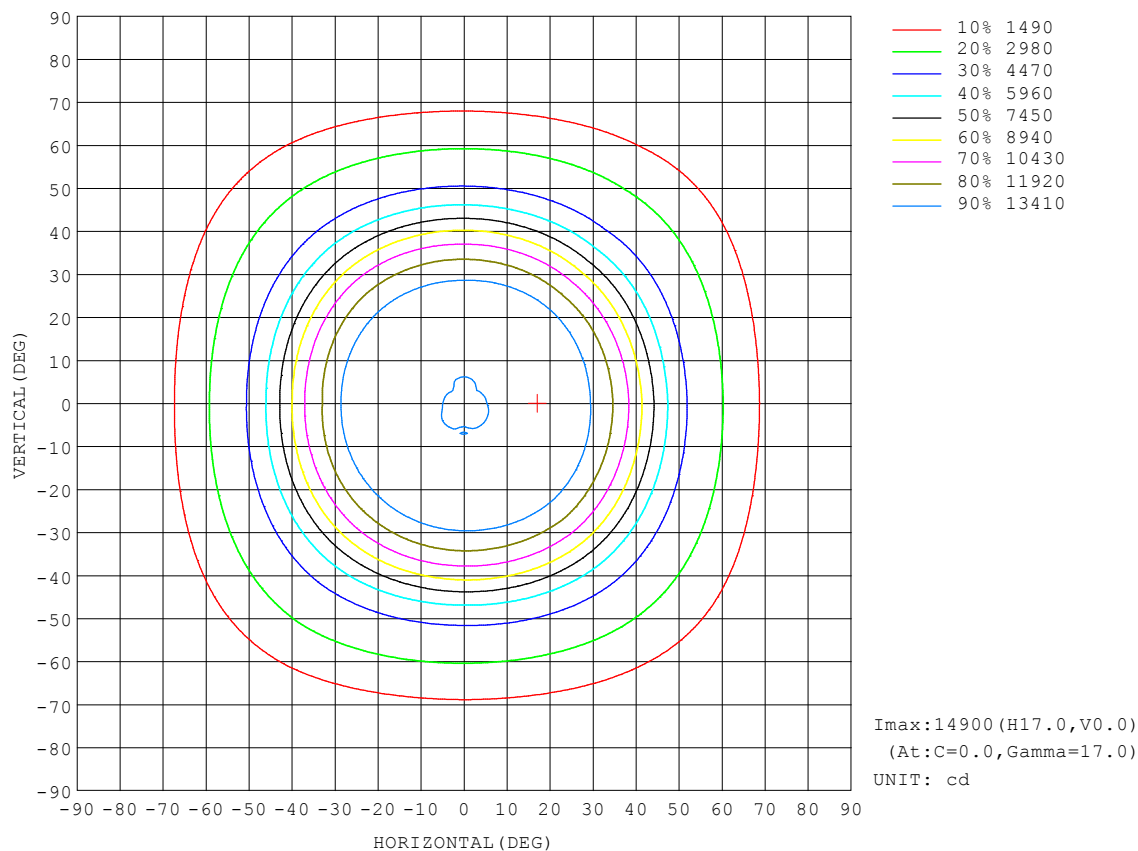
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	50	65	55	49	63	54	49	43
0.80	75	65	59	74	65	59	72	64	58	52
1.00	83	73	67	81	73	67	79	73	66	60
1.25	89	80	74	87	79	74	84	77	73	66
1.50	93	85	79	91	84	79	88	82	77	70
2.00	99	92	86	97	90	85	93	87	83	75
2.50	102	95	90	99	94	89	95	90	87	78
3.00	104	99	94	102	97	93	97	93	90	81
4.00	108	103	99	105	101	97	100	97	94	84
5.00	109	105	102	107	103	100	101	99	96	86
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: 2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

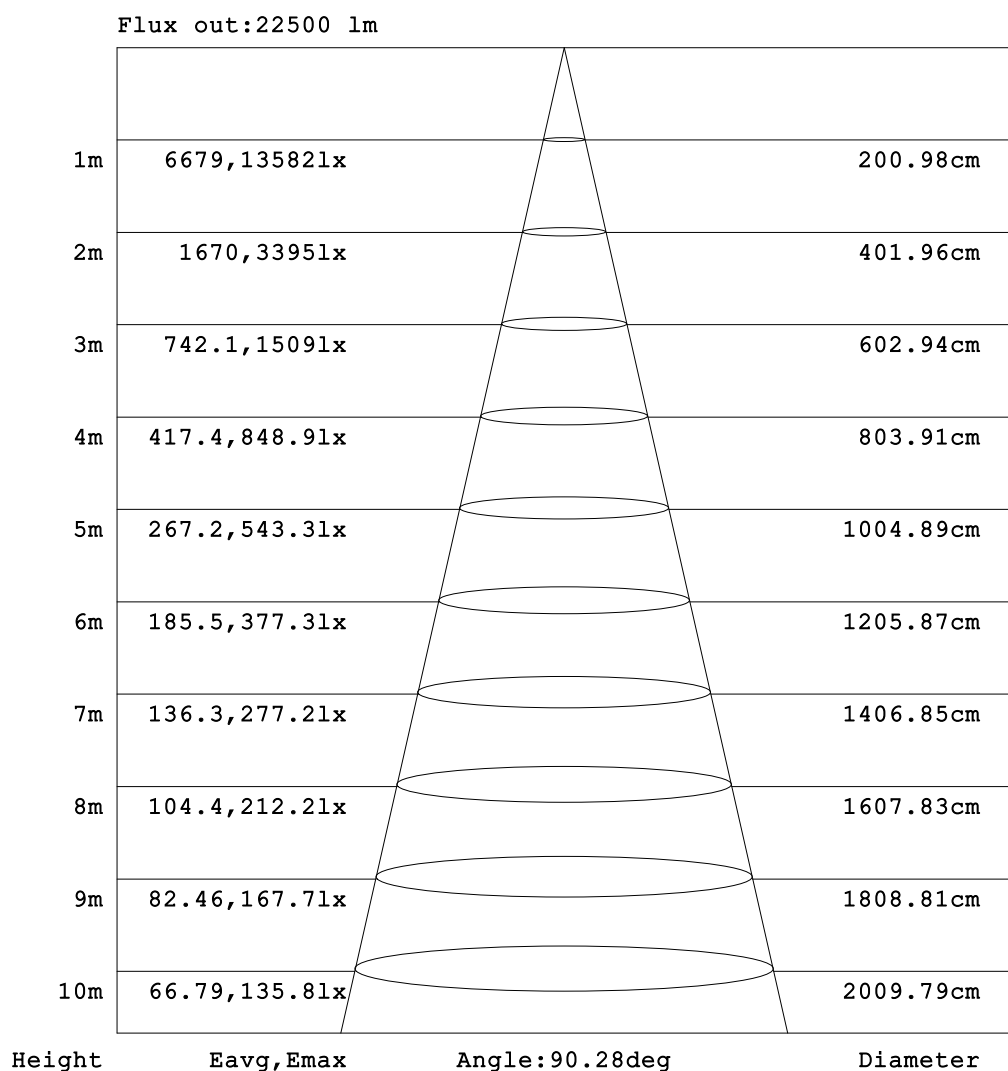


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm		
NAME: H17XL-RPC-RDL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



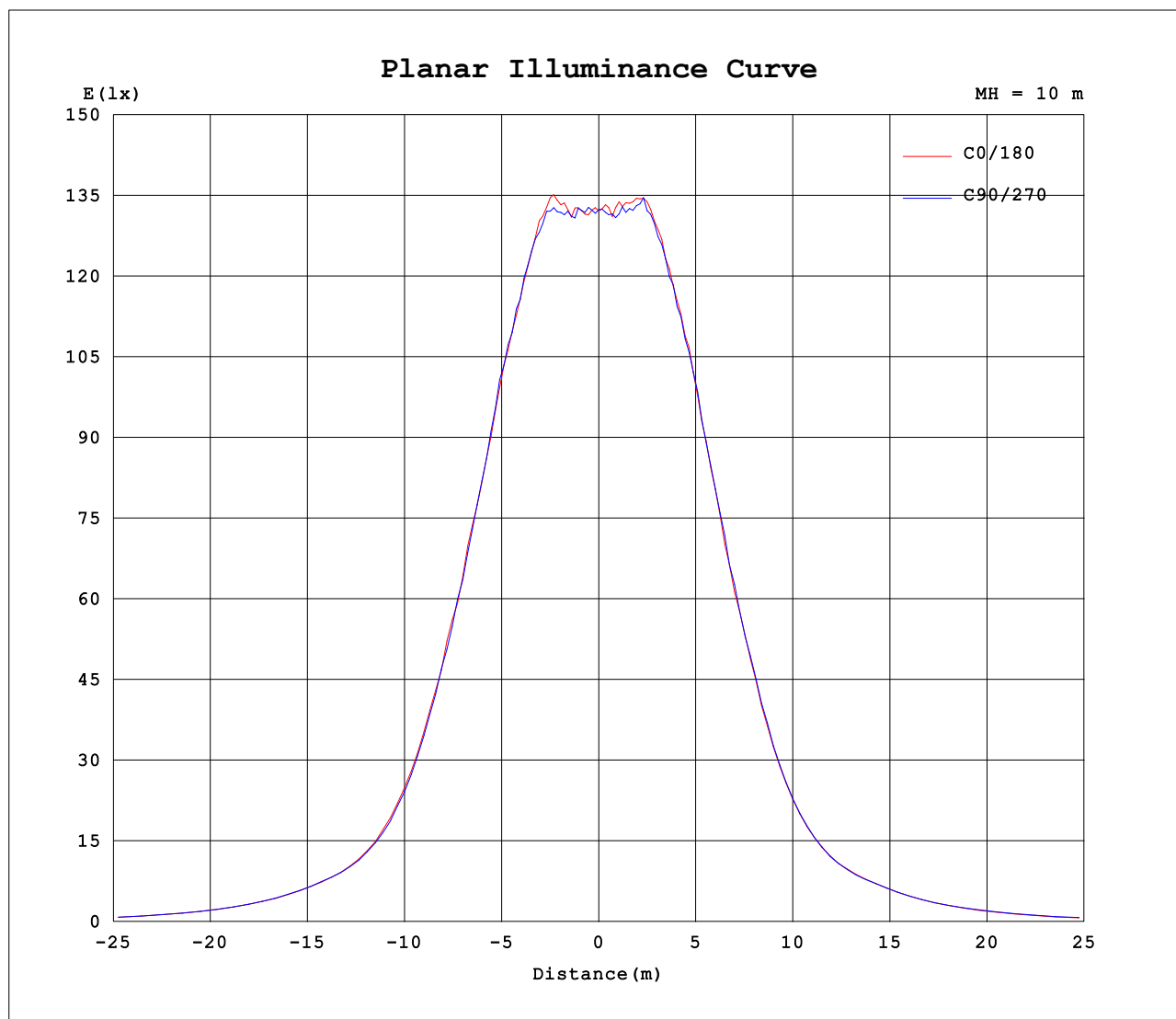
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Marvin Ma  
 Test Date: 2022-09-01

☐ 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: 2022-09-01

☐ 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:120.3V I:1.989A P:238.7W PF:0.9976 Freq:59.98Hz Lamp Flux:32724x1 lm								
NAME: H17XL-RPC-RDL-240W-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	1322	1322	1324	1324	1322	1322	1324	1324										
5	1337	1312	1337	1326	1343	1352	1324	1347										
10	1399	1386	1376	1390	1401	1396	1385	1398										
15	1474	1460	1465	1468	1470	1467	1460	1472										
20	1468	1468	1471	1463	1462	1453	1445	1473										
25	1428	1448	1442	1430	1433	1421	1421	1438										
30	1329	1347	1327	1311	1300	1304	1307	1311										
35	1168	1190	1157	1164	1115	1135	1142	1109										
40	958	966	943	930	892	909	904	896										
45	706	702	684	673	644	653	647	631										
50	498	503	489	486	463	463	457	451										
55	391	399	395	394	374	374	375	370										
60	302	304	306	306	283	284	284	282										
65	213	216	216	214	192	197	199	193										
70	127	128	131	125	109	116	117	113										
75	76.0	79.2	79.9	75.7	66.7	70.8	71.8	68.9										
80	46.2	48.6	49.1	46.7	41.3	42.9	44.5	42.3										
85	28.4	29.1	29.8	28.9	25.7	26.3	27.4	26.1										
90	19.7	19.9	20.6	20.2	19.8	19.6	20.1	20.1										
95	19.9	19.9	19.7	19.7	20.4	20.1	20.4	20.5										
100	25.0	24.7	24.5	24.4	25.4	25.0	25.5	25.8										
105	27.2	26.8	26.5	26.3	26.9	26.5	27.3	27.4										
110	28.5	28.5	27.4	28.1	27.7	27.8	28.0	29.3										
115	29.0	30.1	27.5	29.3	27.7	29.0	27.9	30.3										
120	29.2	31.5	28.1	29.7	27.7	29.6	28.1	30.2										
125	29.9	33.0	29.6	30.1	28.5	29.8	28.7	30.1										
130	31.3	34.9	31.5	32.1	30.0	30.7	29.8	30.9										
135	31.9	35.7	32.7	33.4	31.4	32.1	31.0	32.4										
140	33.8	37.9	35.1	35.6	33.9	35.3	33.5	35.8										
145	37.4	40.3	38.2	39.4	37.8	38.7	37.0	40.2										
150	41.1	42.6	40.9	42.8	41.3	41.5	41.0	43.1										
155	42.3	41.8	42.1	41.6	41.4	40.5	42.4	41.2										
160	41.9	38.2	41.5	37.2	39.8	36.3	41.0	36.9										
165	38.6	32.9	37.7	31.9	35.5	30.8	35.6	31.6										
170	34.6	28.3	32.7	27.8	31.0	27.9	30.0	28.0										
175	33.7	29.9	32.2	28.8	32.5	29.8	30.4	30.1										
180	36.3	32.2	36.3	32.4	36.3	31.9	36.5	31.8										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-09-01

□ 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: