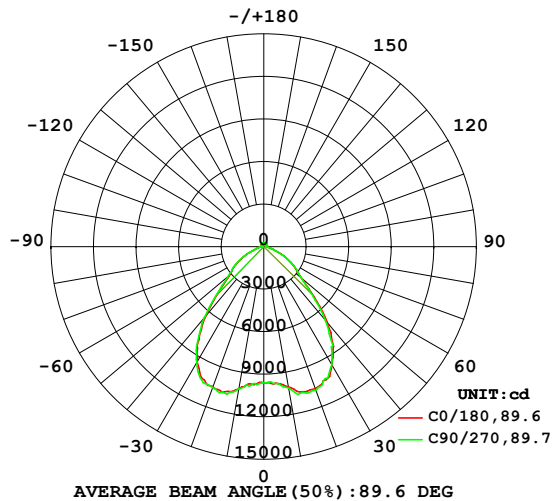


## LUMINAIRE PHOTOMETRIC TEST REPORT

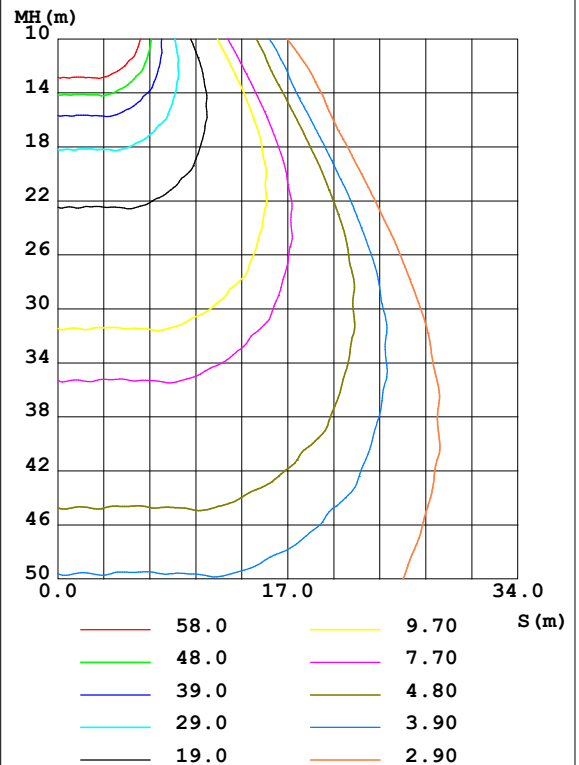
Test:U:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm		
NAME: H17XL-RPC-RDL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.00 lm/W			
MODEL		I <sub>max</sub> (cd)	10821	S/MH(C0/180)	1.26
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	23523	□ UP,DN(C0-180)	2.9,48.1
NOMINAL FLUX(lm)	23522.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.8,46.2
LAMPS INSIDE	1	□ up(%)	5.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	94.3	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	1003	1013	1014	1004	1017	1015	1018	1029	0- 10	941.2	941.2	4,4
20	1066	1082	1079	1058	1050	1064	1058	1052	10- 20	3000	3941	16.8,16.8
30	965.1	966.0	963.6	957.8	940.3	947.7	943.8	944.9	20- 30	4729	8670	36.9,36.9
40	696.5	684.4	671.0	682.6	629.1	644.4	649.9	642.4	30- 40	5109	13779	58.6,58.6
50	351.3	351.9	352.4	351.3	320.7	328.3	331.3	326.9	40- 50	3711	17490	74.4,74.4
60	214.7	217.8	219.5	219.9	199.4	204.5	202.8	199.5	50- 60	2432	19922	84.7,84.7
70	94.57	93.38	91.33	92.22	80.68	83.10	81.14	80.19	60- 70	1453	21376	90.9,90.9
80	35.56	34.92	32.72	34.70	30.86	29.87	30.03	30.31	70- 80	579.0	21955	93.3,93.3
90	14.33	14.00	14.31	14.59	14.24	13.91	14.18	14.30	80- 90	227.8	22182	94.3,94.3
100	17.60	17.64	17.51	17.34	18.00	17.93	18.29	18.31	90-100	163.9	22346	95,95
110	20.24	20.69	19.66	19.76	19.55	20.08	20.00	20.43	100-110	201.9	22548	95.9,95.9
120	20.64	22.28	20.30	21.70	19.84	20.92	19.78	21.61	110-120	204.2	22752	96.7,96.7
130	22.29	24.60	22.31	23.30	21.67	21.51	21.00	22.48	120-130	192.6	22945	97.5,97.5
140	24.18	25.90	24.28	25.46	24.43	24.90	23.69	26.41	130-140	180.9	23126	98.3,98.3
150	28.61	29.83	28.97	30.18	29.58	29.93	29.23	30.50	140-150	170.9	23297	99,99
160	29.02	26.70	29.38	26.95	28.46	25.96	28.50	26.24	150-160	135.6	23432	99.6,99.6
170	23.43	20.06	23.37	20.47	22.56	19.86	21.44	18.83	160-170	69.98	23502	99.9,99.9
180	25.72	23.87	26.38	21.82	25.70	24.16	26.39	21.71	170-180	20.36	23523	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 15875 lm

%lum = 67.5%

%lamp = 67.5%

Conical surface Flux(120deg): 19922 lm

%lum = 84.7%

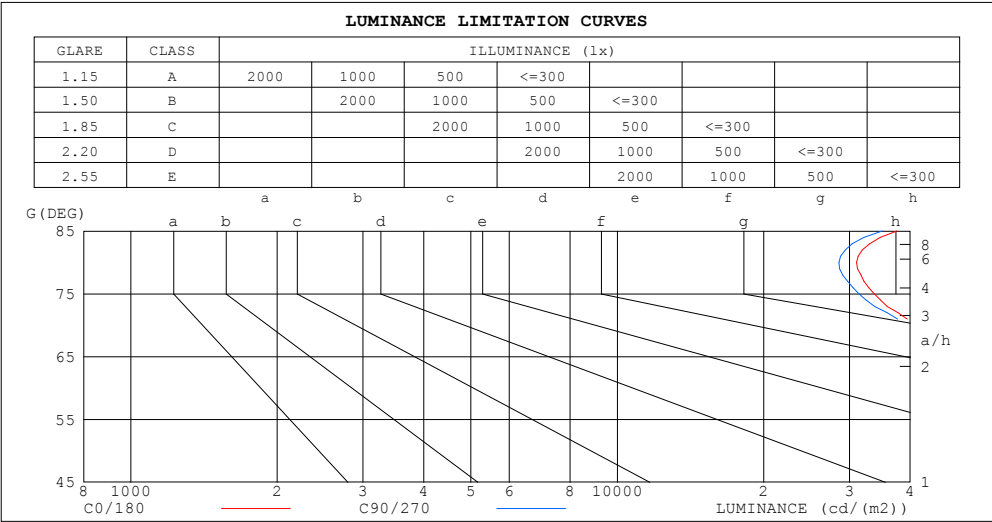
%lamp = 84.7%

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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm		
NAME: H17XL-RPC-RDL-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	37572	35023
80	31029	28546
75	33747	31384
70	41893	40461
65	55401	55168
60	65048	66501
55	72923	75234
50	82818	83055
45	108162	104674

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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm					
NAME: H17XL-RPC-RDL-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	.253	.144	.046	.244	.139	.044	.228	.131	.042	.213	.123	.039	.200	.116	.037		
2.0	.242	.132	.041	.234	.129	.040	.220	.122	.038	.207	.116	.036	.194	.110	.035		
3.0	.228	.121	.036	.221	.118	.036	.208	.113	.034	.197	.108	.033	.186	.103	.032		
4.0	.214	.111	.033	.208	.109	.032	.196	.104	.031	.186	.100	.030	.176	.096	.029		
5.0	.200	.102	.030	.195	.100	.029	.185	.096	.028	.176	.093	.028	.167	.089	.027		
6.0	.188	.094	.027	.183	.093	.027	.174	.089	.026	.166	.086	.025	.158	.083	.025		
7.0	.177	.088	.025	.173	.086	.025	.165	.083	.024	.157	.080	.023	.150	.078	.023		
8.0	.167	.082	.023	.163	.080	.023	.156	.078	.022	.149	.075	.022	.142	.073	.021		
9.0	.158	.076	.021	.154	.075	.021	.148	.073	.021	.141	.071	.020	.135	.069	.020		
10.0	.150	.072	.020	.146	.071	.020	.140	.069	.019	.134	.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	.136	.136	.136	.078	.078	.078	.025	.025	.025		
1.0	.220	.200	.183	.188	.172	.157	.129	.118	.109	.074	.068	.063	.024	.022	.020		
2.0	.210	.176	.148	.180	.152	.128	.123	.105	.089	.071	.061	.052	.023	.020	.017		
3.0	.201	.158	.125	.172	.137	.108	.118	.095	.076	.068	.055	.045	.022	.018	.015		
4.0	.193	.145	.108	.165	.125	.094	.114	.087	.066	.066	.051	.039	.021	.017	.013		
5.0	.185	.134	.096	.159	.116	.084	.110	.081	.059	.063	.048	.035	.020	.016	.012		
6.0	.178	.126	.088	.153	.109	.076	.106	.076	.054	.061	.045	.032	.020	.015	.011		
7.0	.172	.119	.081	.148	.103	.071	.102	.072	.050	.059	.042	.030	.019	.014	.010		
8.0	.166	.113	.076	.143	.098	.066	.099	.069	.047	.058	.041	.028	.019	.013	.009		
9.0	.161	.108	.072	.139	.094	.063	.096	.066	.045	.056	.039	.027	.018	.013	.009		
10.0	.156	.104	.069	.134	.090	.060	.093	.063	.043	.054	.037	.026	.018	.012	.008		

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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm										
NAME: H17XL-RPC-RDL-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	26.9	28.2	27.3	28.5	28.8	26.9	28.2	27.3	28.5	28.8
3H	27.5	28.7	27.9	29.0	29.3	27.5	28.7	27.9	29.0	29.3
4H	27.7	28.8	28.1	29.1	29.5	27.6	28.7	28.0	29.1	29.4
6H	27.8	28.8	28.2	29.2	29.5	27.7	28.7	28.1	29.1	29.5
8H	27.8	28.8	28.2	29.2	29.6	27.7	28.7	28.2	29.1	29.5
12H	27.9	28.8	28.3	29.2	29.6	27.8	28.7	28.2	29.1	29.5
4H 2H	27.2	28.3	27.6	28.6	29.0	27.2	28.3	27.6	28.6	29.0
3H	27.9	28.8	28.3	29.2	29.6	27.9	28.8	28.3	29.2	29.6
4H	28.1	29.0	28.6	29.4	29.8	28.1	28.9	28.5	29.3	29.8
6H	28.3	29.1	28.8	29.5	30.0	28.2	29.0	28.7	29.4	29.9
8H	28.4	29.1	28.9	29.6	30.1	28.3	29.0	28.8	29.5	30.0
12H	28.5	29.1	29.0	29.6	30.1	28.4	29.0	28.9	29.5	30.0
8H 4H	28.2	28.8	28.7	29.3	29.8	28.1	28.8	28.6	29.3	29.8
6H	28.4	29.0	29.0	29.5	30.1	28.4	28.9	28.9	29.4	30.0
8H	28.6	29.1	29.1	29.6	30.2	28.5	29.0	29.0	29.5	30.1
12H	28.8	29.2	29.3	29.7	30.3	28.6	29.1	29.2	29.6	30.2
12H 4H	28.1	28.8	28.6	29.2	29.8	28.1	28.7	28.6	29.2	29.7
6H	28.4	28.9	29.0	29.5	30.0	28.4	28.9	28.9	29.4	30.0
8H	28.6	29.1	29.2	29.6	30.2	28.5	29.0	29.1	29.5	30.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7				
1.5H	+ 0.6 / - 0.6					+ 0.6 / - 0.6				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 23523 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.0$ )

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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm		
NAME: H17XL-RPC-RDL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

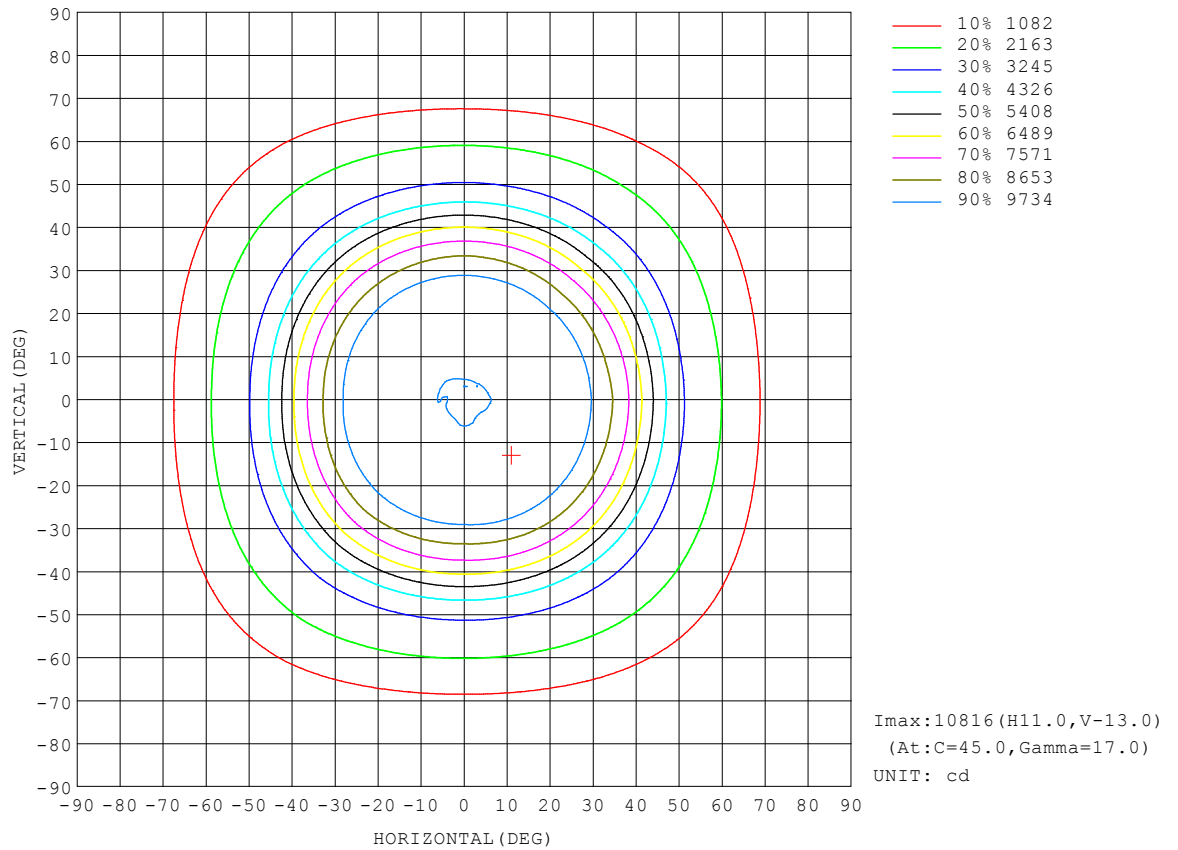
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	63	55	49	44
0.80	75	65	59	74	65	59	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	78	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	110	106	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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm		
NAME: H17XL-RPC-RDL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

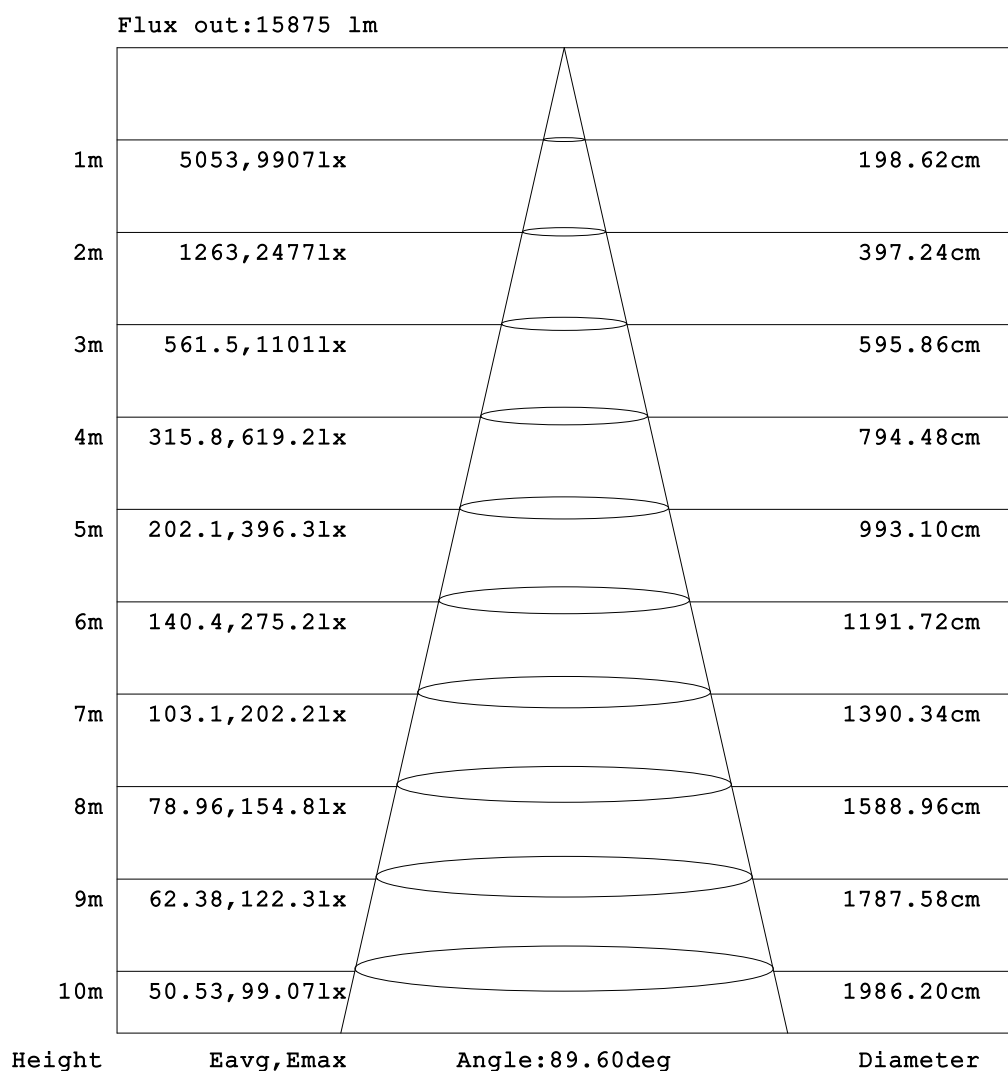


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-09-01

□ 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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm		
NAME: H17XL-RPC-RDL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



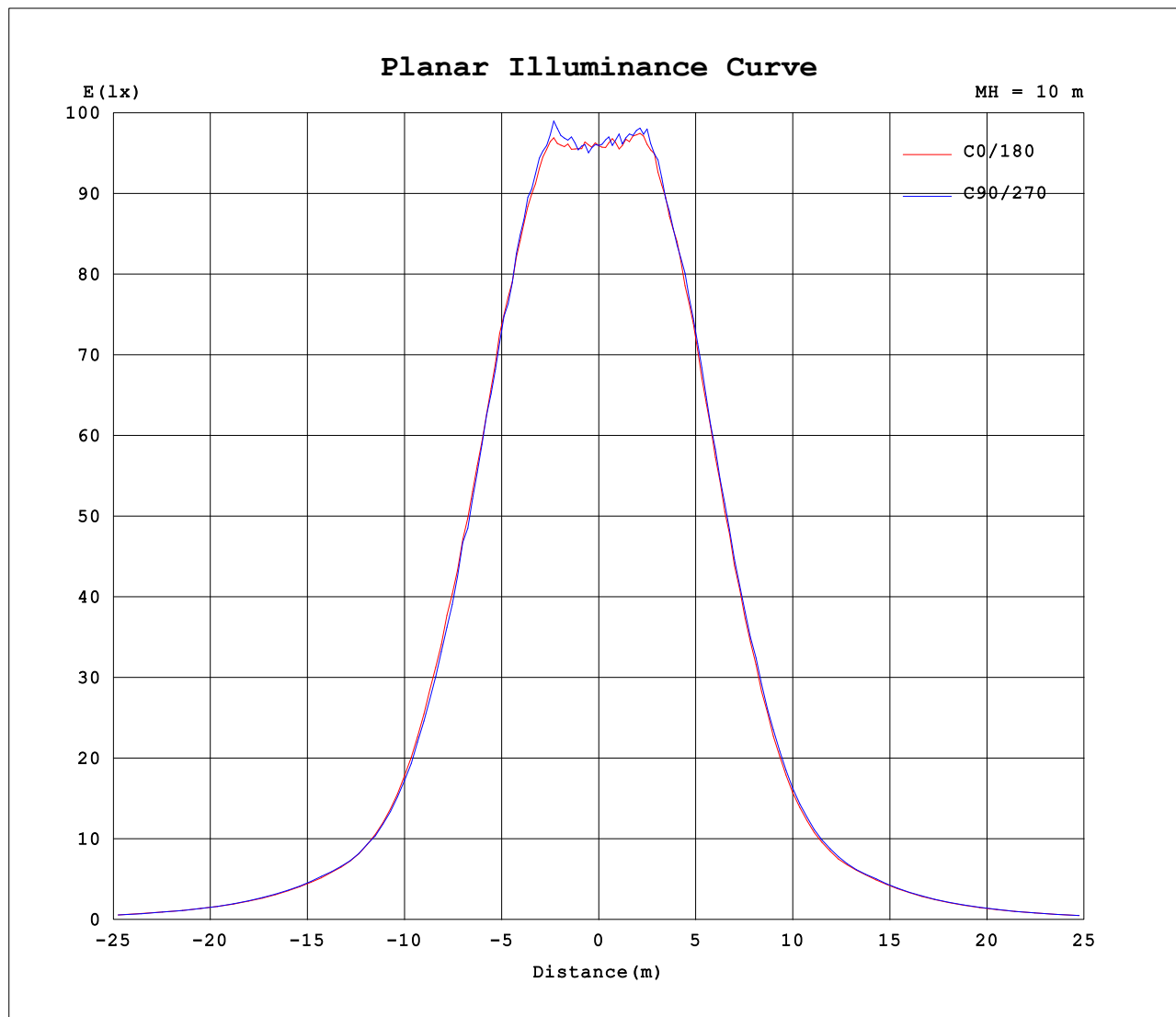
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

☐ 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:120.5V I:1.295A P:155.8W PF:0.9980 Freq:59.98Hz Lamp Flux:23522.7x1 lm								
NAME: H17XL-RPC-RDL-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	959	959	960	964	959	959	960	964										
5	967	975	970	976	974	965	977	973										
10	1003	1013	1014	1004	1017	1015	1018	1029										
15	1060	1065	1065	1059	1059	1065	1068	1070										
20	1066	1082	1079	1058	1050	1064	1058	1052										
25	1037	1050	1026	1030	1026	1033	1036	1031										
30	965	966	964	958	940	948	944	945										
35	858	835	851	839	798	819	812	816										
40	697	684	671	683	629	644	650	642										
45	505	493	489	491	446	456	460	457										
50	351	352	352	351	321	328	331	327										
55	276	285	285	282	262	268	269	264										
60	215	218	219	220	199	205	203	200										
65	155	154	154	155	139	142	140	138										
70	94.6	93.4	91.3	92.2	80.7	83.1	81.1	80.2										
75	57.6	57.5	53.6	55.6	50.0	49.5	48.6	49.1										
80	35.6	34.9	32.7	34.7	30.9	29.9	30.0	30.3										
85	21.6	20.6	20.1	21.6	19.0	18.5	18.7	18.7										
90	14.3	14.0	14.3	14.6	14.2	13.9	14.2	14.3										
95	14.0	13.9	14.1	14.2	14.5	14.3	14.5	14.5										
100	17.6	17.6	17.5	17.3	18.0	17.9	18.3	18.3										
105	19.4	19.2	18.9	18.7	19.1	19.0	19.4	19.3										
110	20.2	20.7	19.7	19.8	19.5	20.1	20.0	20.4										
115	20.6	21.7	19.8	20.8	19.6	20.8	19.9	21.4										
120	20.6	22.3	20.3	21.7	19.8	20.9	19.8	21.6										
125	21.2	23.2	21.1	22.1	20.6	20.9	20.1	21.8										
130	22.3	24.6	22.3	23.3	21.7	21.5	21.0	22.5										
135	22.9	24.8	22.9	24.2	22.7	22.8	21.9	23.7										
140	24.2	25.9	24.3	25.5	24.4	24.9	23.7	26.4										
145	26.1	27.8	26.8	27.8	26.9	27.8	26.3	28.8										
150	28.6	29.8	29.0	30.2	29.6	29.9	29.2	30.5										
155	29.3	29.3	29.8	29.8	29.8	29.2	29.6	29.4										
160	29.0	26.7	29.4	27.0	28.5	26.0	28.5	26.2										
165	27.0	23.3	26.7	23.3	25.3	21.7	24.8	22.0										
170	23.4	20.1	23.4	20.5	22.6	19.9	21.4	18.8										
175	23.1	21.8	23.3	20.5	23.7	22.1	22.0	19.5										
180	25.7	23.9	26.4	21.8	25.7	24.2	26.4	21.7										

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: