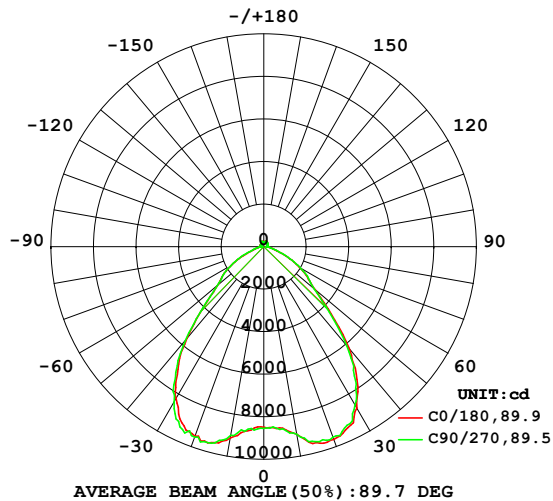


## LUMINAIRE PHOTOMETRIC TEST REPORT

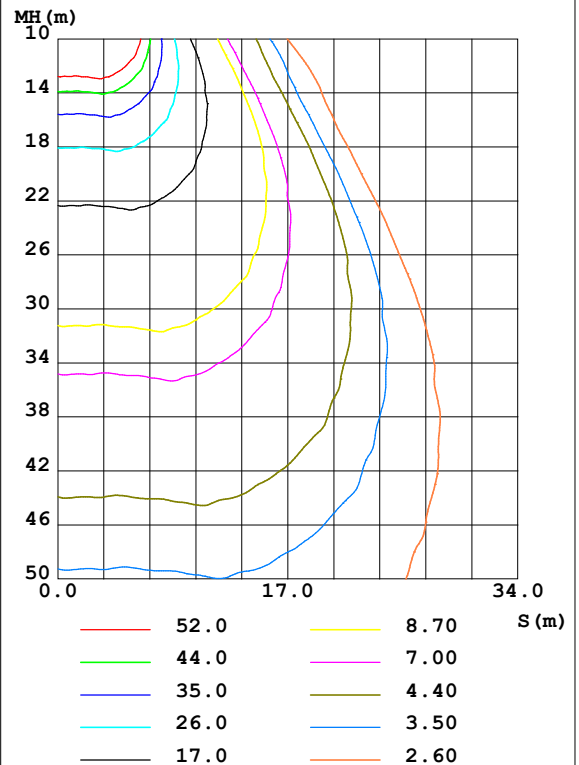
Test:U:120.5V I:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm		
NAME: H17XL-RPC-RDL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.10 lm/W			
MODEL		I <sub>max</sub> (cd)	9702	S/MH(C0/180)	1.26
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	20981	□ UP,DN(C0-180)	2.9,48.3
NOMINAL FLUX(lm)	20981.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.8,46.0
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	8954	9015	8961	9074	9140	9026	9005	9161	0- 10	837.0	837.0	3.99,3.99
20	9645	9550	9534	9652	9482	9392	9523	9584	10- 20	2688	3525	16.8,16.8
30	8761	8713	8591	8501	8248	8472	8437	8411	20- 30	4245	7770	37,37
40	6251	6221	6071	5938	5621	5776	5716	5677	30- 40	4564	12334	58.8,58.8
50	3170	3183	3114	3069	2865	2910	2886	2900	40- 50	3301	15635	74.5,74.5
60	1922	1935	1966	1954	1761	1784	1782	1783	50- 60	2163	17798	84.8,84.8
70	810.1	818.4	839.3	805.9	668.3	719.4	725.4	709.8	60- 70	1286	19084	91,91
80	294.8	304.7	306.9	294.5	252.7	267.3	276.0	265.7	70- 80	506.4	19590	93.4,93.4
90	123.4	123.1	127.7	125.9	123.3	123.8	126.1	125.6	80- 90	198.6	19789	94.3,94.3
100	156.5	154.8	154.4	154.6	161.1	158.6	161.0	162.6	90-100	144.8	19934	95,95
110	178.9	178.1	174.0	178.8	174.2	175.6	174.8	183.5	100-110	178.5	20112	95.9,95.9
120	181.1	197.8	179.5	191.3	178.8	189.1	176.4	189.6	110-120	181.0	20293	96.7,96.7
130	194.8	223.6	199.8	204.0	193.0	194.2	189.2	197.7	120-130	171.2	20464	97.5,97.5
140	213.0	237.9	219.4	222.6	214.1	219.9	212.6	231.8	130-140	161.0	20625	98.3,98.3
150	256.3	267.9	259.9	269.3	262.4	266.4	261.5	277.7	140-150	152.2	20777	99,99
160	265.9	240.6	267.3	240.5	254.4	235.1	257.5	239.2	150-160	122.0	20899	99.6,99.6
170	214.1	182.1	210.1	182.8	198.5	174.0	196.1	175.6	160-170	63.26	20963	99.9,99.9
180	242.8	215.5	240.2	193.7	242.2	213.5	239.6	193.3	170-180	18.47	20981	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 14200 lm

%lum = 67.7%

%lamp = 67.7%

Conical surface Flux(120deg): 17798 lm

%lum = 84.8%

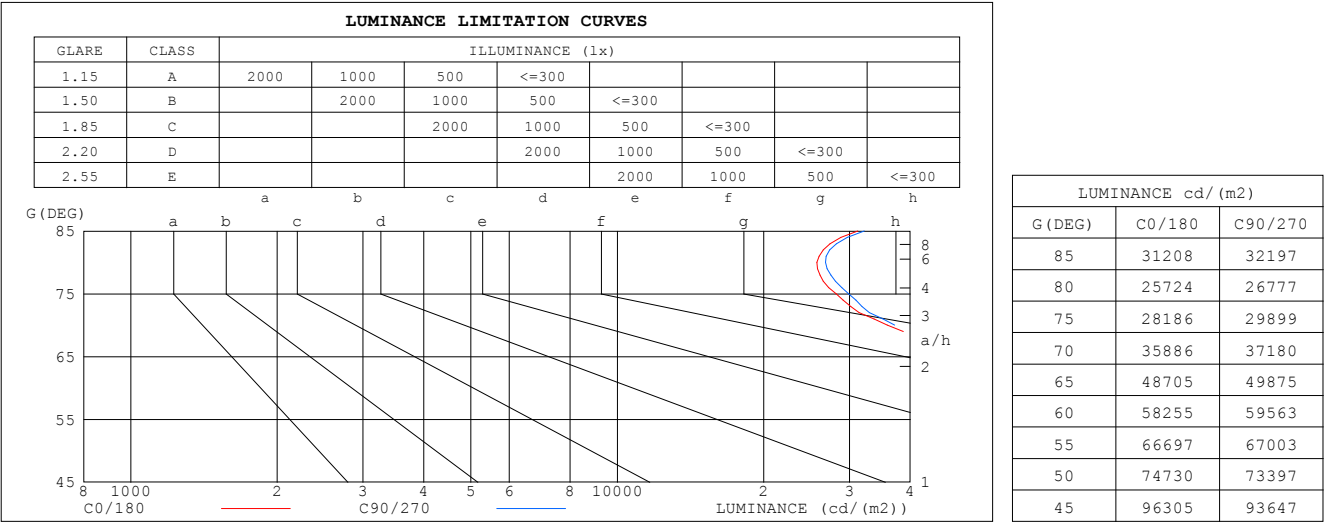
%lamp = 84.8%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm		
NAME: H17XL-RPC-RDL-150W-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:2022-09-01

☐ 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:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm					
NAME: H17XL-RPC-RDL-150W-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	.252	.143	.045	.244	.139	.044	.227	.131	.042	.213	.123	.039	.199	.115	.037	
2.0	.241	.132	.041	.233	.129	.040	.219	.122	.038	.206	.116	.036	.194	.110	.035	
3.0	.227	.121	.036	.220	.118	.036	.208	.113	.034	.196	.107	.033	.185	.103	.032	
4.0	.213	.111	.033	.207	.108	.032	.196	.104	.031	.185	.100	.030	.176	.096	.029	
5.0	.200	.102	.030	.195	.100	.029	.185	.096	.028	.175	.092	.028	.166	.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	.164	.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	.147	.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	.209	.176	.148	.179	.152	.128	.123	.105	.089	.071	.061	.052	.023	.020	.017	
3.0	.200	.158	.125	.172	.136	.108	.118	.095	.076	.068	.055	.045	.022	.018	.015	
4.0	.192	.145	.108	.165	.125	.094	.114	.087	.066	.066	.051	.039	.021	.017	.013	
5.0	.185	.134	.096	.159	.116	.084	.109	.081	.059	.063	.048	.035	.020	.016	.012	
6.0	.178	.125	.088	.153	.109	.076	.106	.076	.054	.061	.045	.032	.020	.015	.011	
7.0	.172	.118	.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	.040	.028	.019	.013	.009	
9.0	.161	.108	.072	.138	.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:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm										
NAME: H17XL-RPC-RDL-150W-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	26.6	27.9	26.9	28.1	28.4	26.6	27.8	26.9	28.1	28.4
3H	27.2	28.3	27.5	28.6	29.0	27.2	28.3	27.5	28.6	29.0
4H	27.3	28.4	27.7	28.7	29.1	27.3	28.4	27.7	28.7	29.1
6H	27.4	28.4	27.8	28.7	29.1	27.4	28.4	27.8	28.8	29.2
8H	27.4	28.4	27.8	28.7	29.1	27.4	28.4	27.9	28.8	29.2
12H	27.4	28.4	27.8	28.7	29.1	27.5	28.4	27.9	28.8	29.2
4H 2H	26.8	27.9	27.2	28.3	28.6	26.8	27.9	27.2	28.3	28.6
3H	27.5	28.5	27.9	28.8	29.2	27.5	28.5	28.0	28.9	29.3
4H	27.7	28.6	28.2	29.0	29.4	27.8	28.6	28.2	29.0	29.5
6H	27.9	28.6	28.4	29.1	29.5	27.9	28.7	28.4	29.1	29.6
8H	27.9	28.6	28.4	29.1	29.6	28.0	28.7	28.5	29.2	29.7
12H	28.0	28.6	28.5	29.1	29.6	28.1	28.7	28.6	29.2	29.7
8H 4H	27.7	28.4	28.2	28.9	29.4	27.8	28.5	28.3	28.9	29.4
6H	28.0	28.6	28.5	29.1	29.6	28.0	28.6	28.6	29.1	29.7
8H	28.1	28.6	28.7	29.1	29.7	28.2	28.7	28.7	29.2	29.8
12H	28.3	28.7	28.8	29.2	29.8	28.3	28.8	28.9	29.3	29.9
12H 4H	27.7	28.3	28.2	28.8	29.3	27.8	28.4	28.3	28.9	29.4
6H	28.0	28.5	28.5	29.0	29.6	28.0	28.5	28.6	29.1	29.6
8H	28.2	28.6	28.7	29.1	29.7	28.2	28.6	28.8	29.2	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.6				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 20981 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 10.6$ )

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:

## UTILIZATION FACTORS TABLE

Test:U:120.5V I:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm		
NAME: H17XL-RPC-RDL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

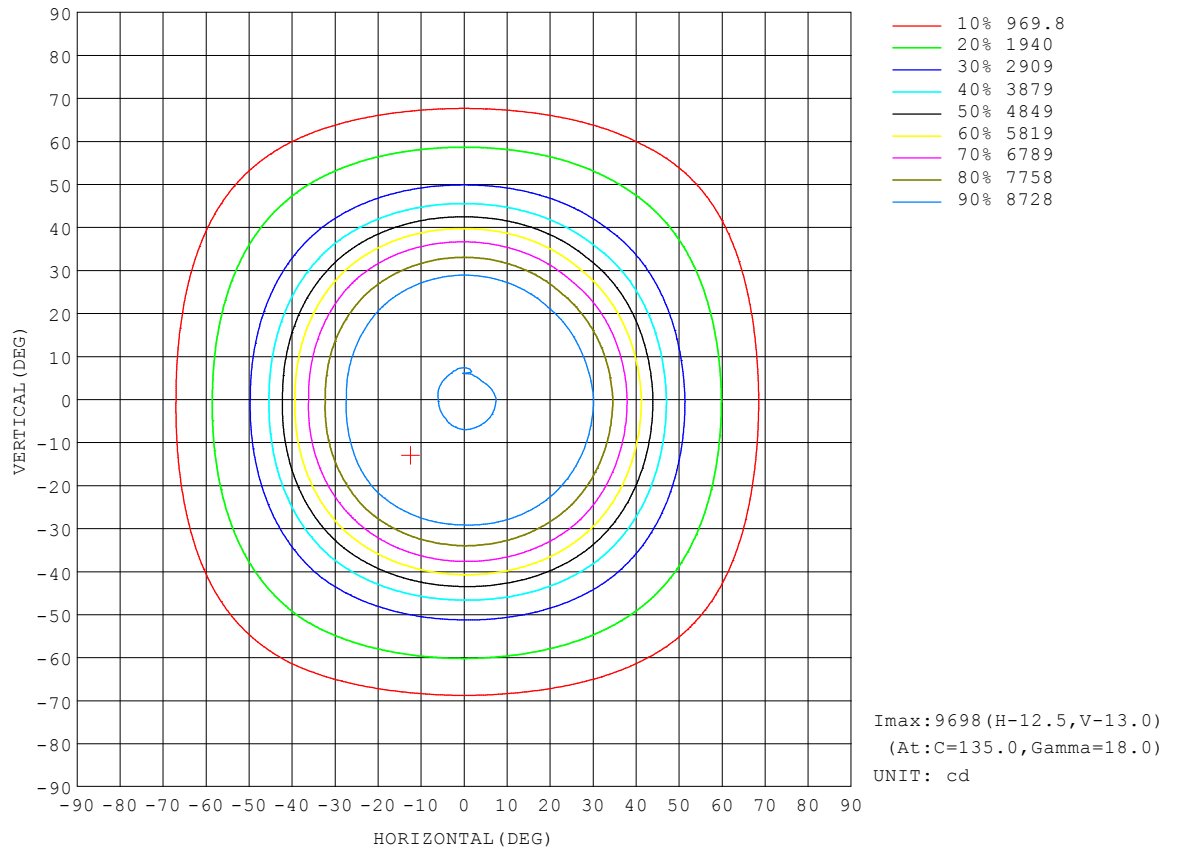
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	50	44
0.80	75	66	60	74	65	59	72	64	59	53
1.00	83	74	68	81	73	67	79	73	66	60
1.25	89	80	75	87	80	74	84	78	73	66
1.50	93	85	80	91	84	79	88	82	77	70
2.00	99	92	87	97	90	86	93	88	83	76
2.50	102	95	91	99	94	89	95	91	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:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm		
NAME: H17XL-RPC-RDL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

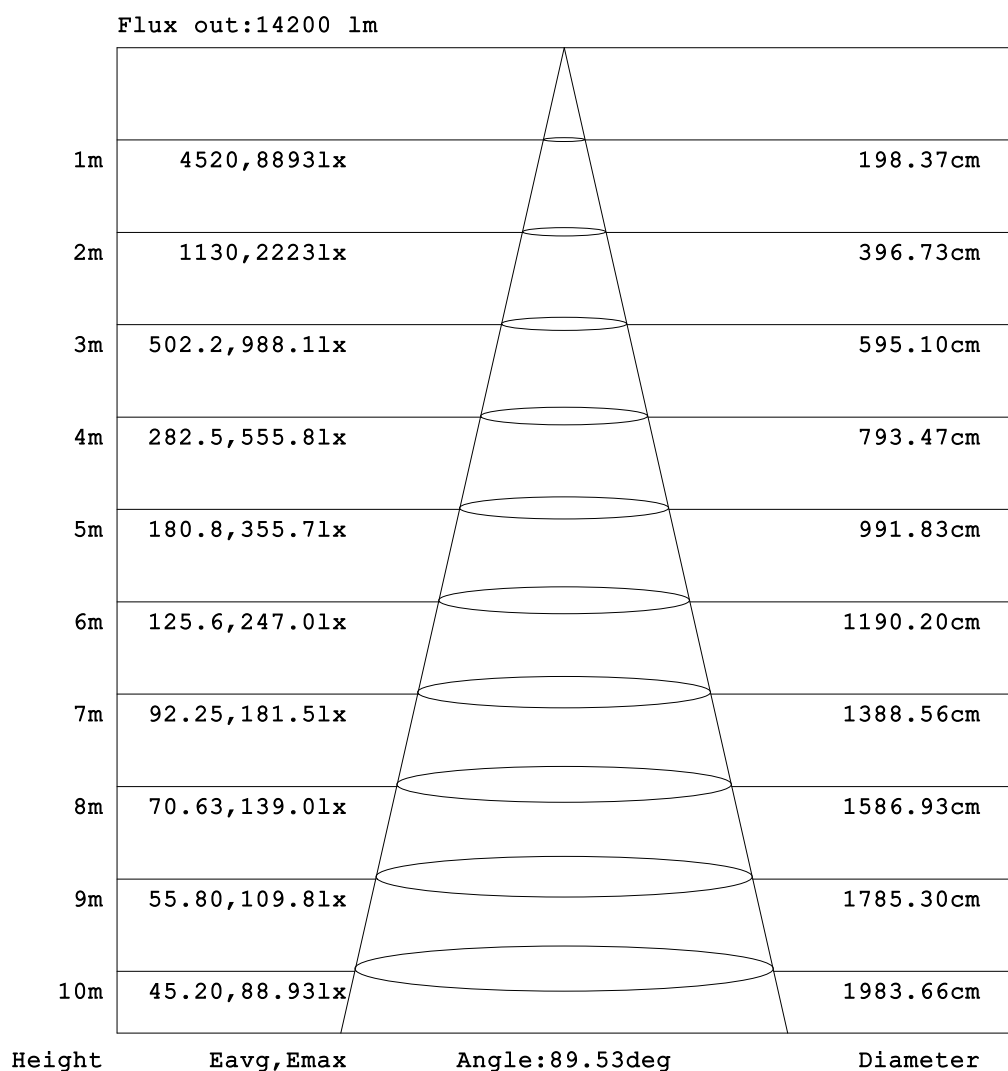


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-09-01

☐ 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:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm		
NAME: H17XL-RPC-RDL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



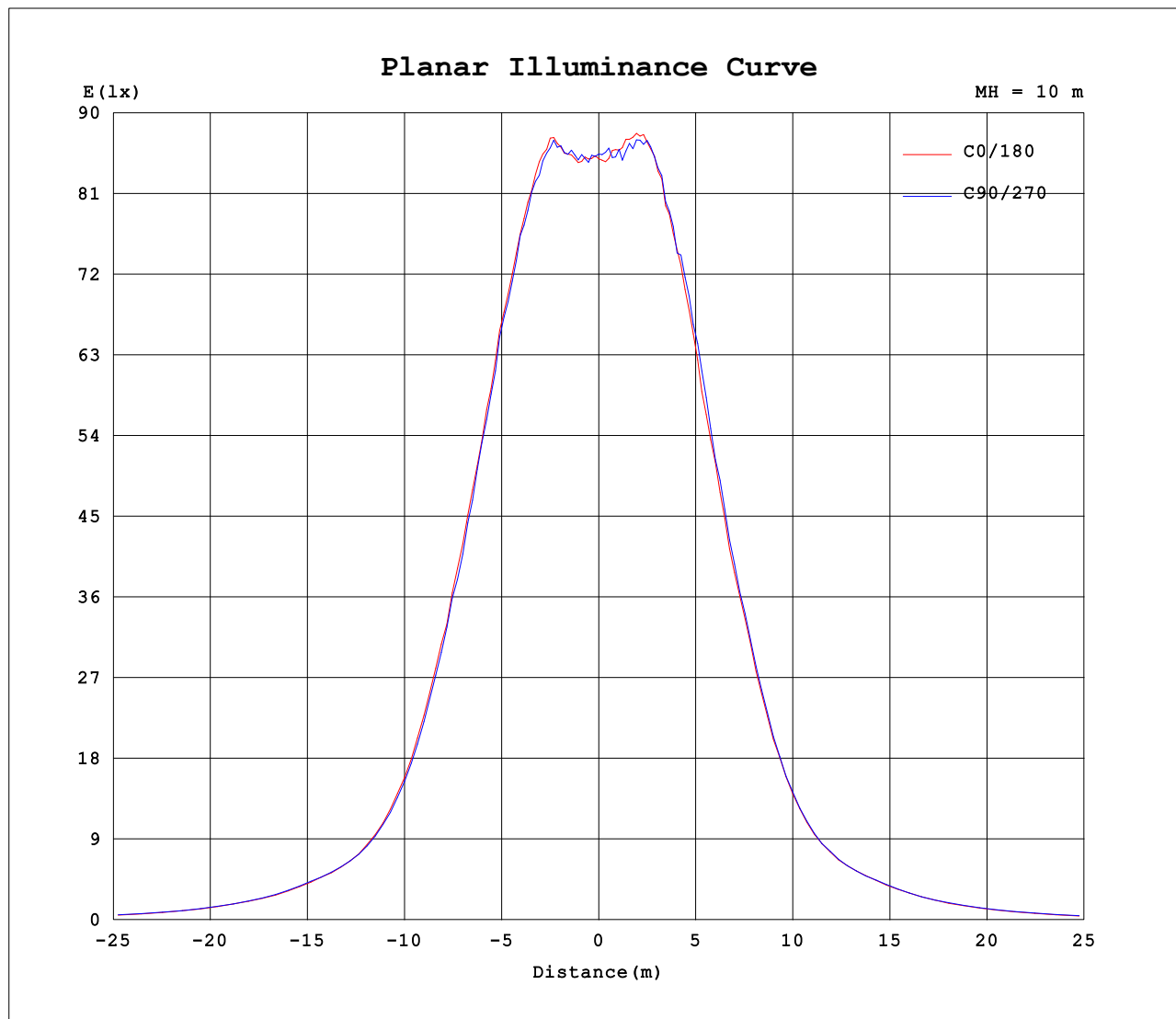
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

☐ 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:1.282A P:154.2W PF:0.9980 Freq:59.98Hz Lamp Flux:20981.2x1 lm								
NAME: H17XL-RPC-RDL-150W-3K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB LIGHTING INC					SUR.:0.29*0.29m			Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8489	8521	8543	8554	8489	8521	8543	8554										
5	8557	8664	8632	8671	8691	8622	8608	8630										
10	8954	9015	8961	9074	9140	9026	9005	9161										
15	9536	9459	9489	9594	9543	9555	9568	9676										
20	9645	9550	9534	9652	9482	9392	9523	9584										
25	9378	9333	9263	9359	9131	9216	9344	9310										
30	8761	8713	8591	8501	8248	8472	8437	8411										
35	7634	7665	7424	7364	7049	7267	7224	7146										
40	6251	6221	6071	5938	5621	5776	5716	5677										
45	4494	4484	4370	4301	3977	4025	4036	4007										
50	3170	3183	3114	3069	2865	2910	2886	2900										
55	2525	2588	2536	2494	2344	2352	2349	2372										
60	1922	1935	1966	1954	1761	1784	1782	1783										
65	1359	1379	1391	1383	1198	1230	1250	1235										
70	810	818	839	806	668	719	725	710										
75	481	501	511	486	410	435	445	433										
80	295	305	307	295	253	267	276	266										
85	180	180	185	183	158	165	169	162										
90	123	123	128	126	123	124	126	126										
95	124	122	124	124	129	127	128	128										
100	156	155	154	155	161	159	161	163										
105	171	168	168	167	169	167	171	172										
110	179	178	174	179	174	176	175	184										
115	182	189	176	187	176	183	175	190										
120	181	198	179	191	179	189	176	190										
125	185	209	188	192	185	190	182	191										
130	195	224	200	204	193	194	189	198										
135	201	226	206	212	200	202	197	209										
140	213	238	219	223	214	220	213	232										
145	234	252	238	243	238	244	233	259										
150	256	268	260	269	262	266	261	278										
155	267	264	266	266	265	263	266	269										
160	266	241	267	241	254	235	258	239										
165	246	208	239	208	226	197	223	206										
170	214	182	210	183	199	174	196	176										
175	215	197	207	181	214	195	199	189										
180	243	216	240	194	242	214	240	193										

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: