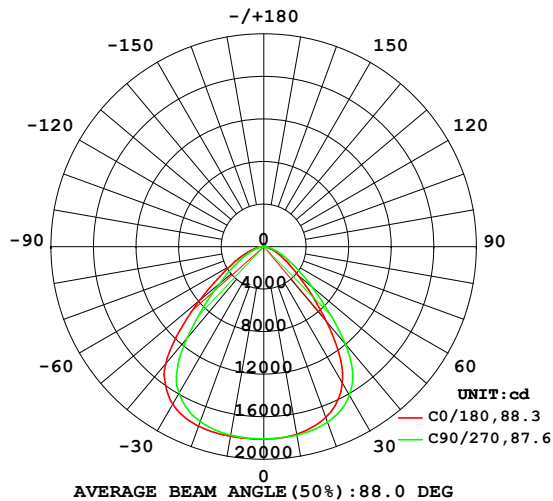


## LUMINAIRE PHOTOMETRIC TEST REPORT

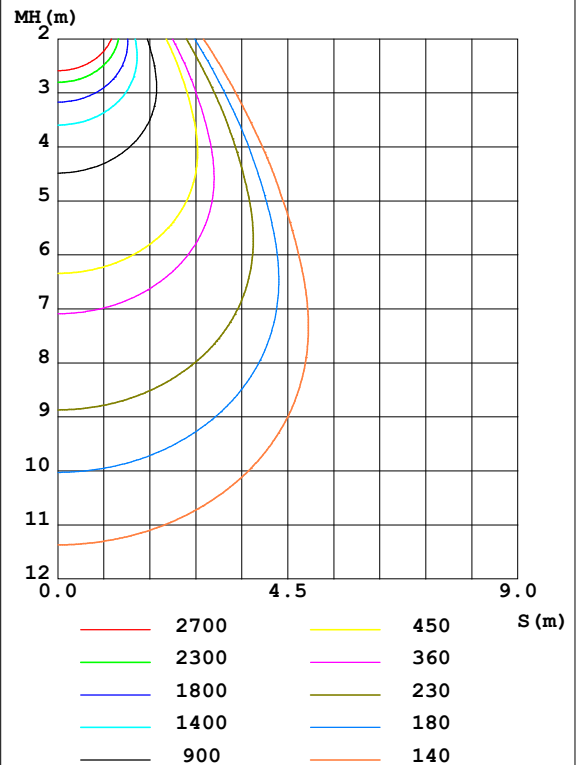
Test:U:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm					
NAME: H17XL-240W-5K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: RAB LIGHTING INC		SUR.:0.23m		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 153.55 lm/W
MODEL		Imax(cd)	18107	S/MH(C0/180)	1.36	
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	36978	□ UP,DN(C0-180)	0.5,48.3	
NOMINAL FLUX(lm)	36978.3	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,50.7	
LAMPS INSIDE	1	□ up(%)	1.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	□ down(%)	99.0	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:2022-08-30

□ 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:

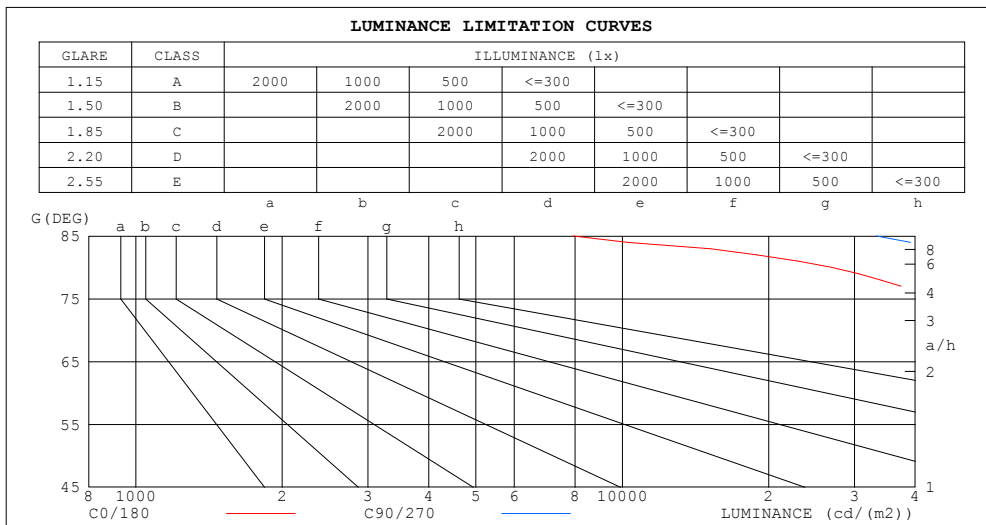
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1790	1792	1799	1803	1810	1809	1800	1787	0- 10	1721	1721	4.65,4.65
20	1708	1720	1755	1784	1796	1785	1749	1708	10- 20	5038	6759	18.3,18.3
30	1477	1533	1612	1691	1712	1684	1590	1477	20- 30	7786	14546	39.3,39.3
40	916.7	995.9	1191	1403	1435	1354	1125	910.4	30- 40	8824	23370	63.2,63.2
50	427.1	477.7	597.2	767.2	789.2	724.7	548.8	437.0	40- 50	6644	30014	81.2,81.2
60	200.9	220.0	288.0	360.1	367.5	335.0	267.9	202.4	50- 60	3731	33744	91.3,91.3
70	85.56	93.07	130.7	162.0	170.0	147.2	116.6	85.66	60- 70	1910	35654	96.4,96.4
80	19.43	23.29	40.81	55.41	59.89	49.51	34.42	19.37	70- 80	811.1	36466	98.6,98.6
90	1.921	1.811	1.627	2.103	3.545	2.425	1.443	1.699	80- 90	155.9	36621	99,99
100	2.355	2.173	1.811	1.627	1.458	1.551	1.830	2.209	90-100	18.49	36640	99.1,99.1
110	3.814	3.614	3.082	2.622	2.527	2.642	3.128	3.657	100-110	25.98	36666	99.2,99.2
120	5.608	5.382	4.765	4.166	4.099	4.242	4.846	5.475	110-120	39.10	36705	99.3,99.3
130	7.530	7.272	6.654	5.986	6.030	6.148	6.830	7.461	120-130	51.57	36757	99.4,99.4
140	9.258	9.099	8.516	7.853	8.112	8.203	8.890	9.440	130-140	59.52	36816	99.6,99.6
150	10.88	10.75	10.20	9.602	10.00	10.10	10.71	11.20	140-150	59.83	36876	99.7,99.7
160	12.67	12.43	11.97	11.33	11.86	11.90	12.48	12.90	150-160	52.06	36928	99.9,99.9
170	14.20	13.93	13.67	13.16	13.69	13.62	14.03	14.21	160-170	36.73	36965	100,100
180	14.75	14.56	14.64	14.46	14.76	14.55	14.65	14.46	170-180	13.54	36978	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-30

□ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm		
NAME: H17XL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7926	33288
80	26967	56633
75	44103	74305
70	60280	92065
65	77043	112285
60	96815	138801
55	123111	174222
50	160104	223881
45	216482	292290

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm					
NAME: H17XL-240W-5K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23m		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	.241	.137	.043	.233	.133	.042	.220	.126	.040	.208	.120	.038	.196	.114	.037	
2.0	.233	.128	.039	.227	.125	.038	.215	.120	.037	.204	.115	.036	.194	.110	.035	
3.0	.221	.118	.035	.216	.116	.035	.205	.111	.034	.196	.107	.033	.187	.104	.032	
4.0	.209	.108	.032	.204	.107	.032	.195	.103	.031	.186	.100	.030	.179	.097	.030	
5.0	.197	.100	.029	.192	.099	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.182	.092	.026	.174	.089	.026	.168	.087	.026	.162	.085	.025	
7.0	.175	.087	.025	.172	.086	.024	.165	.084	.024	.159	.082	.024	.154	.080	.023	
8.0	.165	.081	.023	.162	.080	.023	.157	.078	.022	.151	.077	.022	.146	.075	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.071	.020	.146	.071	.020	.142	.069	.020	.137	.068	.019	.133	.067	.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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.183	.164	.147	.157	.141	.127	.107	.097	.088	.062	.056	.051	.020	.018	.016	
2.0	.172	.140	.113	.147	.120	.097	.101	.083	.068	.058	.048	.040	.019	.016	.013	
3.0	.163	.121	.089	.139	.105	.077	.096	.073	.054	.055	.043	.032	.018	.014	.010	
4.0	.154	.108	.072	.132	.093	.062	.091	.065	.044	.053	.038	.026	.017	.012	.009	
5.0	.147	.097	.060	.126	.084	.052	.087	.059	.037	.050	.034	.022	.016	.011	.007	
6.0	.140	.088	.051	.121	.076	.044	.083	.053	.031	.048	.031	.019	.016	.010	.006	
7.0	.134	.081	.044	.115	.070	.038	.080	.049	.027	.046	.029	.016	.015	.010	.005	
8.0	.128	.075	.039	.110	.065	.034	.076	.046	.024	.044	.027	.014	.014	.009	.005	
9.0	.123	.070	.035	.106	.061	.030	.073	.043	.022	.043	.025	.013	.014	.008	.004	
10.0	.118	.066	.032	.102	.057	.028	.070	.040	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-30

☐ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm											
NAME: H17XL-240W-5K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: RAB LIGHTING INC					SUR.:0.23m			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	28.4	29.7	28.6	29.9	30.1	29.6	30.8	29.8	31.1	31.3	
	3H	28.7	29.8	29.0	30.1	30.3	30.0	31.2	30.3	31.4	31.6
	4H	28.7	29.8	29.0	30.1	30.3	30.1	31.2	30.4	31.5	31.8
	6H	28.7	29.7	29.0	30.0	30.3	30.2	31.2	30.5	31.5	31.8
	8H	28.7	29.7	29.0	29.9	30.2	30.2	31.2	30.5	31.5	31.8
	12H	28.6	29.6	29.0	29.9	30.2	30.2	31.1	30.5	31.4	31.7
4H	2H	28.5	29.6	28.8	29.9	30.1	29.6	30.7	29.9	30.9	31.2
	3H	28.9	29.9	29.3	30.2	30.5	30.1	31.1	30.5	31.4	31.7
	4H	29.0	29.9	29.4	30.2	30.6	30.3	31.2	30.7	31.5	31.9
	6H	29.0	29.8	29.4	30.2	30.5	30.4	31.2	30.8	31.6	31.9
	8H	29.0	29.7	29.4	30.1	30.5	30.5	31.2	30.9	31.5	31.9
	12H	29.0	29.6	29.4	30.0	30.4	30.4	31.1	30.9	31.5	31.9
8H	4H	29.0	29.7	29.4	30.1	30.5	30.3	31.0	30.7	31.4	31.8
	6H	29.1	29.7	29.5	30.1	30.5	30.4	31.0	30.9	31.4	31.9
	8H	29.1	29.6	29.5	30.0	30.5	30.5	31.0	30.9	31.4	31.9
	12H	29.0	29.5	29.5	29.9	30.4	30.5	30.9	31.0	31.4	31.9
12H	4H	29.0	29.6	29.4	30.0	30.4	30.2	30.9	30.7	31.3	31.7
	6H	29.1	29.6	29.5	30.0	30.5	30.4	30.9	30.9	31.4	31.8
	8H	29.0	29.5	29.5	29.9	30.4	30.4	30.9	30.9	31.3	31.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.1					
1.5H	+ 1.3 / - 1.1					+ 1.2 / - 1.1					
2.0H	+ 2.1 / - 1.6					+ 2.4 / - 1.8					

CIE Pub.117, 36978 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.5$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-30

☐ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm		
NAME: H17XL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

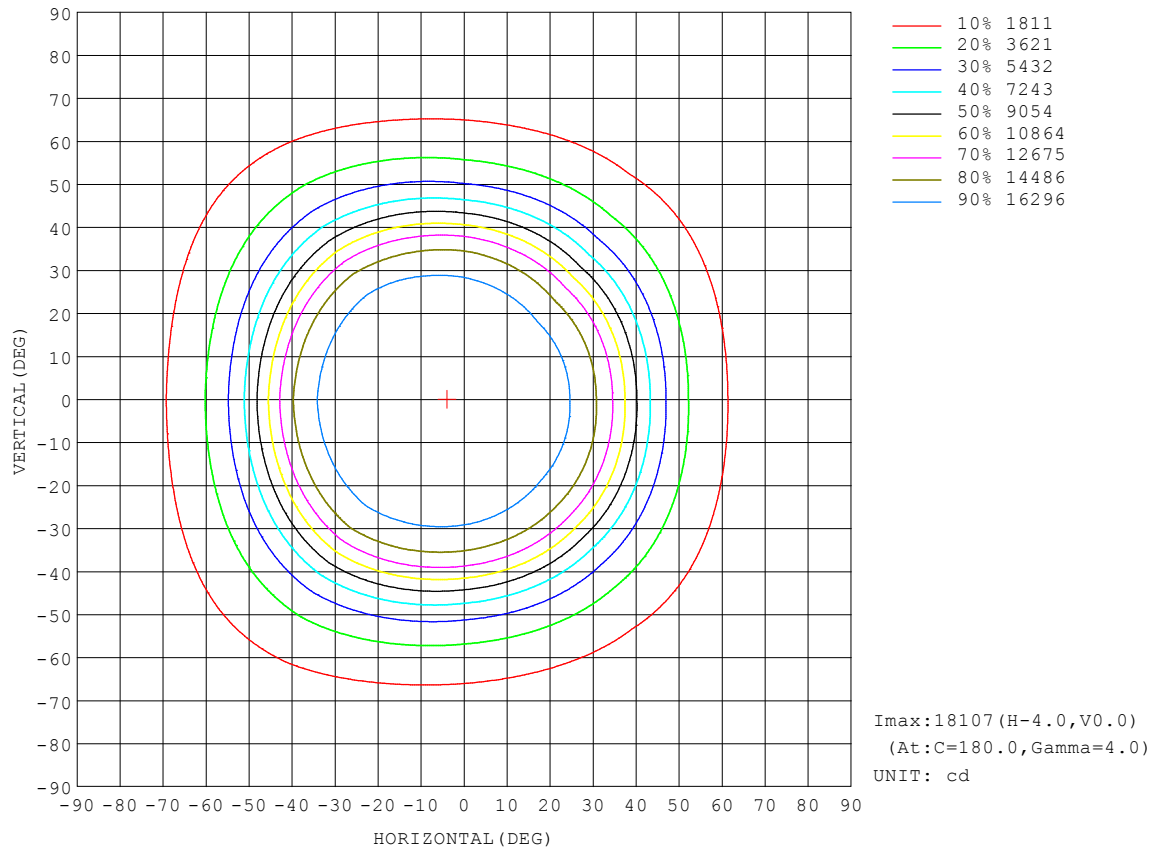
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	59	53	68	58	53	67	58	53	47
0.80	78	69	63	77	68	63	76	68	62	57
1.00	86	77	71	85	76	71	83	77	70	65
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	89	83	95	88	83	92	86	82	75
2.00	101	95	90	100	94	89	96	91	88	81
2.50	104	98	94	102	97	93	99	94	91	83
3.00	107	102	97	105	100	96	101	97	94	86
4.00	110	105	102	107	104	100	103	100	98	89
5.00	111	108	105	109	106	103	105	102	100	91
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: 2022-08-30

☐ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm		
NAME: H17XL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

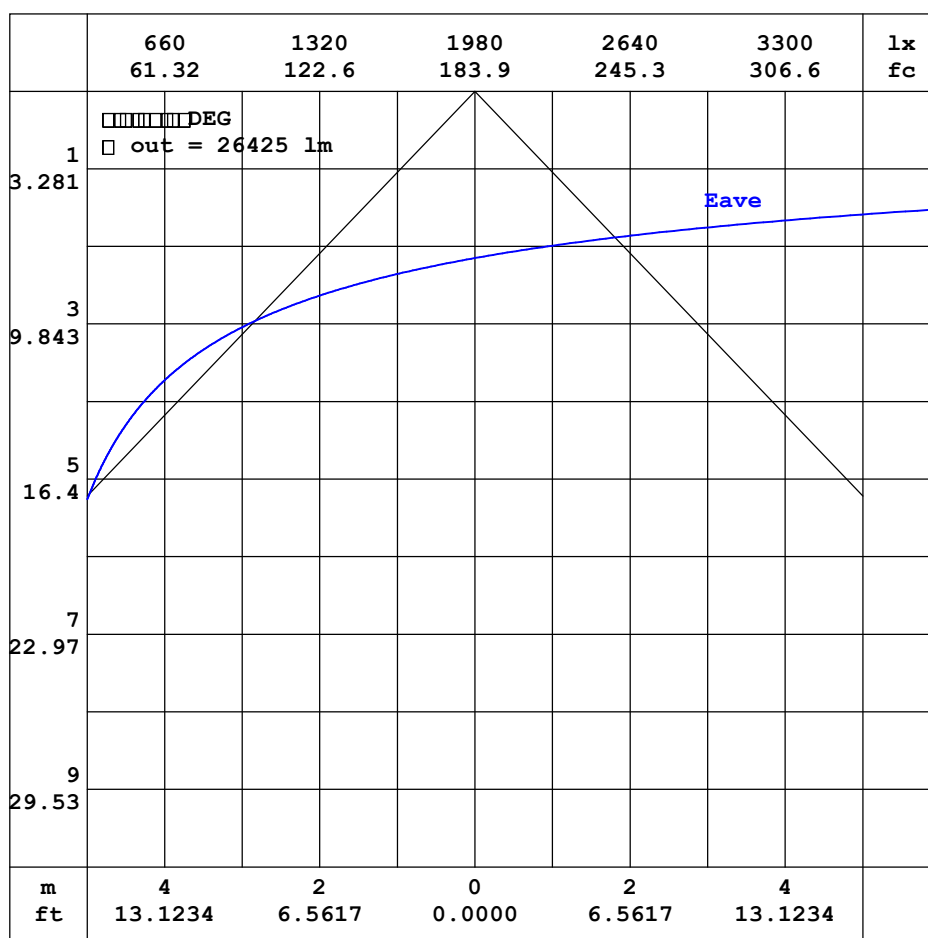


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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 CURVES

Test:U:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm		
NAME: H17XL-240W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



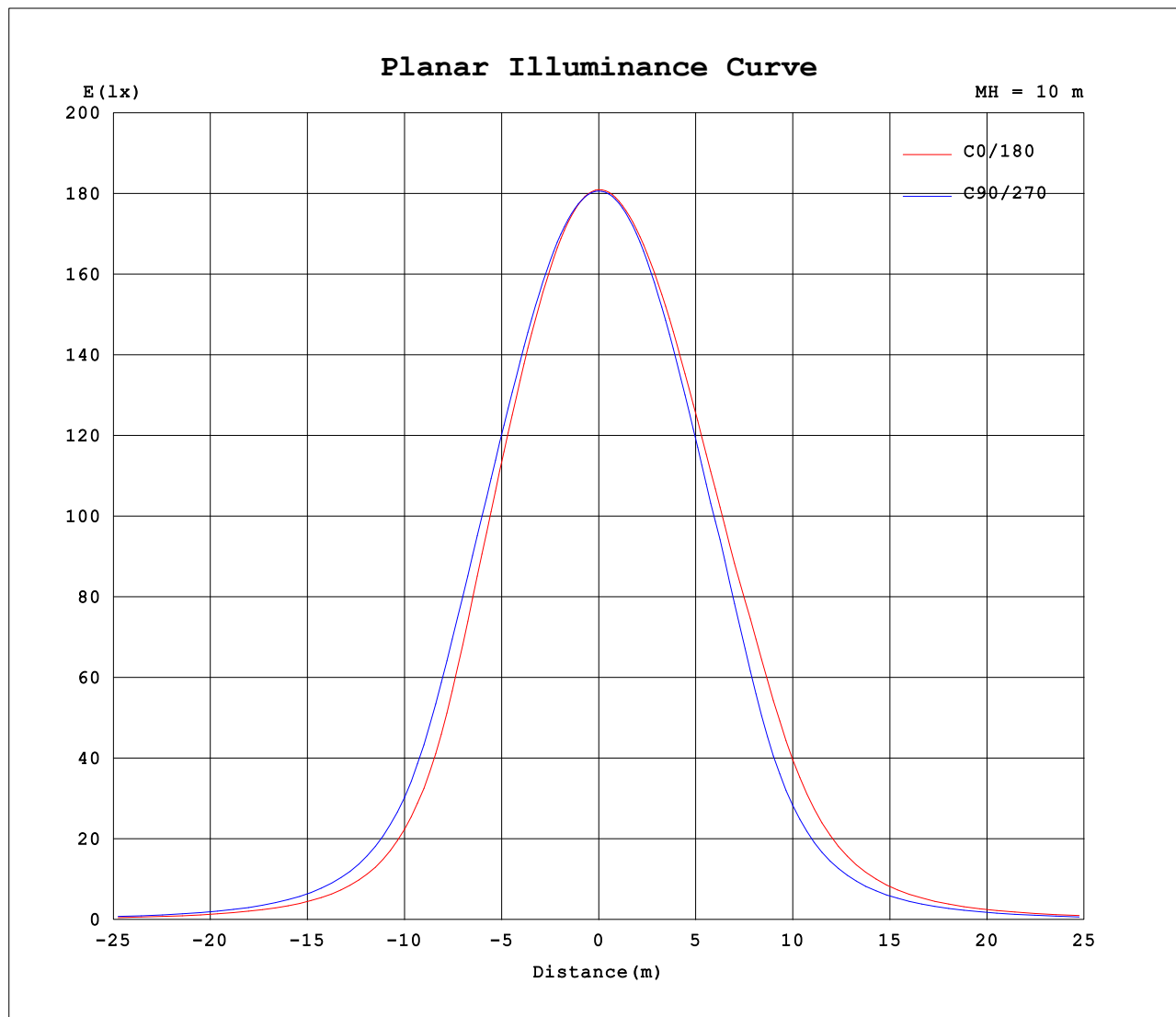
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Marvin Ma  
 Test Date: 2022-08-30

☐ 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: 2022-08-30

☐ 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:121.9V I:1.982A P:240.8W PF:0.9968 Freq:59.98Hz Lamp Flux:36978.3x1 lm								
NAME: H17XL-240W-5K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB LIGHTING INC					SUR.:0.23m			Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1810	1808	1806	1805	1810	1808	1806	1805										
5	1804	1804	1804	1805	1811	1809	1806	1801										
10	1790	1792	1799	1803	1810	1809	1800	1787										
15	1759	1765	1785	1798	1807	1802	1783	1758										
20	1708	1720	1755	1784	1796	1785	1749	1708										
25	1621	1644	1703	1751	1767	1750	1691	1621										
30	1477	1533	1612	1691	1712	1684	1590	1477										
35	1241	1318	1458	1584	1608	1567	1426	1239										
40	917	996	1191	1403	1435	1354	1125	910										
45	635	694	858	1087	1122	1027	802	637										
50	427	478	597	767	789	725	549	437										
55	293	327	415	526	535	496	380	299										
60	201	220	288	360	367	335	268	202										
65	135	146	197	244	253	222	180	136										
70	85.6	93.1	131	162	170	147	117	85.7										
75	47.4	53.3	79.8	103	107	92.8	69.8	47.8										
80	19.4	23.3	40.8	55.4	59.9	49.5	34.4	19.4										
85	2.87	3.84	12.0	18.4	24.8	16.6	8.12	2.37										
90	1.92	1.81	1.63	2.10	3.55	2.43	1.44	1.70										
95	1.79	1.72	1.49	1.63	1.44	1.58	1.41	1.68										
100	2.36	2.17	1.81	1.63	1.46	1.55	1.83	2.21										
105	3.06	2.84	2.38	2.01	1.92	2.01	2.42	2.88										
110	3.81	3.61	3.08	2.62	2.53	2.64	3.13	3.66										
115	4.67	4.47	3.88	3.34	3.26	3.39	3.94	4.52										
120	5.61	5.38	4.77	4.17	4.10	4.24	4.85	5.47										
125	6.57	6.33	5.70	5.06	5.02	5.16	5.81	6.44										
130	7.53	7.27	6.65	5.99	6.03	6.15	6.83	7.46										
135	8.43	8.20	7.61	6.92	7.07	7.16	7.87	8.46										
140	9.26	9.10	8.52	7.85	8.11	8.20	8.89	9.44										
145	10.1	9.94	9.37	8.76	9.08	9.18	9.80	10.3										
150	10.9	10.7	10.2	9.60	10.0	10.1	10.7	11.2										
155	11.8	11.6	11.1	10.4	10.9	11.0	11.6	12.1										
160	12.7	12.4	12.0	11.3	11.9	11.9	12.5	12.9										
165	13.5	13.2	12.9	12.3	12.8	12.8	13.3	13.7										
170	14.2	13.9	13.7	13.2	13.7	13.6	14.0	14.2										
175	14.7	14.4	14.3	13.9	14.4	14.2	14.5	14.5										
180	14.8	14.6	14.6	14.5	14.8	14.5	14.7	14.5										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-30

□ 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: