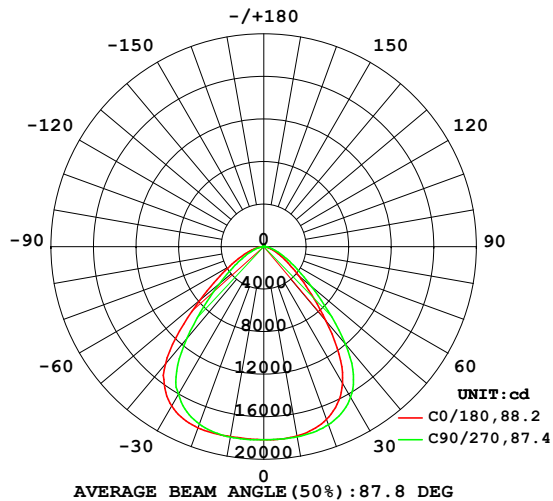


## LUMINAIRE PHOTOMETRIC TEST REPORT

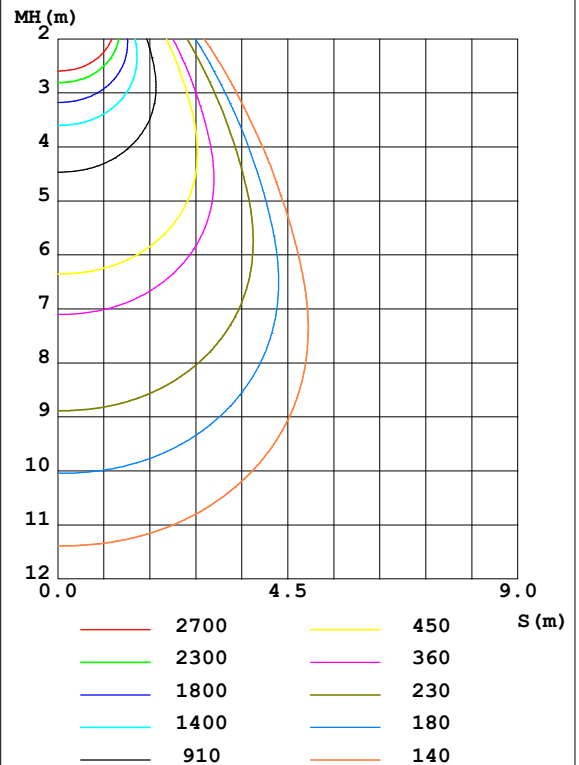
Test:U:121.9V I:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm		
NAME: H17XL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.90 lm/W			
MODEL		Imax(cd)	18185	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)	37169	□ UP,DN(C0-180)	0.5,48.4
NOMINAL FLUX(lm)	37169.5	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:

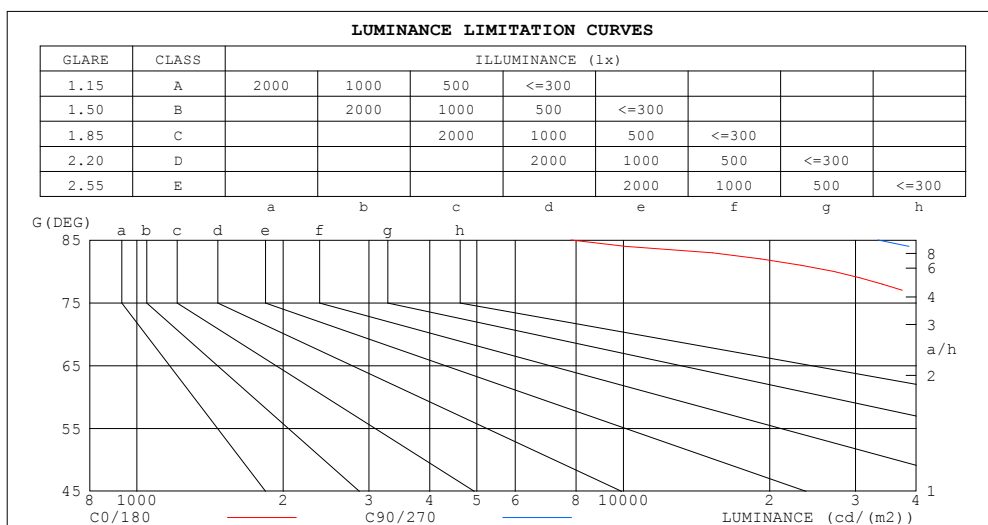
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1808	1811	1815	1815	1813	1818	1818	1811	0- 10	1733	1733	4.66,4.66
20	1727	1743	1780	1808	1812	1806	1775	1733	10- 20	5094	6827	18.4,18.4
30	1482	1546	1634	1719	1732	1706	1605	1487	20- 30	7882	14708	39.6,39.6
40	911.4	993.0	1194	1410	1441	1354	1124	909.7	30- 40	8873	23581	63.4,63.4
50	436.1	471.4	592.2	766.6	787.2	718.8	548.1	433.2	40- 50	6630	30211	81.3,81.3
60	202.0	222.2	282.7	360.7	371.2	337.2	256.9	204.7	50- 60	3718	33929	91.3,91.3
70	84.80	95.02	127.8	165.7	168.4	155.3	109.4	86.67	60- 70	1911	35841	96.4,96.4
80	19.48	24.20	40.20	57.50	59.14	50.98	32.51	19.34	70- 80	813.0	36654	98.6,98.6
90	1.906	1.801	1.600	2.123	3.634	2.373	1.445	1.703	80- 90	156.6	36810	99,99
100	2.354	2.174	1.816	1.626	1.455	1.553	1.837	2.220	90-100	18.49	36829	99.1,99.1
110	3.819	3.621	3.092	2.624	2.526	2.652	3.143	3.681	100-110	26.04	36855	99.2,99.2
120	5.626	5.399	4.788	4.175	4.107	4.263	4.881	5.524	110-120	39.24	36894	99.3,99.3
130	7.570	7.308	6.694	6.013	6.053	6.193	6.893	7.536	120-130	51.86	36946	99.4,99.4
140	9.312	9.157	8.582	7.906	8.159	8.273	8.974	9.547	130-140	59.95	37006	99.6,99.6
150	10.95	10.82	10.29	9.681	10.07	10.20	10.81	11.33	140-150	60.32	37066	99.7,99.7
160	12.76	12.53	12.08	11.44	11.95	12.01	12.60	13.04	150-160	52.52	37119	99.9,99.9
170	14.32	14.05	13.81	13.29	13.79	13.74	14.17	14.37	160-170	37.07	37156	100,100
180	14.88	14.69	14.80	14.61	14.88	14.69	14.80	14.62	170-180	13.67	37169	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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm		
NAME: H17XL-240W-4K	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	7809	33369
80	27026	55786
75	43985	72427
70	59744	90074
65	76625	110172
60	97338	136242
55	125605	171160
50	163496	221991
45	216861	292701

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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm					
NAME: H17XL-240W-4K			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	.240	.137	.043	.233	.133	.042	.220	.126	.040	.207	.120	.038	.196	.114	.037	
2.0	.233	.127	.039	.226	.125	.038	.215	.119	.037	.204	.114	.036	.194	.110	.035	
3.0	.221	.117	.035	.215	.115	.035	.205	.111	.034	.196	.107	.033	.187	.103	.032	
4.0	.208	.108	.032	.204	.107	.031	.195	.103	.031	.186	.100	.030	.178	.097	.030	
5.0	.196	.100	.029	.192	.099	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.181	.092	.026	.174	.089	.026	.167	.087	.026	.161	.085	.025	
7.0	.175	.086	.024	.171	.085	.024	.165	.083	.024	.159	.081	.024	.153	.080	.023	
8.0	.165	.081	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022	.146	.075	.022	
9.0	.156	.076	.021	.154	.075	.021	.149	.073	.021	.144	.072	.021	.139	.071	.020	
10.0	.149	.071	.020	.146	.071	.020	.141	.069	.019	.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	.063	.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	.120	.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	.101	.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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm											
NAME: H17XL-240W-4K					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	2H	28.4	29.7	28.6	29.9	30.1	29.5	30.8	29.8	31.0	31.2
	3H	28.7	29.8	29.0	30.1	30.3	29.9	31.1	30.2	31.3	31.6
	4H	28.7	29.8	29.0	30.1	30.3	30.1	31.2	30.4	31.4	31.7
	6H	28.7	29.7	29.0	30.0	30.3	30.1	31.2	30.4	31.4	31.7
	8H	28.7	29.7	29.0	29.9	30.2	30.1	31.1	30.5	31.4	31.7
	12H	28.6	29.6	29.0	29.9	30.2	30.1	31.0	30.4	31.3	31.7
4H	2H	28.5	29.6	28.8	29.9	30.1	29.5	30.6	29.8	30.9	31.1
	3H	28.9	29.9	29.3	30.2	30.5	30.1	31.0	30.4	31.3	31.6
	4H	29.0	29.9	29.4	30.2	30.6	30.3	31.1	30.6	31.5	31.8
	6H	29.0	29.8	29.4	30.2	30.5	30.4	31.1	30.8	31.5	31.9
	8H	29.0	29.7	29.4	30.1	30.5	30.4	31.1	30.8	31.5	31.9
	12H	29.0	29.6	29.4	30.0	30.4	30.4	31.0	30.8	31.4	31.8
8H	4H	29.0	29.7	29.4	30.1	30.5	30.2	30.9	30.6	31.3	31.7
	6H	29.1	29.7	29.5	30.1	30.5	30.4	31.0	30.8	31.4	31.8
	8H	29.1	29.6	29.5	30.0	30.5	30.4	30.9	30.9	31.4	31.8
	12H	29.0	29.5	29.5	29.9	30.4	30.4	30.9	30.9	31.3	31.8
12H	4H	29.0	29.6	29.4	30.0	30.5	30.2	30.8	30.6	31.2	31.6
	6H	29.1	29.6	29.5	30.0	30.5	30.3	30.9	30.8	31.3	31.8
	8H	29.1	29.5	29.5	29.9	30.4	30.4	30.8	30.9	31.3	31.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.2					
1.5H	+ 1.2 / - 1.0					+ 1.3 / - 1.1					
2.0H	+ 2.0 / - 1.6					+ 2.4 / - 1.8					

CIE Pub.117, 37169 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.6$ )

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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm		
NAME: H17XL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

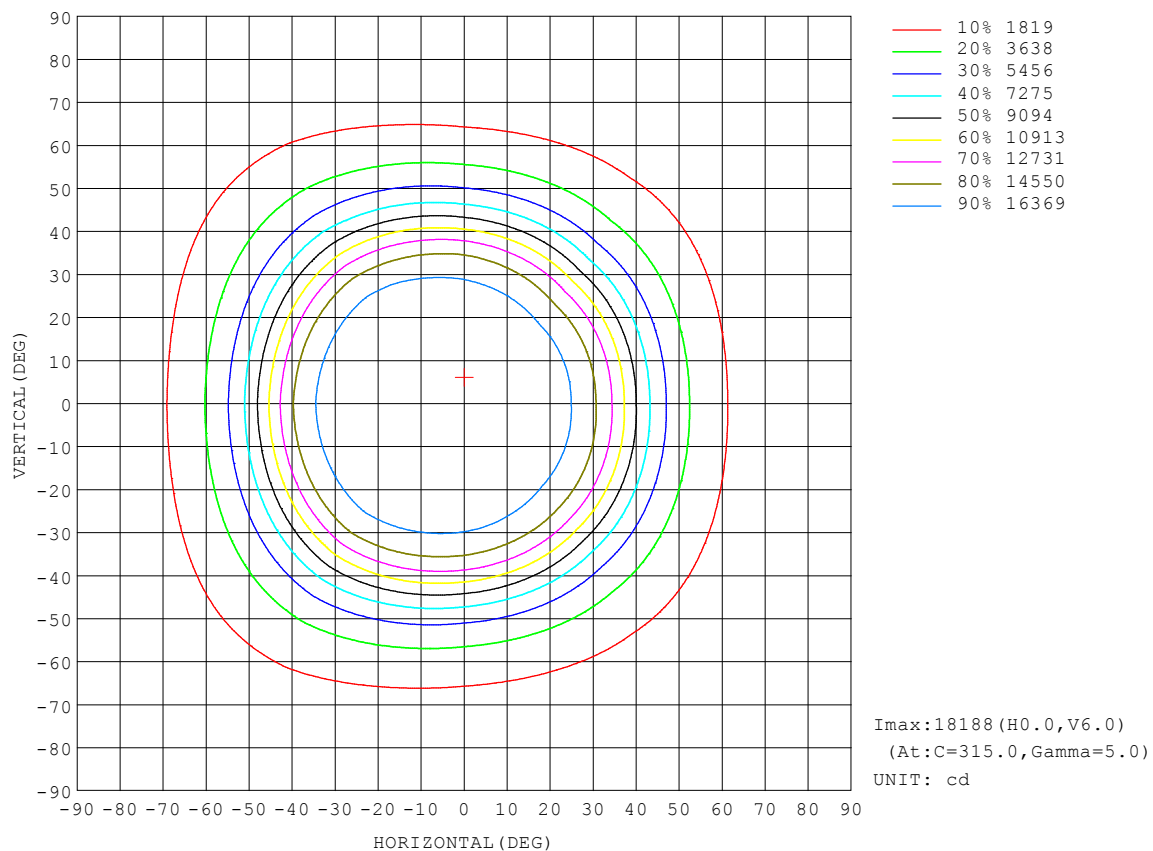
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	59	53	68	59	53	67	58	53	47
0.80	78	69	63	77	68	63	76	68	62	57
1.00	86	77	71	85	77	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	92	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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm		
NAME: H17XL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

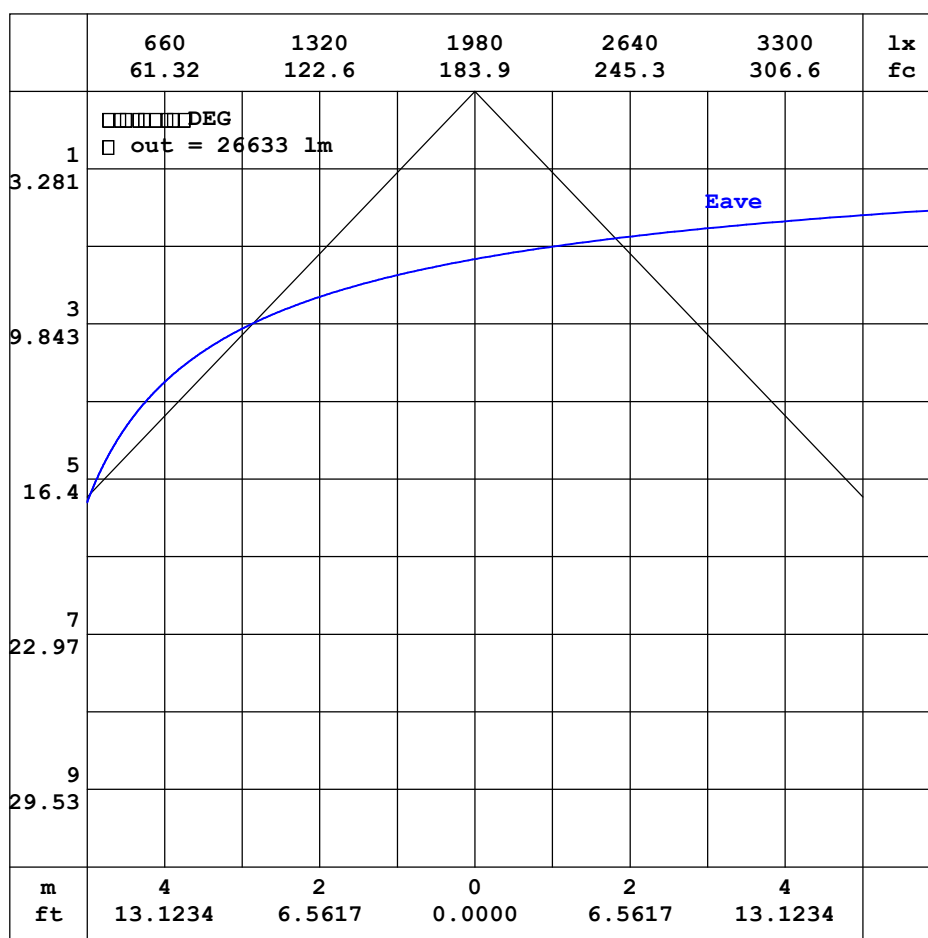


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm		
NAME: H17XL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



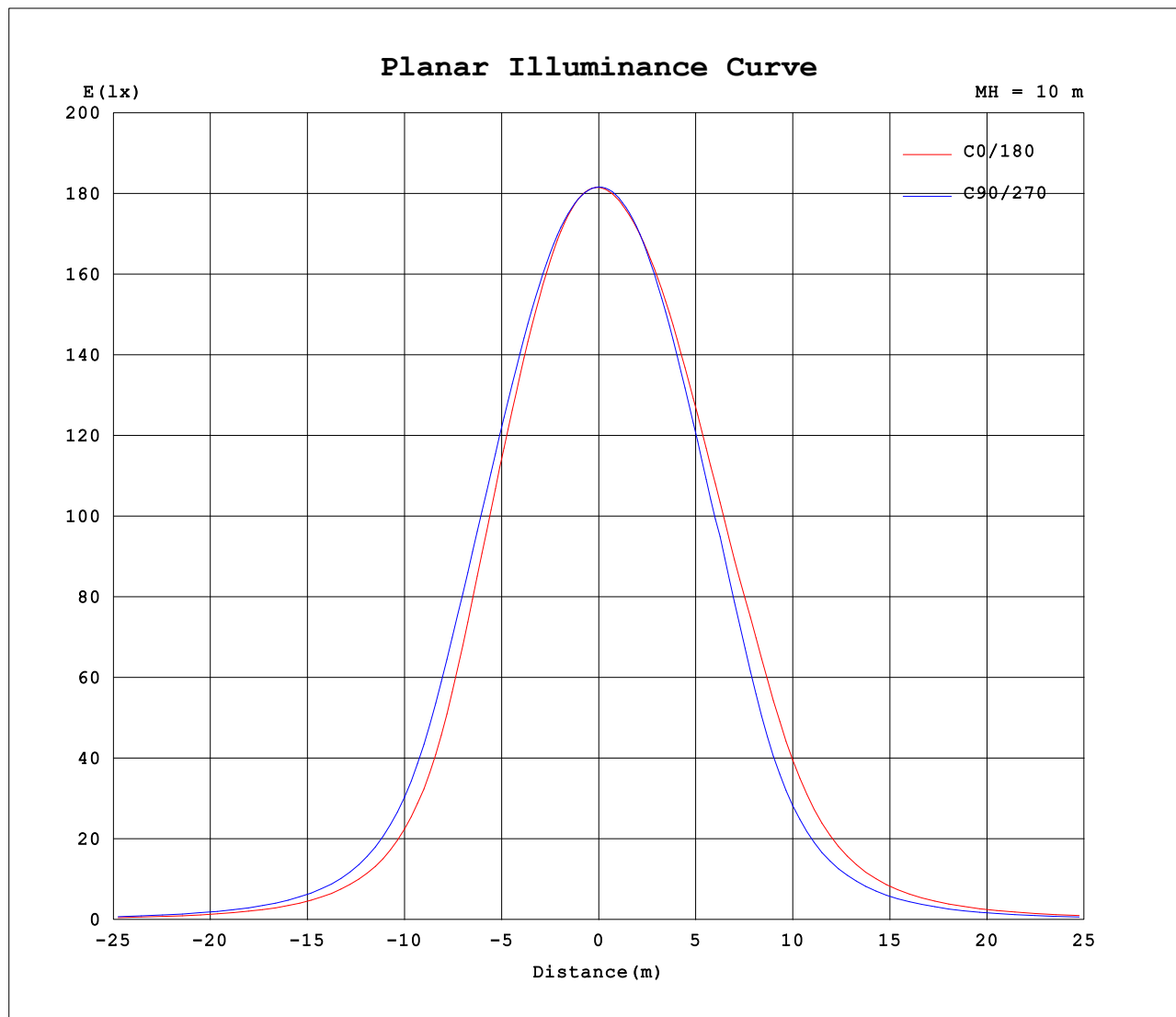
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.901A P:231.0W PF:0.9966 Freq:59.98Hz Lamp Flux:37169.5x1 lm								
NAME: H17XL-240W-4K					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	1816	1816	1816	1817	1816	1816	1816	1817										
5	1816	1817	1816	1814	1813	1816	1818	1819										
10	1808	1811	1815	1815	1813	1818	1818	1811										
15	1781	1789	1807	1816	1816	1817	1806	1785										
20	1727	1743	1780	1808	1812	1806	1775	1733										
25	1635	1663	1729	1778	1788	1773	1713	1641										
30	1482	1546	1634	1719	1732	1706	1605	1487										
35	1237	1318	1470	1602	1623	1580	1431	1239										
40	911	993	1194	1410	1441	1354	1124	910										
45	636	690	859	1087	1119	1021	800	634										
50	436	471	592	767	787	719	548	433										
55	299	325	407	525	538	489	378	299										
60	202	222	283	361	371	337	257	205										
65	134	148	193	247	253	231	170	138										
70	84.8	95.0	128	166	168	155	109	86.7										
75	47.2	54.5	77.8	106	106	97.6	65.8	48.0										
80	19.5	24.2	40.2	57.5	59.1	51.0	32.5	19.3										
85	2.82	3.90	12.1	19.4	24.6	16.6	7.99	2.38										
90	1.91	1.80	1.60	2.12	3.63	2.37	1.45	1.70										
95	1.78	1.72	1.49	1.62	1.45	1.57	1.42	1.68										
100	2.35	2.17	1.82	1.63	1.46	1.55	1.84	2.22										
105	3.06	2.84	2.39	2.01	1.92	2.02	2.43	2.90										
110	3.82	3.62	3.09	2.62	2.53	2.65	3.14	3.68										
115	4.68	4.48	3.90	3.35	3.26	3.40	3.96	4.56										
120	5.63	5.40	4.79	4.17	4.11	4.26	4.88	5.52										
125	6.59	6.36	5.73	5.07	5.04	5.19	5.86	6.50										
130	7.57	7.31	6.69	6.01	6.05	6.19	6.89	7.54										
135	8.48	8.25	7.66	6.96	7.10	7.22	7.94	8.55										
140	9.31	9.16	8.58	7.91	8.16	8.27	8.97	9.55										
145	10.1	10.0	9.45	8.83	9.14	9.26	9.90	10.4										
150	11.0	10.8	10.3	9.68	10.1	10.2	10.8	11.3										
155	11.8	11.7	11.2	10.5	11.0	11.1	11.7	12.2										
160	12.8	12.5	12.1	11.4	11.9	12.0	12.6	13.0										
165	13.6	13.4	13.0	12.4	12.9	12.9	13.5	13.8										
170	14.3	14.1	13.8	13.3	13.8	13.7	14.2	14.4										
175	14.8	14.6	14.5	14.1	14.5	14.4	14.6	14.7										
180	14.9	14.7	14.8	14.6	14.9	14.7	14.8	14.6										

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: