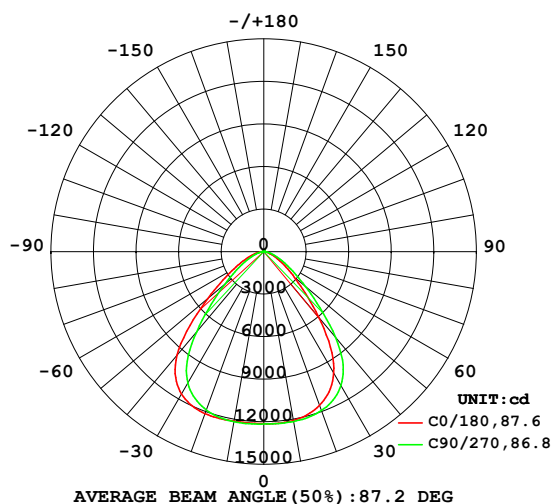


## LUMINAIRE PHOTOMETRIC TEST REPORT

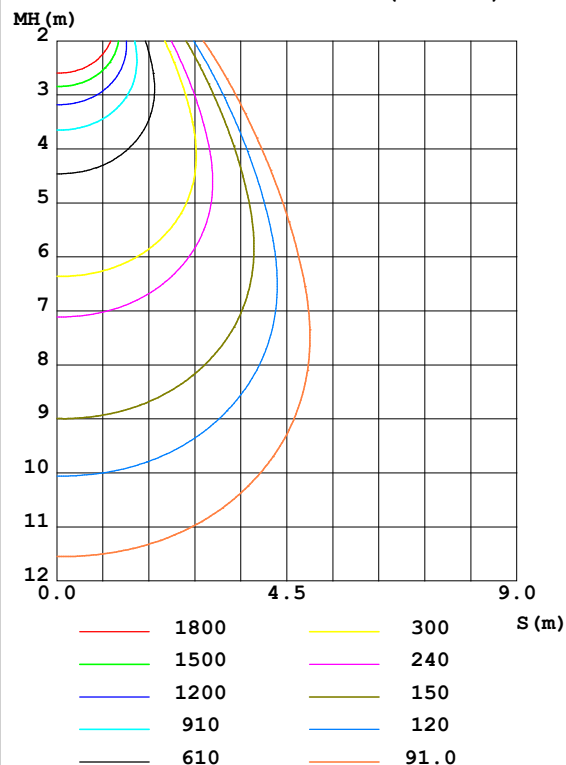
Test:U:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm					
NAME: H17XL-150W-4K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: RAB LIGHTING INC		SUR.:0.23m		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 171.67 lm/W
MODEL		Imax(cd)	12186	S/MH(C0/180)	1.35	
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	24652	□ UP,DN(C0-180)	0.5,48.3	
NOMINAL FLUX(lm)	24651.7	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:

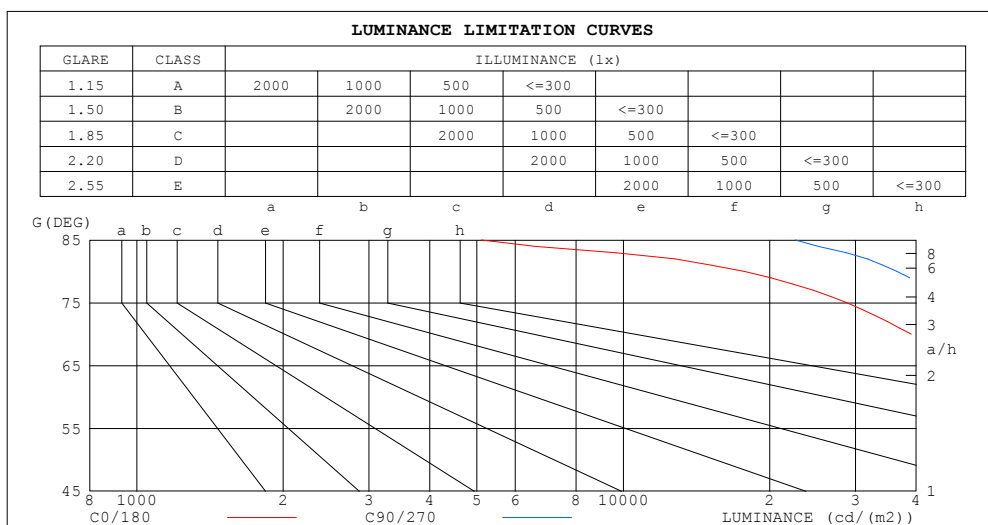
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1209	1211	1216	1216	1214	1217	1217	1213	0- 10	1160	1160	4.7,4.7
20	1153	1165	1192	1213	1216	1211	1188	1158	10- 20	3411	4571	18.5,18.5
30	987.2	1021	1089	1150	1161	1141	1070	988.1	20- 30	5269	9840	39.9,39.9
40	602.8	652.0	788.0	927.6	951.5	904.1	736.4	597.0	30- 40	5885	15725	63.8,63.8
50	284.6	308.5	385.5	501.8	517.0	471.6	361.6	282.6	40- 50	4358	20084	81.5,81.5
60	132.0	144.3	185.1	237.6	243.7	221.3	169.8	134.3	50- 60	2438	22521	91.4,91.4
70	55.43	62.22	83.71	109.9	109.9	101.6	73.19	56.99	60- 70	1255	23776	96.4,96.4
80	12.77	16.01	26.29	38.45	38.97	33.72	21.65	12.69	70- 80	535.4	24311	98.6,98.6
90	1.237	1.172	1.045	1.425	2.496	1.592	0.9506	1.111	80- 90	103.8	24415	99,99
100	1.544	1.426	1.185	1.064	0.9489	1.013	1.198	1.457	90-100	12.13	24427	99.1,99.1
110	2.519	2.381	2.034	1.711	1.654	1.739	2.056	2.422	100-110	17.07	24444	99.2,99.2
120	3.703	3.556	3.150	2.733	2.695	2.803	3.200	3.641	110-120	25.78	24470	99.3,99.3
130	4.985	4.817	4.411	3.945	3.981	4.076	4.531	4.977	120-130	34.12	24504	99.4,99.4
140	6.147	6.040	5.664	5.203	5.374	5.449	5.912	6.325	130-140	39.51	24544	99.6,99.6
150	7.222	7.142	6.795	6.381	6.640	6.725	7.128	7.495	140-150	39.80	24584	99.7,99.7
160	8.416	8.268	7.978	7.544	7.881	7.928	8.307	8.621	150-160	34.66	24618	99.9,99.9
170	9.447	9.271	9.112	8.769	9.099	9.069	9.350	9.494	160-170	24.46	24643	100,100
180	9.821	9.692	9.771	9.645	9.816	9.697	9.767	9.652	170-180	9.021	24652	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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-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	5106	22594
80	17719	36487
75	28833	47347
70	39051	58973
65	50128	72060
60	63594	89191
55	82044	111928
50	106694	144531
45	141555	192366

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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-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 .136 .043	.233 .133 .042	.219 .126 .040	.207 .119 .038	.195 .113 .036	
2.0	.232 .127 .039	.226 .124 .038	.214 .119 .037	.203 .114 .036	.193 .109 .034	
3.0	.220 .117 .035	.215 .115 .035	.205 .111 .034	.195 .107 .033	.186 .103 .032	
4.0	.208 .108 .032	.203 .106 .031	.194 .103 .031	.186 .100 .030	.178 .097 .029	
5.0	.196 .100 .029	.192 .098 .029	.184 .096 .028	.176 .093 .028	.169 .090 .027	
6.0	.185 .093 .026	.181 .091 .026	.174 .089 .026	.167 .087 .026	.161 .085 .025	
7.0	.174 .086 .024	.171 .085 .024	.165 .083 .024	.159 .081 .024	.153 .079 .023	
8.0	.165 .081 .023	.162 .080 .023	.156 .078 .022	.151 .076 .022	.146 .075 .022	
9.0	.156 .076 .021	.153 .075 .021	.148 .073 .021	.143 .072 .021	.139 .070 .020	
10.0	.148 .071 .020	.146 .070 .020	.141 .069 .019	.137 .068 .019	.132 .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	.156 .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	.162 .121 .089	.139 .105 .077	.096 .073 .054	.055 .042 .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 .058 .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	.079 .049 .027	.046 .029 .016	.015 .009 .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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm										
NAME: H17XL-150W-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	26.9	28.2	27.1	28.4	28.6	28.0	29.3	28.3	29.5	29.7
3H	27.2	28.3	27.4	28.6	28.8	28.4	29.6	28.7	29.8	30.1
4H	27.2	28.3	27.5	28.6	28.8	28.5	29.7	28.9	29.9	30.2
6H	27.2	28.2	27.5	28.5	28.8	28.6	29.6	28.9	29.9	30.2
8H	27.1	28.1	27.5	28.4	28.7	28.6	29.6	28.9	29.9	30.2
12H	27.1	28.1	27.5	28.4	28.7	28.6	29.5	28.9	29.8	30.1
4H 2H	27.0	28.1	27.3	28.4	28.6	28.0	29.1	28.3	29.4	29.6
3H	27.4	28.4	27.8	28.7	29.0	28.5	29.5	28.9	29.8	30.1
4H	27.5	28.4	27.9	28.7	29.0	28.8	29.6	29.1	29.9	30.3
6H	27.5	28.3	27.9	28.7	29.0	28.9	29.6	29.3	30.0	30.4
8H	27.5	28.2	27.9	28.6	29.0	28.9	29.6	29.3	30.0	30.4
12H	27.5	28.1	27.9	28.5	28.9	28.9	29.5	29.3	29.9	30.3
8H 4H	27.5	28.2	27.9	28.6	29.0	28.7	29.4	29.1	29.8	30.2
6H	27.6	28.2	28.0	28.6	29.0	28.9	29.4	29.3	29.9	30.3
8H	27.6	28.1	28.0	28.5	29.0	28.9	29.4	29.4	29.9	30.3
12H	27.5	28.0	28.0	28.4	28.9	28.9	29.3	29.4	29.8	30.3
12H 4H	27.5	28.1	27.9	28.5	28.9	28.7	29.3	29.1	29.7	30.1
6H	27.6	28.1	28.0	28.5	29.0	28.8	29.3	29.3	29.8	30.2
8H	27.5	28.0	28.0	28.4	28.9	28.9	29.3	29.4	29.8	30.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.2				
1.5H	+ 1.3 / - 1.0					+ 1.3 / - 1.1				
2.0H	+ 2.0 / - 1.6					+ 2.5 / - 1.8				

CIE Pub.117, 24652 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.1$ )

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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

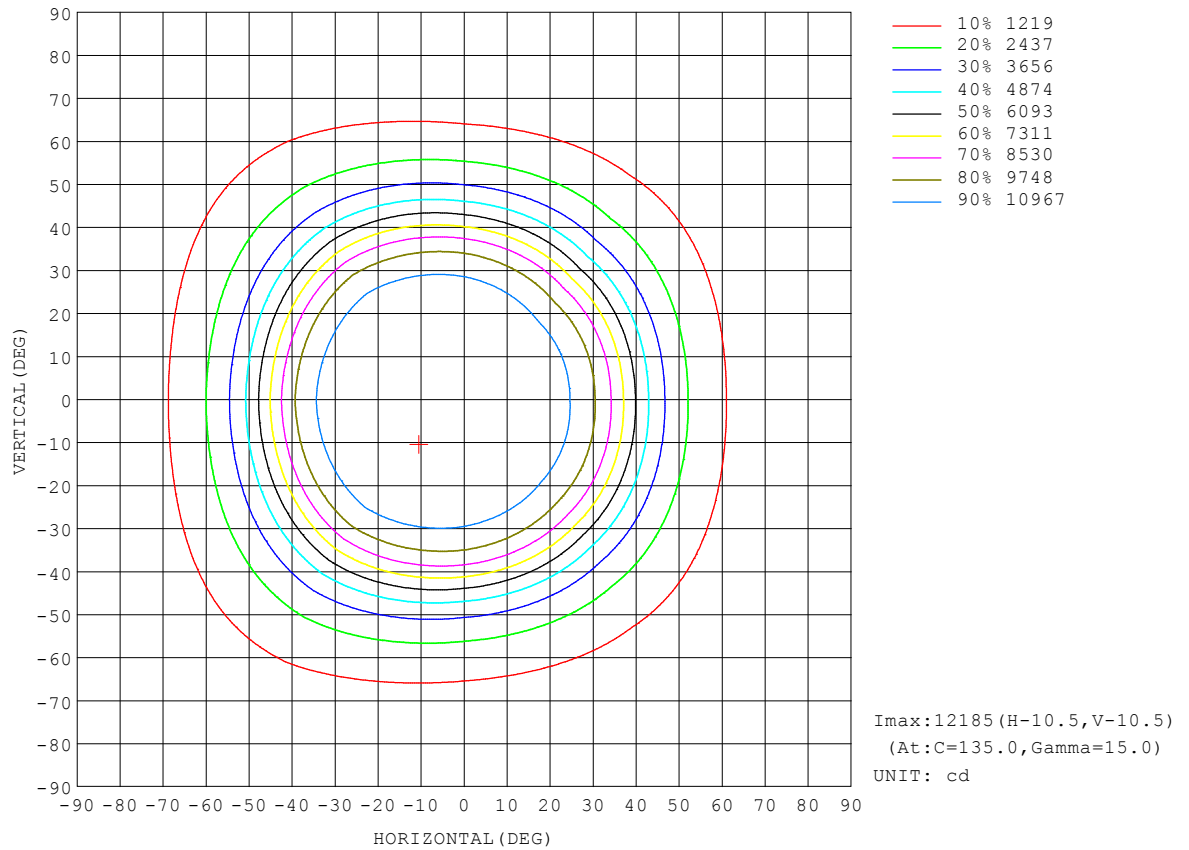
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	78	69	63	77	69	63	76	68	63	57
1.00	86	77	72	85	77	71	83	77	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	84	95	88	83	92	86	82	76
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	98	105	100	96	101	97	94	86
4.00	110	105	102	107	104	101	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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

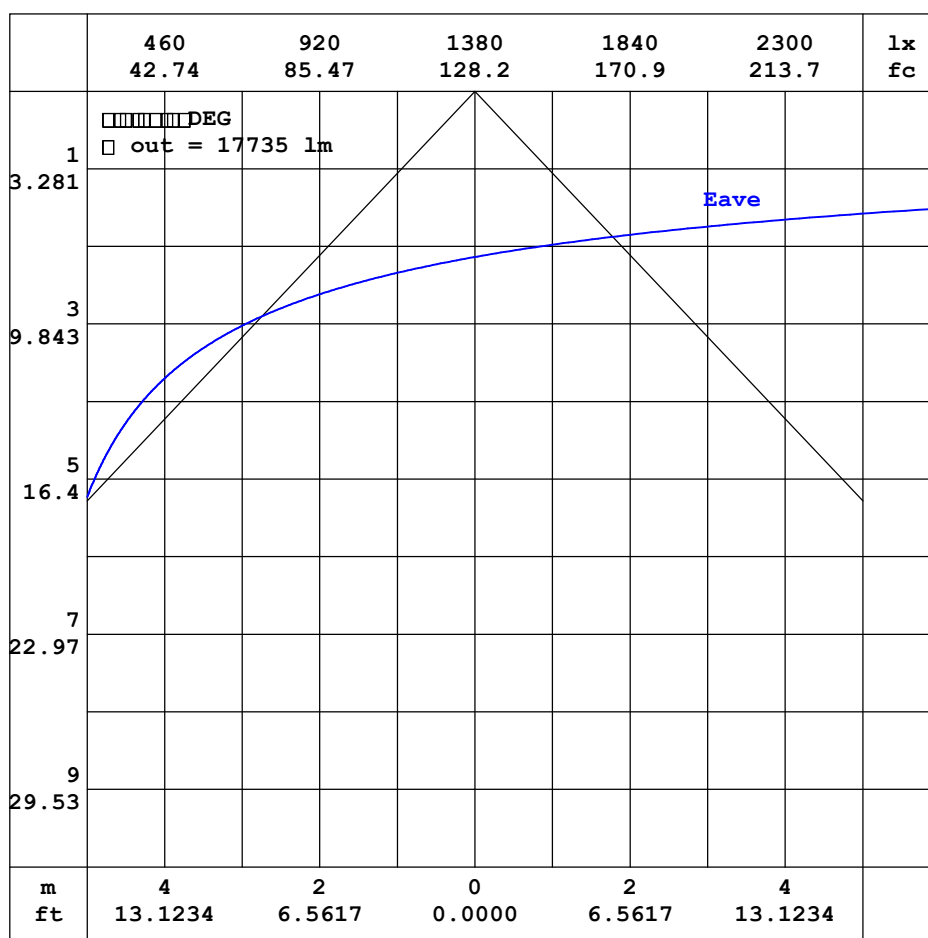


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



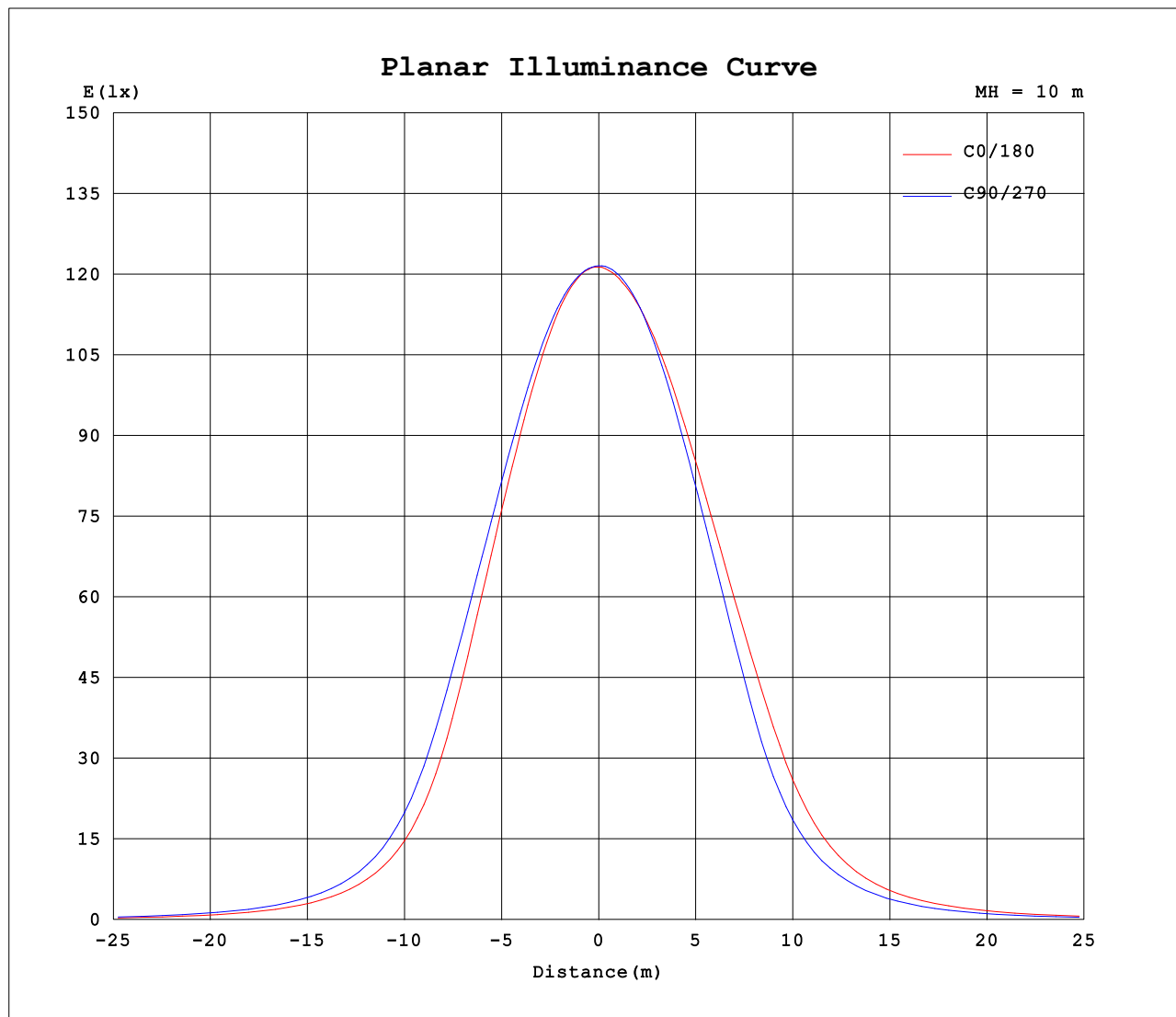
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.1V I:1.185A P:143.6W PF:0.9927 Freq:59.98Hz Lamp Flux:24651.7x1 lm		
NAME: H17XL-150W-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	1213	1215	1216	1217	1213	1215	1216	1217										
5	1215	1216	1216	1215	1212	1215	1217	1218										
10	1209	1211	1216	1216	1214	1217	1217	1213										
15	1190	1196	1210	1219	1217	1218	1210	1195										
20	1153	1165	1192	1213	1216	1211	1188	1158										
25	1091	1112	1156	1193	1199	1188	1145	1094										
30	987	1021	1089	1150	1161	1141	1070	988										
35	821	869	976	1069	1085	1056	943	817										
40	603	652	788	928	951	904	736	597										
45	415	452	564	712	736	679	526	411										
50	285	309	386	502	517	472	362	283										
55	195	213	266	345	354	320	250	196										
60	132	144	185	238	244	221	170	134										
65	87.9	96.9	126	162	165	152	112	90.5										
70	55.4	62.2	83.7	110	110	102	73.2	57.0										
75	31.0	35.7	50.9	70.3	69.4	64.0	43.6	31.6										
80	12.8	16.0	26.3	38.5	39.0	33.7	21.7	12.7										
85	1.85	2.54	8.17	12.8	16.3	11.0	5.48	1.54										
90	1.24	1.17	1.05	1.42	2.50	1.59	0.95	1.11										
95	1.17	1.12	0.97	1.07	0.95	1.03	0.93	1.10										
100	1.54	1.43	1.19	1.06	0.95	1.01	1.20	1.46										
105	2.00	1.87	1.57	1.31	1.25	1.32	1.59	1.91										
110	2.52	2.38	2.03	1.71	1.65	1.74	2.06	2.42										
115	3.08	2.95	2.56	2.19	2.13	2.23	2.59	3.00										
120	3.70	3.56	3.15	2.73	2.70	2.80	3.20	3.64										
125	4.34	4.19	3.77	3.32	3.31	3.42	3.85	4.28										
130	4.99	4.82	4.41	3.95	3.98	4.08	4.53	4.98										
135	5.59	5.44	5.05	4.57	4.67	4.75	5.22	5.66										
140	6.15	6.04	5.66	5.20	5.37	5.45	5.91	6.33										
145	6.68	6.60	6.24	5.81	6.02	6.11	6.52	6.91										
150	7.22	7.14	6.80	6.38	6.64	6.73	7.13	7.50										
155	7.81	7.70	7.37	6.95	7.24	7.32	7.72	8.06										
160	8.42	8.27	7.98	7.54	7.88	7.93	8.31	8.62										
165	9.00	8.81	8.58	8.16	8.53	8.53	8.89	9.12										
170	9.45	9.27	9.11	8.77	9.10	9.07	9.35	9.49										
175	9.77	9.61	9.55	9.30	9.55	9.48	9.67	9.69										
180	9.82	9.69	9.77	9.64	9.82	9.70	9.77	9.65										

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: