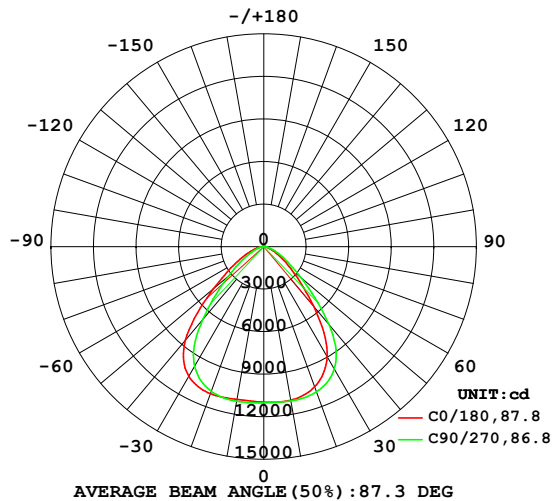


## LUMINAIRE PHOTOMETRIC TEST REPORT

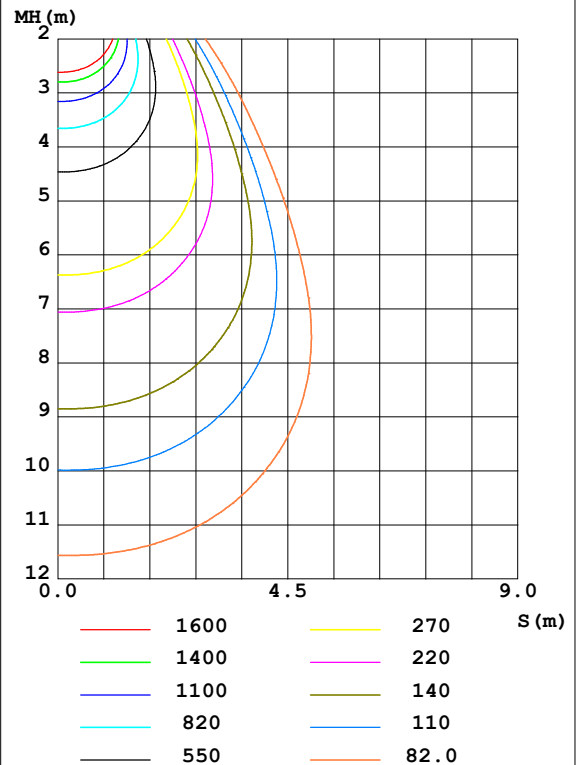
Test:U:122.1V I:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.10 lm/W			
MODEL		I <sub>max</sub> (cd)	11083	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)	22376	□ UP,DN(C0-180)	0.5,48.4
NOMINAL FLUX(lm)	22375.9	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:

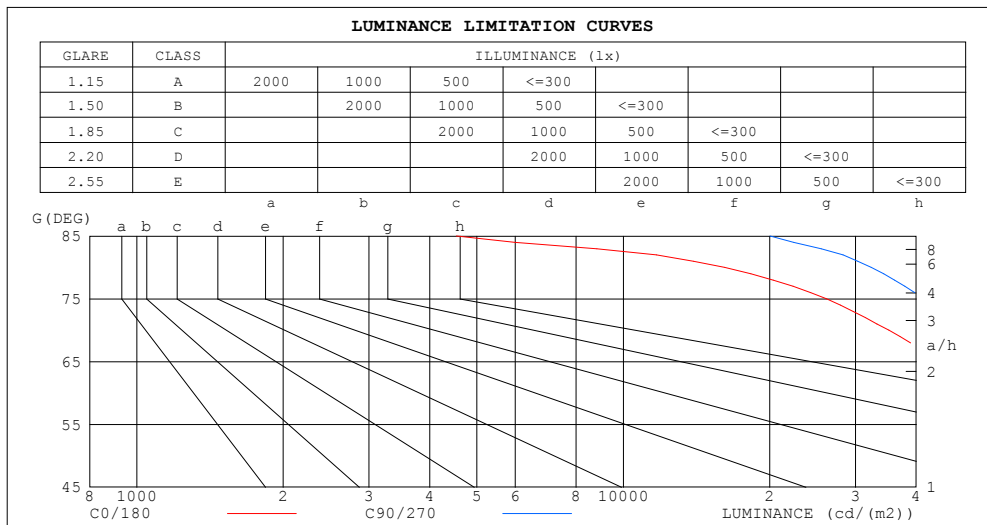
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1100	1102	1105	1101	1094	1101	1107	1107	0- 10	1051	1051	4.7,4.7
20	1051	1064	1089	1106	1103	1102	1085	1059	10- 20	3105	4156	18.6,18.6
30	894.8	929.2	994.9	1051	1057	1041	975.2	900.5	20- 30	4806	8963	40.1,40.1
40	544.5	590.3	714.5	842.0	860.8	815.2	668.0	543.6	30- 40	5347	14310	64,64
50	264.0	276.8	345.9	453.4	465.4	421.4	327.3	254.9	40- 50	3941	18251	81.6,81.6
60	120.4	132.3	164.3	214.4	222.2	201.3	146.8	123.3	50- 60	2199	20450	91.4,91.4
70	49.88	57.50	73.94	100.7	98.34	95.89	61.46	52.42	60- 70	1133	21583	96.5,96.5
80	11.64	15.02	23.31	35.58	34.65	31.21	18.33	11.61	70- 80	483.9	22067	98.6,98.6
90	1.117	1.058	0.9279	1.279	2.242	1.377	0.8622	1.010	80- 90	93.65	22161	99,99
100	1.395	1.290	1.075	0.9638	0.8590	0.9187	1.088	1.320	90-100	10.95	22172	99.1,99.1
110	2.285	2.154	1.850	1.558	1.499	1.579	1.867	2.199	100-110	15.48	22187	99.2,99.2
120	3.359	3.228	2.869	2.493	2.446	2.547	2.914	3.311	110-120	23.42	22210	99.3,99.3
130	4.529	4.381	4.022	3.601	3.615	3.711	4.130	4.531	120-130	31.04	22242	99.4,99.4
140	5.593	5.498	5.165	4.751	4.885	4.968	5.386	5.755	130-140	35.97	22277	99.6,99.6
150	6.572	6.500	6.199	5.828	6.038	6.129	6.499	6.832	140-150	36.26	22314	99.7,99.7
160	7.661	7.527	7.278	6.888	7.170	7.229	7.575	7.866	150-160	31.58	22345	99.9,99.9
170	8.609	8.448	8.319	8.010	8.283	8.269	8.533	8.672	160-170	22.30	22368	100,100
180	8.949	8.834	8.925	8.811	8.938	8.847	8.918	8.818	170-180	8.229	22376	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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	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	4540	20022
80	16153	32343
75	26148	41564
70	35140	52095
65	45232	63838
60	58026	79184
55	75928	99390
50	98951	129685
45	128986	174491

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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	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	.239 .136 .043	.232 .132 .042	.219 .126 .040	.206 .119 .038	.195 .113 .036	
2.0	.232 .127 .039	.225 .124 .038	.214 .119 .037	.203 .114 .036	.193 .109 .034	
3.0	.220 .117 .035	.214 .115 .035	.204 .111 .034	.195 .107 .033	.186 .103 .032	
4.0	.208 .108 .032	.203 .106 .031	.194 .103 .031	.185 .100 .030	.178 .096 .029	
5.0	.196 .100 .029	.191 .098 .029	.183 .095 .028	.176 .093 .028	.169 .090 .027	
6.0	.184 .092 .026	.181 .091 .026	.174 .089 .026	.167 .087 .025	.161 .085 .025	
7.0	.174 .086 .024	.171 .085 .024	.164 .083 .024	.158 .081 .024	.153 .079 .023	
8.0	.165 .080 .023	.162 .080 .022	.156 .078 .022	.151 .076 .022	.145 .075 .022	
9.0	.156 .075 .021	.153 .075 .021	.148 .073 .021	.143 .072 .021	.139 .070 .020	
10.0	.148 .071 .020	.146 .070 .020	.141 .069 .019	.136 .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 .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 .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 .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	.117 .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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm										
NAME: H17XL-150W-3K					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	26.6	27.8	26.8	28.0	28.2	27.6	28.9	27.9	29.1	29.3
3H	26.8	28.0	27.1	28.2	28.5	28.0	29.2	28.3	29.4	29.7
4H	26.9	28.0	27.2	28.2	28.5	28.1	29.2	28.5	29.5	29.8
6H	26.9	27.9	27.2	28.2	28.5	28.2	29.2	28.5	29.5	29.8
8H	26.8	27.8	27.2	28.1	28.4	28.2	29.2	28.5	29.5	29.8
12H	26.8	27.7	27.1	28.0	28.3	28.2	29.1	28.5	29.4	29.7
4H 2H	26.7	27.8	27.0	28.0	28.3	27.6	28.7	27.9	29.0	29.3
3H	27.1	28.0	27.4	28.3	28.6	28.2	29.1	28.5	29.4	29.7
4H	27.2	28.1	27.6	28.4	28.7	28.4	29.2	28.7	29.5	29.9
6H	27.2	28.0	27.6	28.3	28.7	28.5	29.2	28.9	29.6	30.0
8H	27.2	27.9	27.6	28.3	28.7	28.5	29.2	28.9	29.6	30.0
12H	27.1	27.8	27.6	28.2	28.6	28.5	29.1	28.9	29.5	29.9
8H 4H	27.2	27.9	27.6	28.3	28.7	28.3	29.0	28.7	29.4	29.8
6H	27.3	27.8	27.7	28.3	28.7	28.5	29.1	28.9	29.5	29.9
8H	27.2	27.8	27.7	28.2	28.7	28.5	29.0	29.0	29.5	29.9
12H	27.2	27.6	27.7	28.1	28.6	28.5	28.9	29.0	29.4	29.9
12H 4H	27.2	27.8	27.6	28.2	28.6	28.3	28.9	28.7	29.3	29.7
6H	27.2	27.7	27.7	28.2	28.7	28.4	28.9	28.9	29.4	29.9
8H	27.2	27.7	27.7	28.1	28.6	28.5	28.9	29.0	29.4	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.5					+ 0.9 / - 1.2				
1.5H	+ 1.2 / - 0.9					+ 1.4 / - 1.1				
2.0H	+ 2.0 / - 1.6					+ 2.5 / - 1.7				

CIE Pub.117, 22376 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 10.8$ )

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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

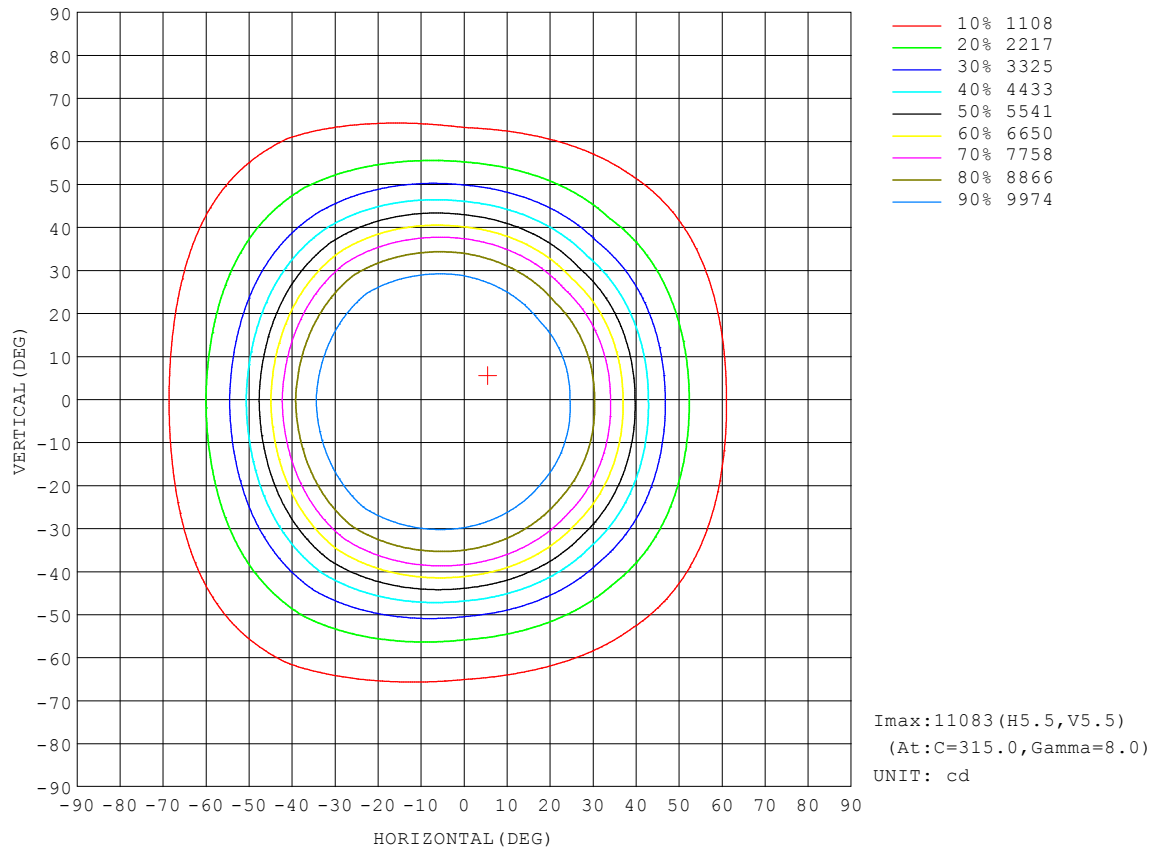
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	54	68	59	53	67	59	53	48
0.80	79	69	63	78	69	63	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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

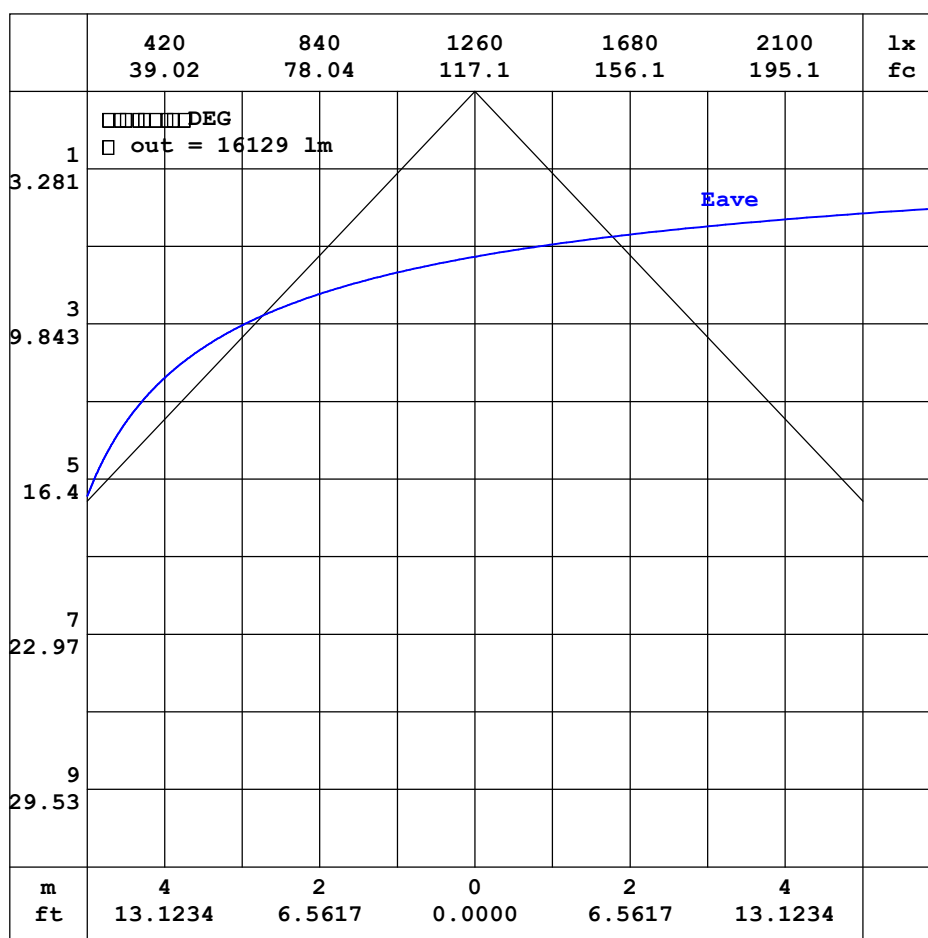


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



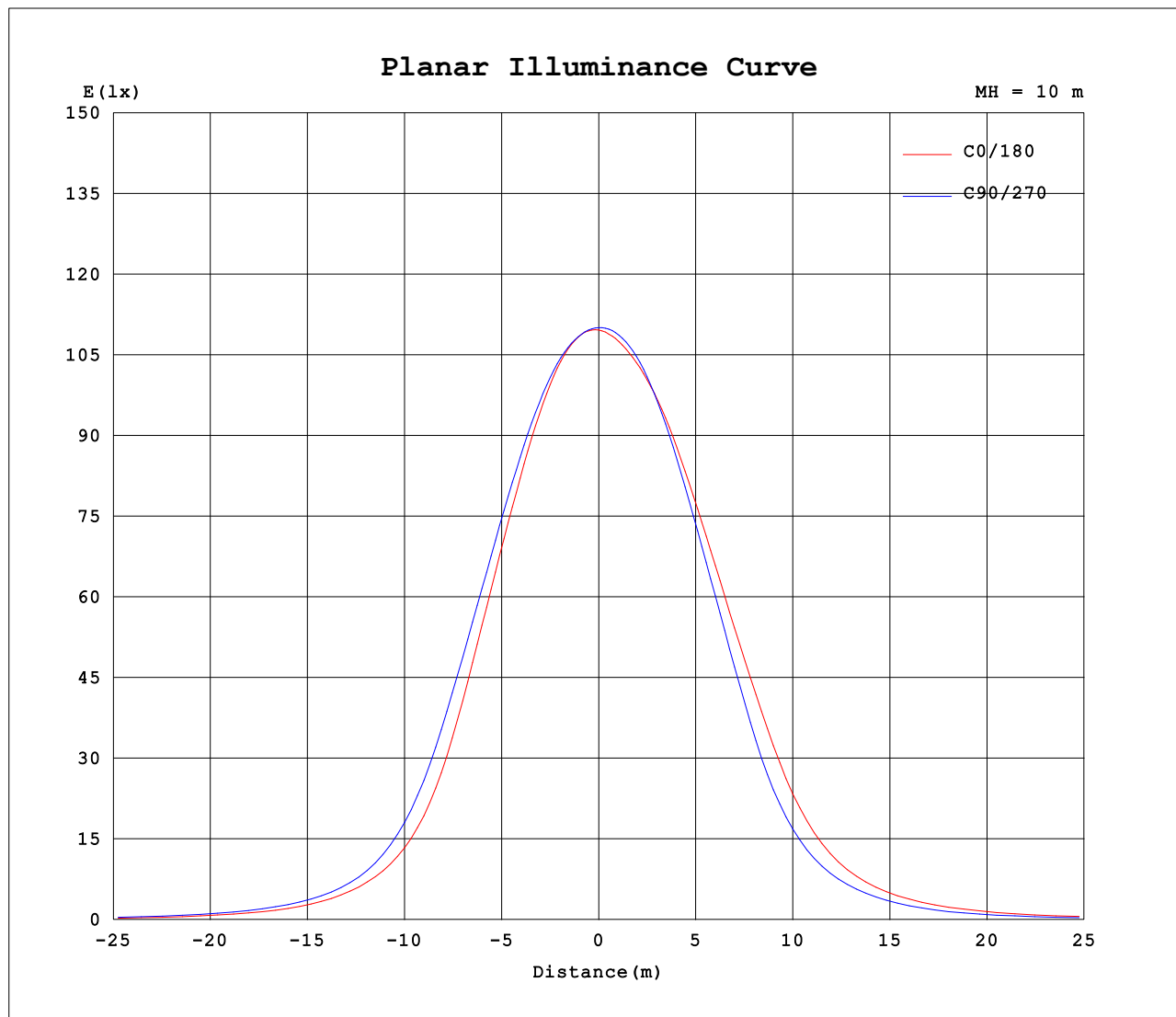
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.205A P:146.2W PF:0.9929 Freq:59.98Hz Lamp Flux:22375.9x1 lm		
NAME: H17XL-150W-3K	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	1096	1098	1101	1103	1096	1098	1101	1103										
5	1101	1102	1102	1099	1093	1097	1104	1108										
10	1100	1102	1105	1101	1094	1101	1107	1107										
15	1085	1092	1103	1106	1101	1105	1103	1093										
20	1051	1064	1089	1106	1103	1102	1085	1059										
25	992	1014	1057	1090	1091	1083	1046	999										
30	895	929	995	1051	1057	1041	975	900										
35	742	787	889	975	987	959	856	743										
40	545	590	715	842	861	815	668	544										
45	379	408	512	643	662	610	477	374										
50	264	277	346	453	465	421	327	255										
55	181	192	237	311	321	285	225	178										
60	120	132	164	214	222	201	147	123										
65	79.3	89.5	112	148	149	142	94.5	83.2										
70	49.9	57.5	73.9	101	98.3	95.9	61.5	52.4										
75	28.1	33.1	44.6	64.5	61.8	60.4	37.0	28.9										
80	11.6	15.0	23.3	35.6	34.7	31.2	18.3	11.6										
85	1.64	2.38	7.24	11.7	14.6	9.84	4.77	1.41										
90	1.12	1.06	0.93	1.28	2.24	1.38	0.86	1.01										
95	1.06	1.02	0.88	0.96	0.86	0.92	0.84	1.00										
100	1.40	1.29	1.08	0.96	0.86	0.92	1.09	1.32										
105	1.81	1.69	1.42	1.19	1.14	1.20	1.44	1.73										
110	2.28	2.15	1.85	1.56	1.50	1.58	1.87	2.20										
115	2.79	2.67	2.34	1.99	1.93	2.03	2.36	2.73										
120	3.36	3.23	2.87	2.49	2.45	2.55	2.91	3.31										
125	3.94	3.81	3.44	3.03	3.00	3.11	3.50	3.90										
130	4.53	4.38	4.02	3.60	3.61	3.71	4.13	4.53										
135	5.08	4.95	4.61	4.18	4.25	4.33	4.76	5.15										
140	5.59	5.50	5.17	4.75	4.89	4.97	5.39	5.76										
145	6.08	6.01	5.69	5.31	5.48	5.57	5.94	6.30										
150	6.57	6.50	6.20	5.83	6.04	6.13	6.50	6.83										
155	7.11	7.01	6.72	6.34	6.58	6.67	7.03	7.35										
160	7.66	7.53	7.28	6.89	7.17	7.23	7.58	7.87										
165	8.19	8.03	7.83	7.46	7.76	7.78	8.11	8.33										
170	8.61	8.45	8.32	8.01	8.28	8.27	8.53	8.67										
175	8.90	8.76	8.72	8.49	8.70	8.65	8.82	8.86										
180	8.95	8.83	8.93	8.81	8.94	8.85	8.92	8.82										

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: