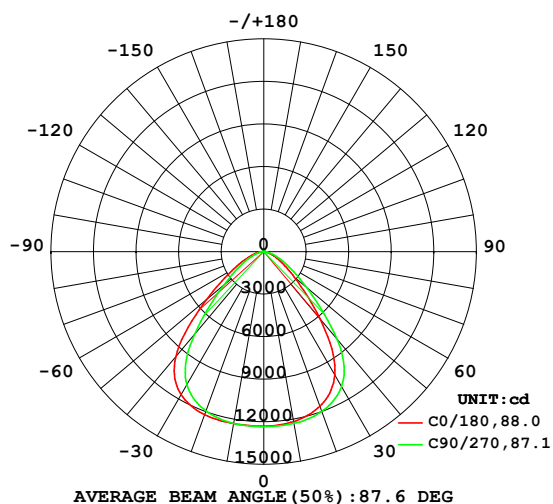


## LUMINAIRE PHOTOMETRIC TEST REPORT

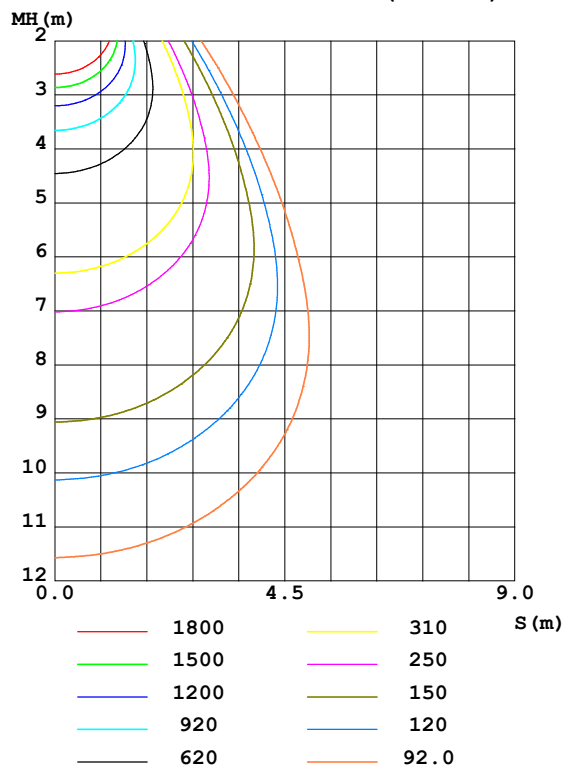
Test:U:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm					
NAME: H17XL-150W-5K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: RAB LIGHTING INC		SUR.:0.23m		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 169.77 lm/W
MODEL		Imax(cd)	12358	S/MH(C0/180)	1.36	
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	25036	□ UP,DN(C0-180)	0.5,48.3	
NOMINAL FLUX(lm)	25036.4	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,50.8	
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:

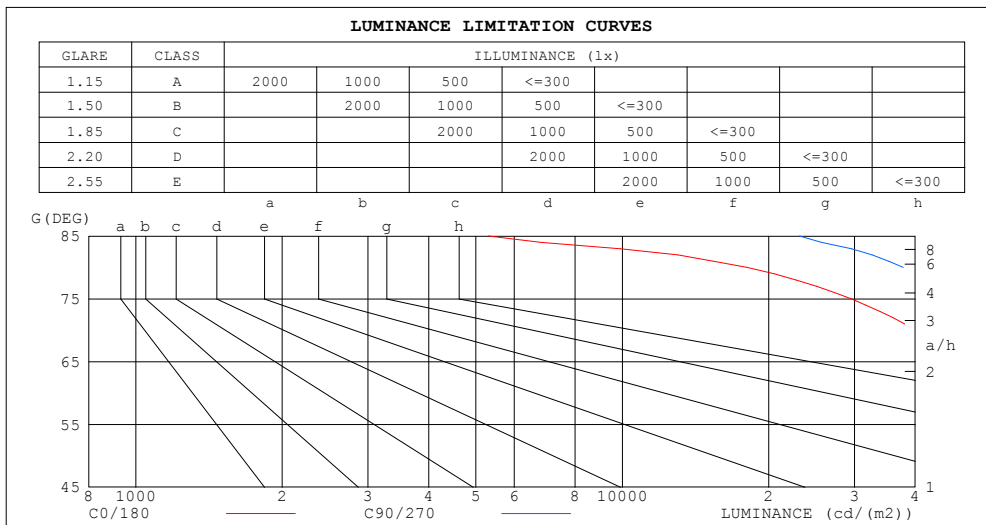
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1217	1221	1229	1235	1231	1233	1230	1223	0- 10	1175	1175	4.69,4.69
20	1160	1171	1199	1223	1223	1218	1195	1167	10- 20	3438	4613	18.4,18.4
30	1002	1033	1097	1157	1165	1148	1084	1005	20- 30	5309	9921	39.6,39.6
40	619.1	667.6	803.3	943.6	964.9	921.2	755.1	614.6	30- 40	5977	15898	63.5,63.5
50	285.1	319.7	397.6	512.7	528.9	488.0	370.5	293.5	40- 50	4464	20362	81.3,81.3
60	134.3	146.3	192.2	242.2	246.2	223.8	181.6	136.3	50- 60	2501	22863	91.3,91.3
70	57.13	62.36	87.28	109.7	113.4	98.30	80.66	57.72	60- 70	1282	24145	96.4,96.4
80	13.00	15.83	27.22	37.71	40.28	33.16	23.46	13.09	70- 80	545.8	24691	98.6,98.6
90	1.278	1.207	1.088	1.434	2.445	1.657	0.9727	1.139	80- 90	105.2	24796	99,99
100	1.577	1.457	1.211	1.092	0.9723	1.036	1.220	1.483	90-100	12.41	24809	99.1,99.1
110	2.567	2.425	2.077	1.753	1.688	1.773	2.089	2.458	100-110	17.41	24826	99.2,99.2
120	3.764	3.614	3.210	2.792	2.745	2.848	3.246	3.688	110-120	26.24	24852	99.3,99.3
130	5.056	4.884	4.486	4.022	4.042	4.134	4.586	5.036	120-130	34.65	24887	99.4,99.4
140	6.227	6.116	5.746	5.287	5.441	5.519	5.977	6.391	130-140	40.04	24927	99.6,99.6
150	7.310	7.226	6.888	6.476	6.711	6.803	7.206	7.576	140-150	40.29	24967	99.7,99.7
160	8.511	8.361	8.082	7.643	7.961	8.016	8.398	8.716	150-160	35.06	25003	99.9,99.9
170	9.548	9.370	9.223	8.877	9.187	9.167	9.450	9.599	160-170	24.74	25027	100,100
180	9.919	9.793	9.881	9.757	9.907	9.803	9.877	9.766	170-180	9.118	25036	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:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-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:

## WEC AND CCEC

Test:U:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-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	.240 .137 .043	.233 .133 .042	.219 .126 .040	.207 .119 .038	.196 .113 .037	
2.0	.232 .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	.195 .107 .033	.187 .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 .099 .029	.184 .096 .028	.176 .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 .076 .022	.146 .075 .022	
9.0	.156 .076 .021	.154 .075 .021	.148 .073 .021	.144 .072 .021	.139 .071 .020	
10.0	.148 .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	.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 .062	.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	.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:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm											
NAME: H17XL-150W-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	2H	27.0	28.2	27.2	28.4	28.7	28.1	29.4	28.4	29.6	29.8
	3H	27.2	28.4	27.5	28.6	28.9	28.6	29.7	28.9	30.0	30.2
	4H	27.3	28.4	27.6	28.7	28.9	28.7	29.8	29.0	30.1	30.3
	6H	27.3	28.3	27.6	28.6	28.9	28.8	29.8	29.1	30.1	30.3
	8H	27.2	28.2	27.6	28.5	28.8	28.7	29.7	29.1	30.0	30.3
	12H	27.2	28.1	27.5	28.4	28.8	28.7	29.7	29.1	30.0	30.3
4H	2H	27.1	28.2	27.4	28.4	28.7	28.1	29.2	28.4	29.5	29.8
	3H	27.5	28.4	27.8	28.7	29.1	28.7	29.6	29.0	29.9	30.2
	4H	27.6	28.5	28.0	28.8	29.1	28.9	29.8	29.3	30.1	30.4
	6H	27.6	28.4	28.0	28.7	29.1	29.0	29.8	29.4	30.1	30.5
	8H	27.6	28.3	28.0	28.7	29.1	29.0	29.7	29.4	30.1	30.5
	12H	27.5	28.2	28.0	28.6	29.0	29.0	29.7	29.4	30.1	30.5
8H	4H	27.6	28.3	28.0	28.7	29.1	28.8	29.5	29.3	29.9	30.3
	6H	27.6	28.2	28.1	28.6	29.1	29.0	29.6	29.5	30.0	30.4
	8H	27.6	28.1	28.1	28.6	29.0	29.0	29.5	29.5	30.0	30.5
	12H	27.6	28.0	28.1	28.5	29.0	29.0	29.5	29.5	29.9	30.4
12H	4H	27.6	28.2	28.0	28.6	29.0	28.8	29.4	29.2	29.8	30.3
	6H	27.6	28.1	28.1	28.6	29.0	29.0	29.5	29.4	29.9	30.4
	8H	27.6	28.0	28.1	28.5	29.0	29.0	29.4	29.5	29.9	30.4
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.6					+ 0.9 / - 1.2					
1.5H	+ 1.3 / - 1.1					+ 1.3 / - 1.1					
2.0H	+ 2.1 / - 1.6					+ 2.4 / - 1.8					

CIE Pub.117, 25036 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 11.2$ )

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:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

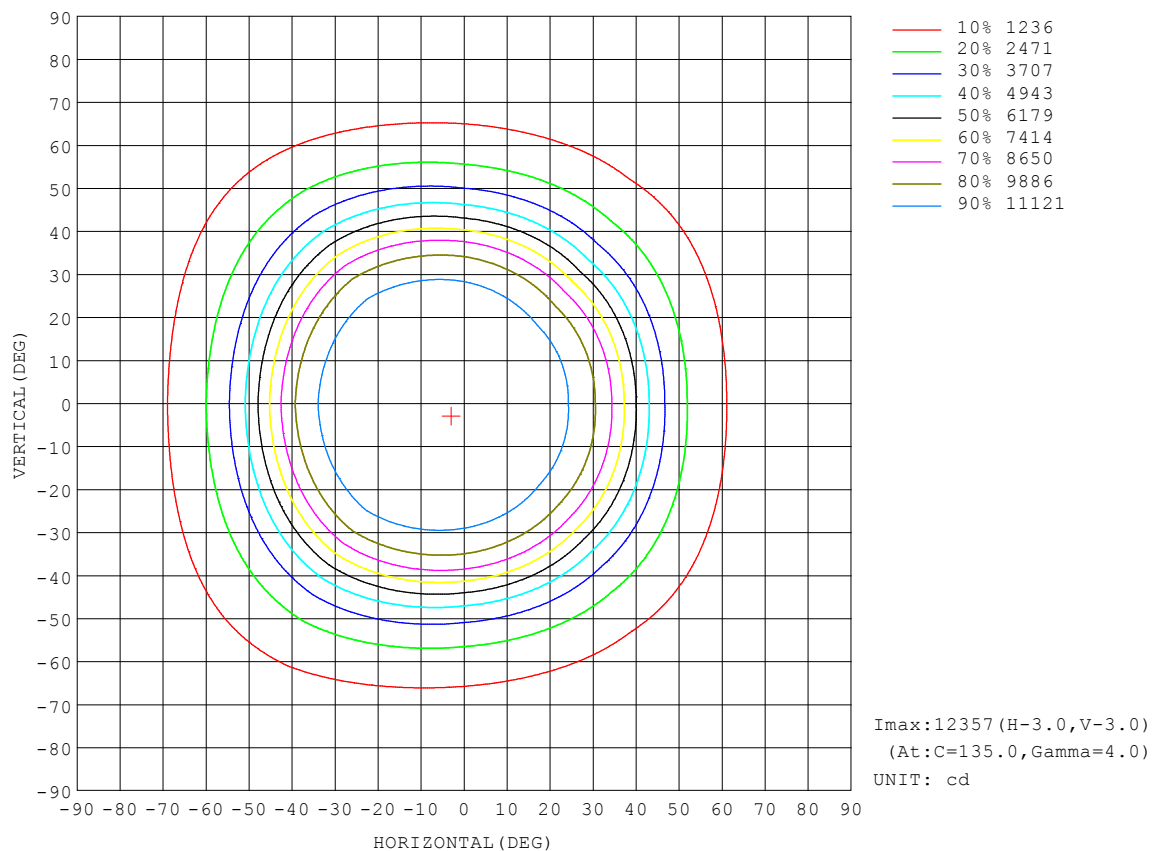
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	47
0.80	78	69	63	77	69	63	76	68	62	57
1.00	86	77	71	85	77	71	83	77	71	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	84
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:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

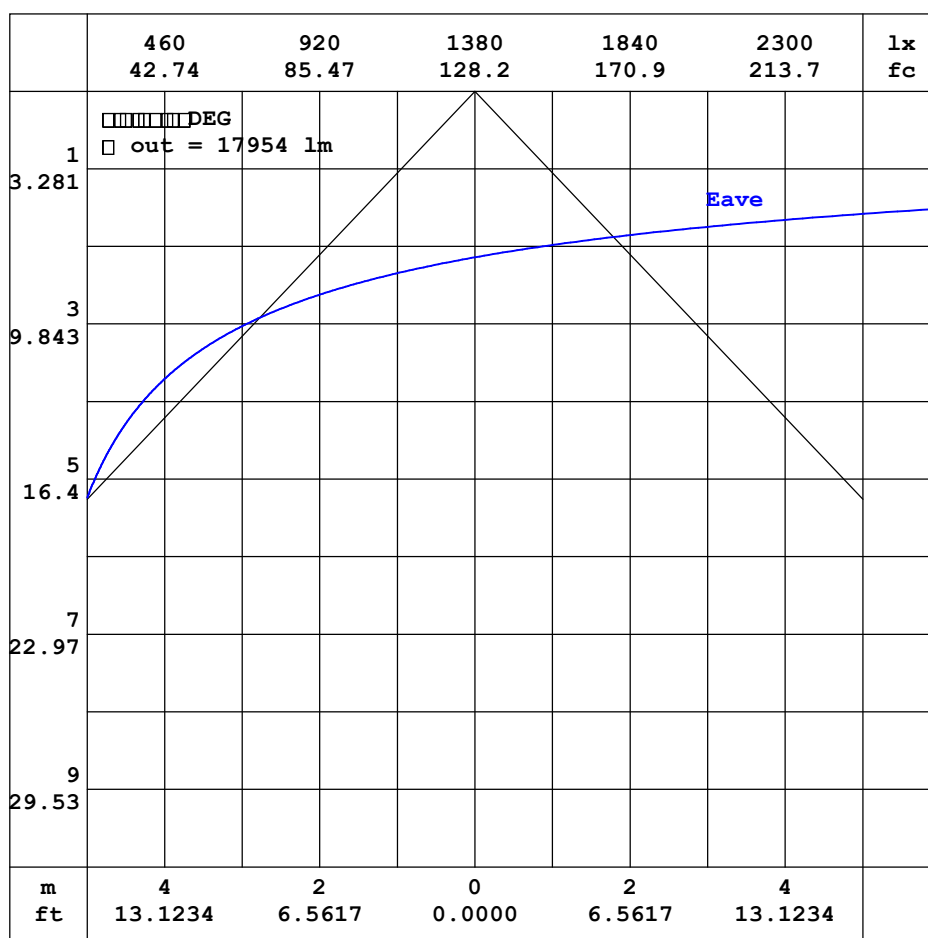


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



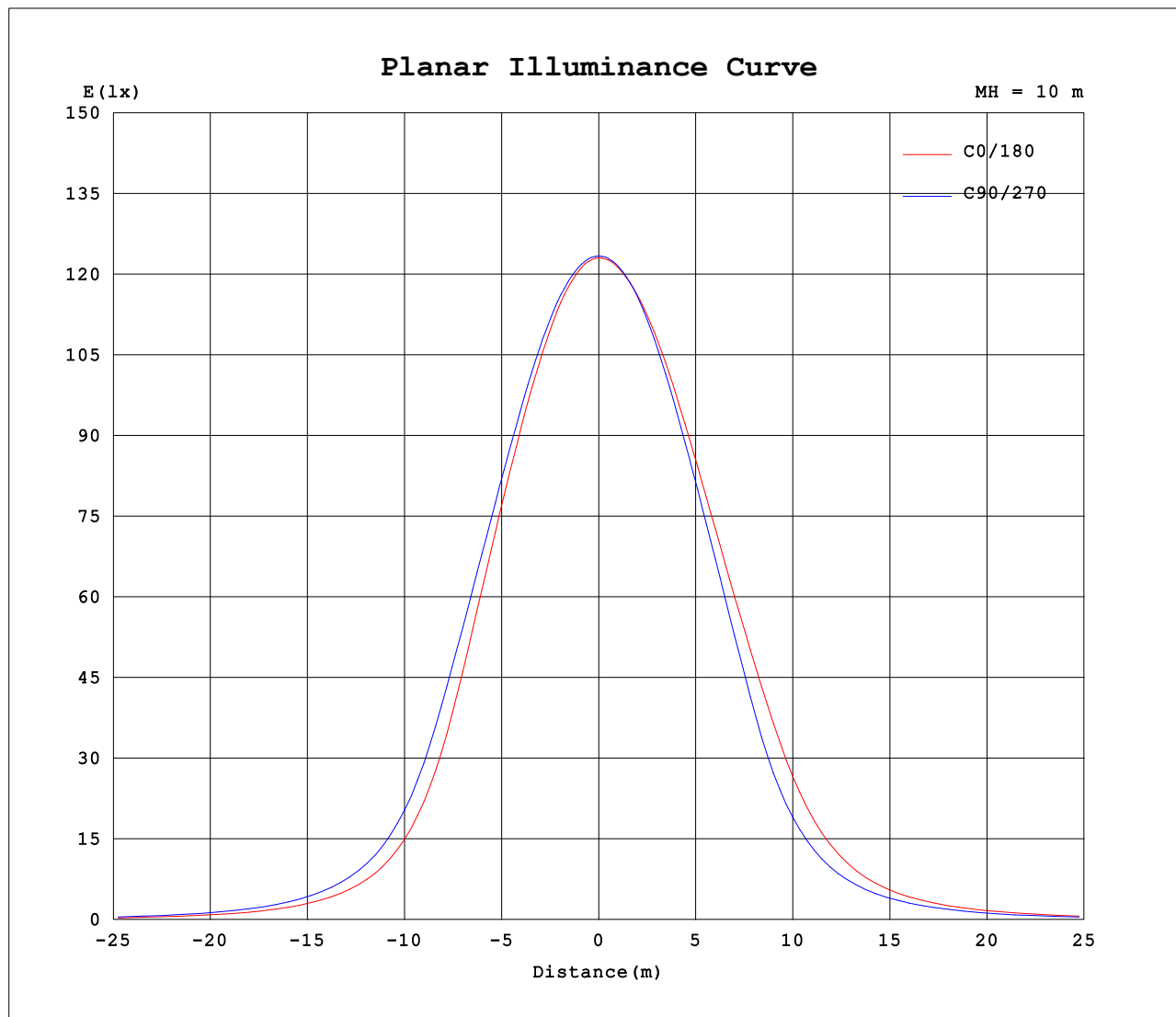
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.1V I:1.216A P:147.5W PF:0.9930 Freq:59.98Hz Lamp Flux:25036.4x1 lm		
NAME: H17XL-150W-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	1231	1232	1234	1235	1231	1232	1234	1235										
5	1227	1229	1233	1235	1231	1234	1234	1233										
10	1217	1221	1229	1235	1231	1233	1230	1223										
15	1195	1203	1220	1233	1230	1230	1219	1203										
20	1160	1171	1199	1223	1223	1218	1195	1167										
25	1101	1119	1161	1200	1204	1194	1154	1107										
30	1002	1033	1097	1157	1165	1148	1084	1005										
35	840	886	989	1080	1093	1067	962	839										
40	619	668	803	944	965	921	755	615										
45	423	465	576	727	753	698	539	425										
50	285	320	398	513	529	488	371	294										
55	196	219	277	352	359	333	257	201										
60	134	146	192	242	246	224	182	136										
65	90.4	97.7	132	164	170	148	123	91.4										
70	57.1	62.4	87.3	110	113	98.3	80.7	57.7										
75	31.7	35.7	53.3	70.1	72.0	61.9	47.4	32.3										
80	13.0	15.8	27.2	37.7	40.3	33.2	23.5	13.1										
85	1.92	2.58	8.37	12.6	16.6	11.2	5.80	1.61										
90	1.28	1.21	1.09	1.43	2.45	1.66	0.97	1.14										
95	1.19	1.14	1.00	1.10	0.97	1.06	0.94	1.12										
100	1.58	1.46	1.21	1.09	0.97	1.04	1.22	1.48										
105	2.05	1.90	1.60	1.34	1.28	1.35	1.61	1.94										
110	2.57	2.42	2.08	1.75	1.69	1.77	2.09	2.46										
115	3.13	3.00	2.62	2.24	2.18	2.27	2.64	3.04										
120	3.76	3.61	3.21	2.79	2.74	2.85	3.25	3.69										
125	4.41	4.25	3.84	3.39	3.36	3.47	3.89	4.34										
130	5.06	4.88	4.49	4.02	4.04	4.13	4.59	5.04										
135	5.66	5.51	5.13	4.66	4.74	4.82	5.29	5.72										
140	6.23	6.12	5.75	5.29	5.44	5.52	5.98	6.39										
145	6.76	6.68	6.33	5.90	6.09	6.18	6.60	6.99										
150	7.31	7.23	6.89	6.48	6.71	6.80	7.21	7.58										
155	7.90	7.79	7.47	7.04	7.31	7.40	7.80	8.15										
160	8.51	8.36	8.08	7.64	7.96	8.02	8.40	8.72										
165	9.09	8.91	8.69	8.27	8.61	8.63	8.98	9.22										
170	9.55	9.37	9.22	8.88	9.19	9.17	9.45	9.60										
175	9.86	9.71	9.66	9.41	9.64	9.58	9.77	9.81										
180	9.92	9.79	9.88	9.76	9.91	9.80	9.88	9.77										

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: