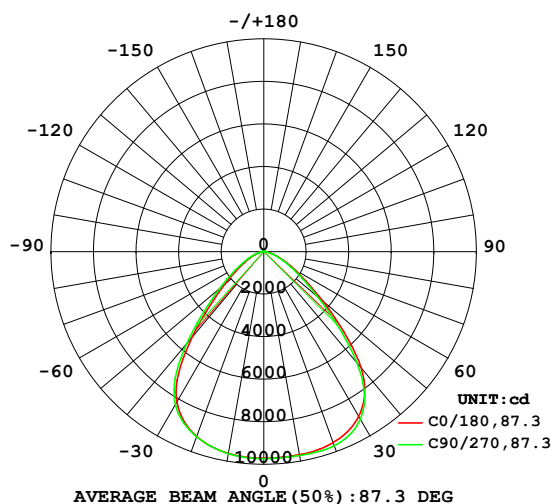


## LUMINAIRE PHOTOMETRIC TEST REPORT

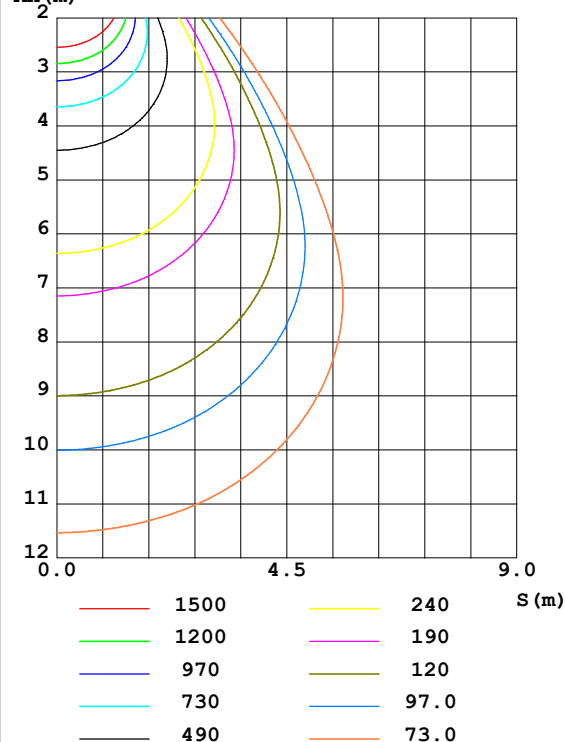
Test:U:122.1V I:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.62 lm/W			
MODEL		I <sub>max</sub> (cd)	9746	S/MH(C0/180)	1.17
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	19455	□ UP,DN(C0-180)	0.5,52.7
NOMINAL FLUX(lm)	19454.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,46.3
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:

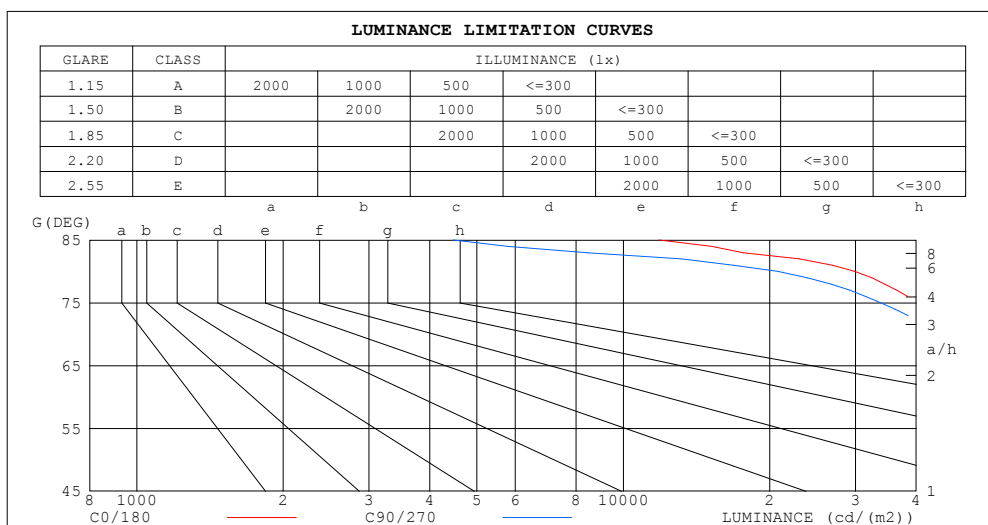
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	9694	9705	9727	9724	9632	9618	9639	9681	0- 10	926.1	926.1	4.76,4.76
20	9552	9713	9708	9510	9241	9201	9252	9367	10- 20	2714	3640	18.7,18.7
30	8932	9194	9085	8660	8175	8136	8310	8557	20- 30	4207	7847	40.3,40.3
40	7114	7210	6820	6160	5218	5242	5628	6212	30- 40	4745	12592	64.7,64.7
50	3634	3687	3316	2953	2409	2480	2716	3064	40- 50	3457	16049	82.5,82.5
60	1645	1685	1509	1347	1091	1146	1263	1413	50- 60	1876	17925	92.1,92.1
70	718.8	724.3	640.5	570.9	457.3	485.6	544.4	613.4	60- 70	933.6	18859	96.9,96.9
80	215.4	149.6	149.7	101.3	100.7	84.72	142.6	122.2	70- 80	366.6	19226	98.8,98.8
90	7.803	8.523	6.594	8.170	6.970	9.143	7.268	9.005	80- 90	39.22	19265	99,99
100	8.307	8.477	9.107	9.759	10.59	10.52	9.891	9.050	90-100	8.967	19274	99.1,99.1
110	14.63	14.50	15.81	16.57	18.28	18.01	17.34	15.71	100-110	13.39	19287	99.1,99.1
120	23.53	22.90	24.97	25.46	28.47	27.76	27.43	24.92	110-120	20.62	19308	99.2,99.2
130	34.06	32.62	35.46	35.33	39.98	38.53	39.03	35.51	120-130	27.65	19335	99.4,99.4
140	44.01	43.30	44.79	45.86	50.55	49.70	49.84	46.85	130-140	32.11	19368	99.6,99.6
150	52.54	52.94	53.27	55.19	59.44	60.14	58.52	57.19	140-150	32.33	19400	99.7,99.7
160	62.10	61.77	63.10	63.88	68.72	68.50	67.74	66.35	150-160	27.93	19428	99.9,99.9
170	72.13	71.31	72.87	73.03	76.45	75.95	76.04	74.54	160-170	19.67	19447	100,100
180	78.76	77.90	78.81	78.22	78.70	77.98	78.80	78.30	170-180	7.256	19455	100,100
DEG	LUMINOUS INTENSITY:cd									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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-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	11836	4472
80	29886	20772
75	40445	33792
70	50643	45124
65	62720	57221
60	79275	72707
55	101827	93888
50	136215	124297
45	181256	167219

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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-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	.235 .134 .042	.228 .130 .041	.214 .123 .039	.202 .116 .037	.190 .110 .036	
2.0	.228 .125 .038	.222 .122 .038	.211 .117 .036	.200 .112 .035	.190 .107 .034	
3.0	.217 .116 .035	.212 .114 .034	.202 .109 .033	.192 .105 .032	.184 .102 .031	
4.0	.206 .107 .031	.201 .105 .031	.192 .102 .030	.184 .099 .030	.176 .095 .029	
5.0	.194 .099 .029	.190 .097 .028	.182 .095 .028	.174 .092 .027	.168 .090 .027	
6.0	.183 .092 .026	.180 .091 .026	.172 .088 .026	.166 .086 .025	.160 .084 .025	
7.0	.173 .086 .024	.170 .085 .024	.163 .083 .024	.157 .081 .023	.152 .079 .023	
8.0	.164 .080 .023	.161 .079 .022	.155 .078 .022	.150 .076 .022	.145 .074 .022	
9.0	.155 .075 .021	.153 .074 .021	.147 .073 .021	.143 .071 .020	.138 .070 .020	
10.0	.148 .071 .020	.145 .070 .020	.140 .069 .019	.136 .068 .019	.132 .066 .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 .148	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.147 .120 .098	.101 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .122 .089	.139 .105 .077	.095 .073 .054	.055 .043 .032	.018 .014 .010	
4.0	.154 .108 .072	.132 .093 .063	.091 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.126 .084 .052	.087 .059 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .088 .051	.120 .076 .045	.083 .053 .032	.048 .031 .019	.016 .010 .006	
7.0	.133 .081 .044	.115 .070 .039	.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	.122 .070 .035	.105 .061 .031	.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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm											
NAME: H17-120W-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	28.8	30.1	29.1	30.3	30.5	28.5	29.8	28.8	30.0	30.2	
	3H	29.1	30.3	29.4	30.5	30.8	28.8	30.0	29.1	30.2	30.5
	4H	29.2	30.3	29.5	30.6	30.8	28.9	30.0	29.2	30.2	30.5
	6H	29.2	30.3	29.6	30.5	30.8	28.9	29.9	29.2	30.2	30.5
	8H	29.2	30.2	29.6	30.5	30.8	28.8	29.8	29.2	30.1	30.4
	12H	29.2	30.1	29.5	30.4	30.7	28.8	29.7	29.1	30.0	30.3
4H	2H	28.9	30.0	29.2	30.2	30.5	28.7	29.8	29.0	30.0	30.3
	3H	29.4	30.3	29.7	30.6	30.9	29.1	30.0	29.4	30.3	30.6
	4H	29.5	30.4	29.9	30.7	31.0	29.2	30.1	29.6	30.4	30.7
	6H	29.6	30.3	30.0	30.7	31.1	29.2	30.0	29.6	30.4	30.7
	8H	29.6	30.3	30.0	30.6	31.0	29.2	29.9	29.6	30.3	30.7
	12H	29.5	30.2	30.0	30.6	31.0	29.2	29.8	29.6	30.2	30.6
8H	4H	29.5	30.2	29.9	30.6	31.0	29.2	29.9	29.6	30.3	30.7
	6H	29.6	30.2	30.1	30.6	31.0	29.3	29.8	29.7	30.2	30.7
	8H	29.6	30.1	30.1	30.5	31.0	29.2	29.7	29.7	30.2	30.6
	12H	29.6	30.0	30.1	30.5	31.0	29.2	29.6	29.7	30.1	30.6
12H	4H	29.5	30.1	29.9	30.5	30.9	29.2	29.8	29.6	30.2	30.6
	6H	29.6	30.1	30.0	30.5	31.0	29.2	29.7	29.7	30.2	30.6
	8H	29.6	30.0	30.1	30.5	30.9	29.2	29.6	29.7	30.1	30.6
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.3					+ 1.1 / - 1.5					
1.5H	+ 0.8 / - 0.9					+ 1.0 / - 1.0					
2.0H	+ 2.2 / - 1.7					+ 2.1 / - 1.7					

CIE Pub.117, 19455 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 10.3$ )

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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

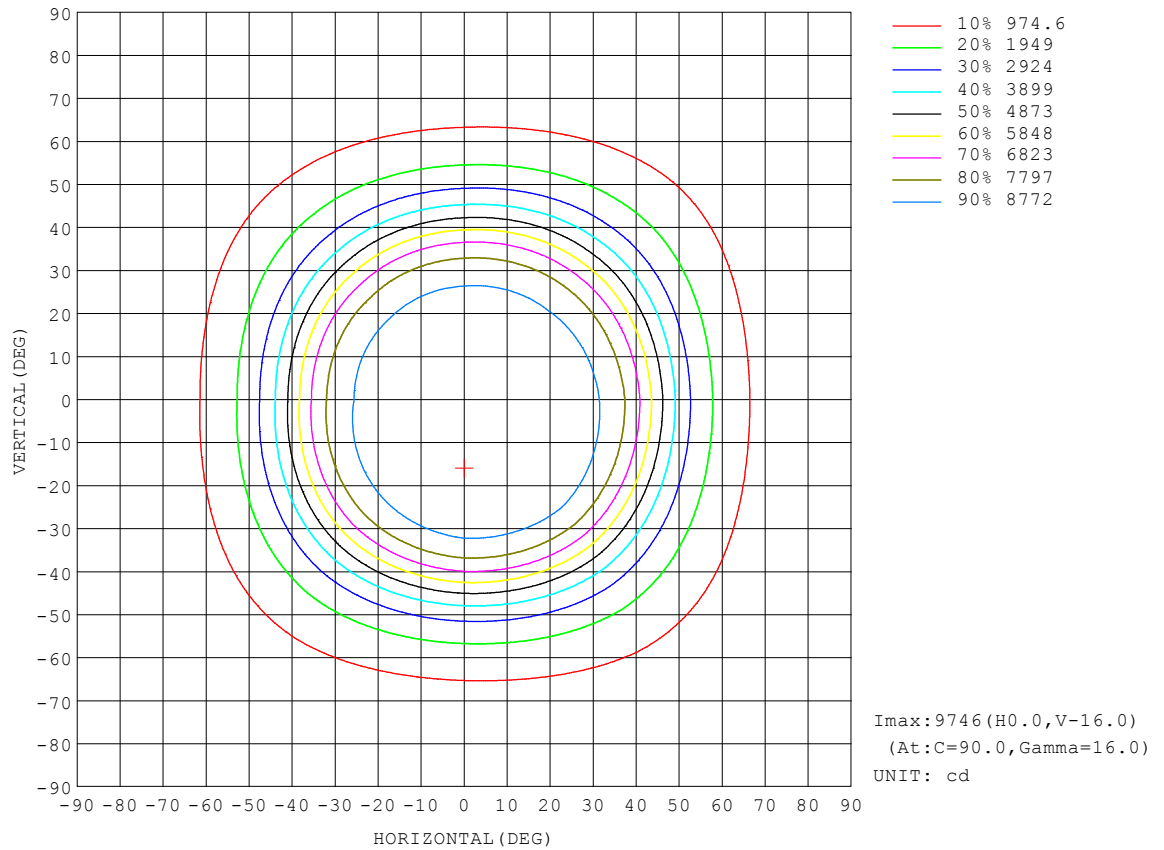
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	67	59	54	48
0.80	79	70	64	78	69	64	76	69	63	58
1.00	86	78	72	85	77	72	83	78	71	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	88	84	92	87	82	76
2.00	102	96	91	100	94	90	97	92	88	82
2.50	105	99	94	103	98	93	99	95	91	84
3.00	107	102	98	105	100	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	102	100	92
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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

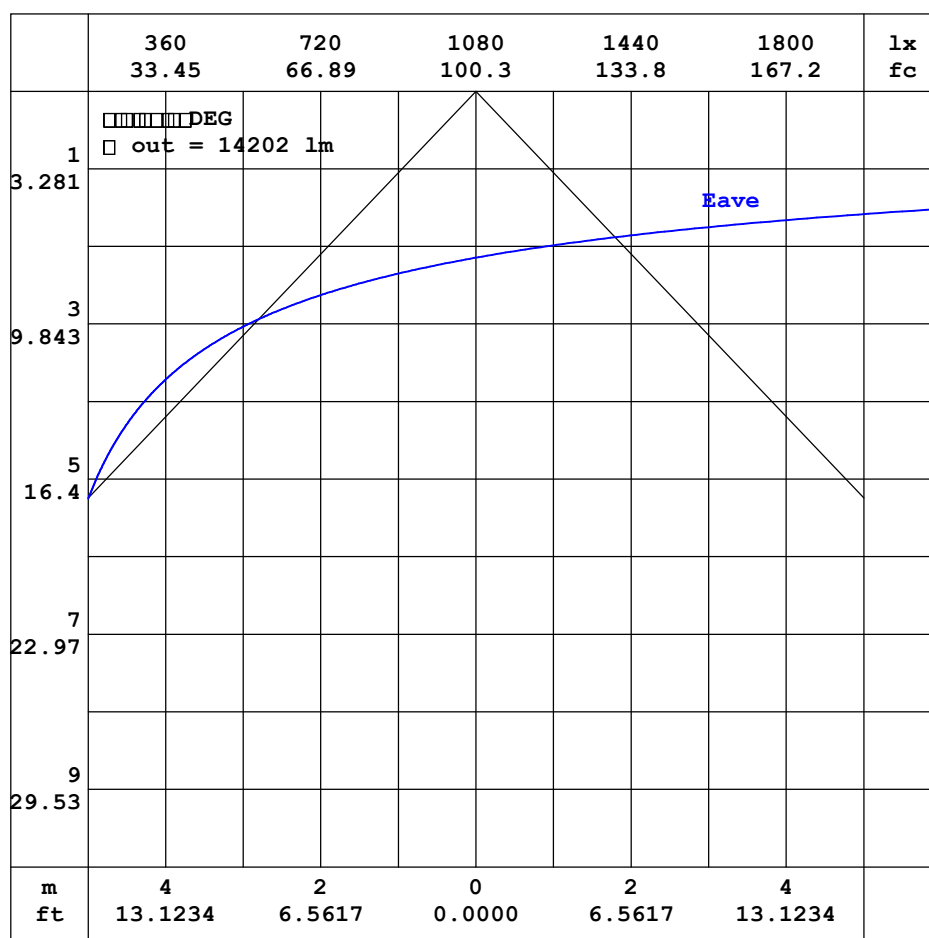


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm		
NAME: H17-120W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



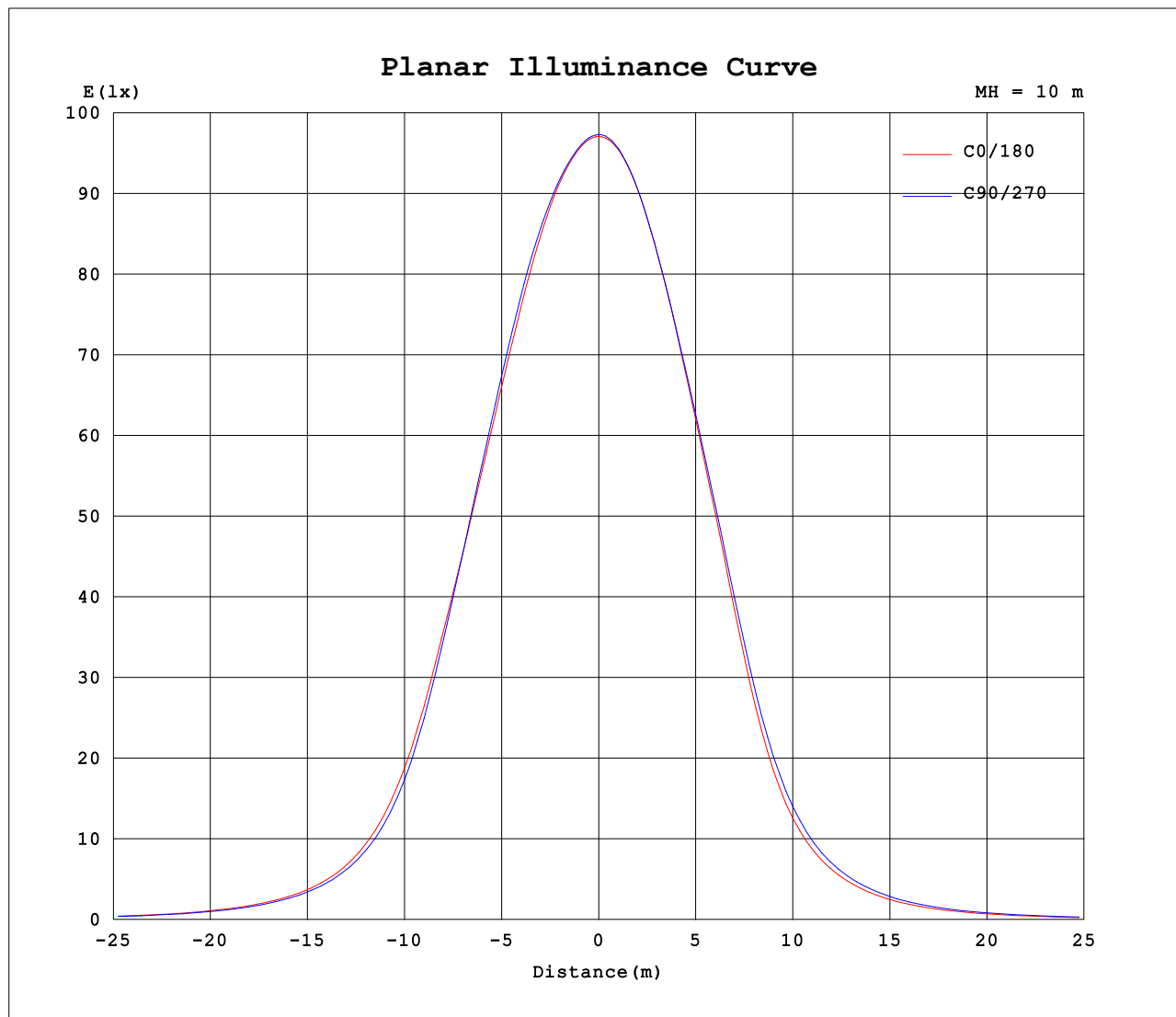
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.019A P:124.2W PF:0.9979 Freq:59.97Hz Lamp Flux:19454.7x1 lm								
NAME: H17-120W-5K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB LIGHTING INC					SUR.:0.23m			Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	9709	9720	9730	9740	9709	9720	9730	9740										
5	9701	9708	9722	9737	9696	9701	9712	9730										
10	9694	9705	9727	9724	9632	9618	9639	9681										
15	9662	9728	9745	9664	9489	9457	9489	9569										
20	9552	9713	9708	9510	9241	9201	9252	9367										
25	9332	9567	9517	9203	8836	8806	8899	9056										
30	8932	9194	9085	8660	8175	8136	8310	8557										
35	8265	8495	8262	7739	6990	6936	7263	7703										
40	7114	7210	6820	6160	5218	5242	5628	6212										
45	5319	5365	4907	4354	3569	3635	3969	4486										
50	3634	3687	3316	2953	2409	2480	2716	3064										
55	2424	2490	2235	2005	1628	1703	1872	2087										
60	1645	1685	1509	1347	1091	1146	1263	1413										
65	1100	1119	1004	897	722	759	841	943										
70	719	724	640	571	457	486	544	613										
75	434	414	363	312	253	274	321	350										
80	215	150	150	101	101	84.7	143	122										
85	42.8	16.7	16.2	11.7	9.59	12.5	20.1	16.5										
90	7.80	8.52	6.59	8.17	6.97	9.14	7.27	9.01										
95	7.23	8.28	6.95	8.31	7.81	8.91	7.63	8.76										
100	8.31	8.48	9.11	9.76	10.6	10.5	9.89	9.05										
105	11.1	11.1	12.1	12.8	14.1	14.0	13.3	12.0										
110	14.6	14.5	15.8	16.6	18.3	18.0	17.3	15.7										
115	18.8	18.4	20.1	20.8	23.1	22.6	22.1	20.0										
120	23.5	22.9	25.0	25.5	28.5	27.8	27.4	24.9										
125	28.7	27.6	30.1	30.3	34.1	33.1	33.2	30.1										
130	34.1	32.6	35.5	35.3	40.0	38.5	39.0	35.5										
135	39.4	37.7	40.3	40.3	45.7	44.0	44.7	41.0										
140	44.0	43.3	44.8	45.9	50.6	49.7	49.8	46.8										
145	48.3	48.5	49.0	51.0	55.0	55.6	54.2	52.5										
150	52.5	52.9	53.3	55.2	59.4	60.1	58.5	57.2										
155	57.1	57.1	58.0	59.3	64.0	64.2	62.9	61.8										
160	62.1	61.8	63.1	63.9	68.7	68.5	67.7	66.4										
165	67.3	66.7	68.3	68.6	73.1	72.7	72.4	70.8										
170	72.1	71.3	72.9	73.0	76.4	76.0	76.0	74.5										
175	76.1	75.3	76.6	76.3	78.4	77.8	78.2	77.2										
180	78.8	77.9	78.8	78.2	78.7	78.0	78.8	78.3										

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: