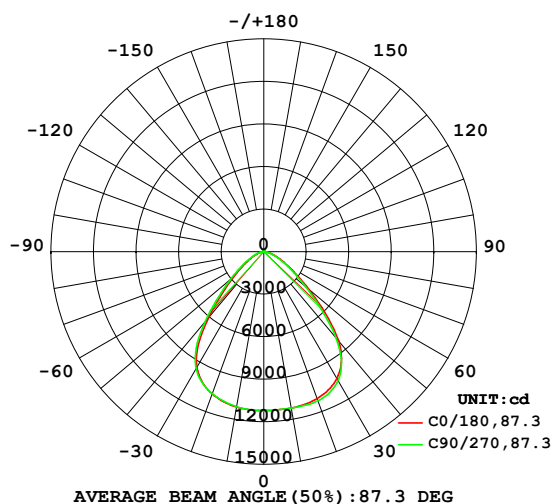


## LUMINAIRE PHOTOMETRIC TEST REPORT

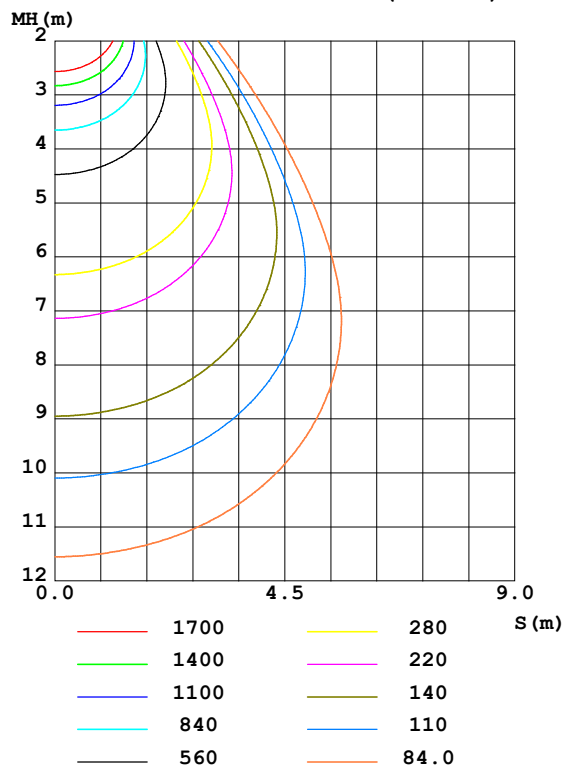
Test:U:122.1V I:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.67 lm/W			
MODEL		I <sub>max</sub> (cd)	11232	S/MH(C0/180)	1.17
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	22437	□ UP,DN(C0-180)	0.5,52.8
NOMINAL FLUX(lm)	22437.2	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:

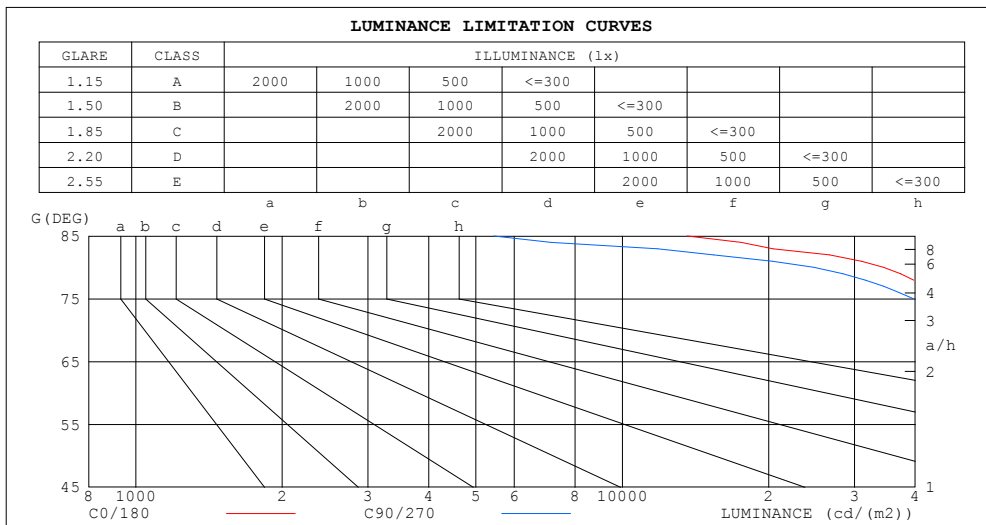
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1119	1119	1121	1120	1112	1109	1110	1115	0- 10	1068	1068	4.76,4.76
20	1103	1120	1119	1095	1067	1061	1065	1079	10- 20	3129	4197	18.7,18.7
30	1031	1061	1049	997.7	944.2	938.2	954.8	985.3	20- 30	4850	9047	40.3,40.3
40	821.3	832.2	791.9	710.5	602.4	604.4	642.8	715.3	30- 40	5471	14518	64.7,64.7
50	419.3	425.5	386.8	340.6	278.0	285.8	309.7	352.7	40- 50	3989	18507	82.5,82.5
60	189.8	194.5	175.9	155.4	126.0	132.2	143.9	162.5	50- 60	2165	20672	92.1,92.1
70	82.79	83.62	75.15	65.78	52.80	55.99	61.92	70.47	60- 70	1077	21749	96.9,96.9
80	24.84	17.29	17.86	11.78	11.70	9.876	15.76	14.06	70- 80	423.1	22172	98.8,98.8
90	0.8994	0.9843	0.7609	0.9428	0.8072	1.056	0.8402	1.037	80- 90	45.51	22218	99,99
100	0.9595	0.9799	1.040	1.125	1.223	1.215	1.151	1.047	90-100	10.36	22228	99.1,99.1
110	1.693	1.675	1.814	1.913	2.114	2.080	2.014	1.814	100-110	15.46	22244	99.1,99.1
120	2.721	2.649	2.866	2.942	3.290	3.206	3.172	2.869	110-120	23.81	22268	99.2,99.2
130	3.941	3.774	4.081	4.080	4.637	4.445	4.513	4.092	120-130	31.93	22300	99.4,99.4
140	5.087	5.003	5.157	5.287	5.848	5.719	5.754	5.401	130-140	37.08	22337	99.6,99.6
150	6.071	6.116	6.132	6.359	6.881	6.931	6.757	6.610	140-150	37.30	22374	99.7,99.7
160	7.169	7.135	7.253	7.369	7.968	7.922	7.831	7.634	150-160	32.22	22406	99.9,99.9
170	8.333	8.233	8.388	8.409	8.865	8.767	8.784	8.579	160-170	22.71	22429	100,100
180	9.109	9.002	9.098	9.009	9.115	9.007	9.098	9.012	170-180	8.376	22437	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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-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	.235 .134 .042	.228 .130 .041	.214 .123 .039	.202 .116 .037	.191 .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 .096 .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	.148 .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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm										
NAME: H17-150W-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	29.3	30.6	29.6	30.8	31.0	29.1	30.3	29.3	30.5	30.8
3H	29.6	30.8	29.9	31.0	31.3	29.4	30.5	29.7	30.8	31.0
4H	29.7	30.8	30.0	31.1	31.3	29.4	30.5	29.8	30.8	31.0
6H	29.7	30.8	30.1	31.0	31.3	29.4	30.4	29.8	30.7	31.0
8H	29.7	30.7	30.1	31.0	31.3	29.4	30.4	29.7	30.7	31.0
12H	29.7	30.6	30.0	30.9	31.2	29.3	30.3	29.7	30.6	30.9
4H 2H	29.4	30.5	29.7	30.7	31.0	29.2	30.3	29.5	30.5	30.8
3H	29.9	30.8	30.2	31.1	31.4	29.6	30.6	30.0	30.9	31.2
4H	30.0	30.9	30.4	31.2	31.5	29.8	30.6	30.1	30.9	31.3
6H	30.1	30.8	30.5	31.2	31.6	29.8	30.5	30.2	30.9	31.3
8H	30.1	30.8	30.5	31.1	31.5	29.8	30.4	30.2	30.8	31.2
12H	30.0	30.7	30.5	31.1	31.5	29.7	30.3	30.1	30.7	31.2
8H 4H	30.0	30.7	30.4	31.1	31.5	29.7	30.4	30.2	30.8	31.2
6H	30.1	30.7	30.6	31.1	31.5	29.8	30.4	30.3	30.8	31.2
8H	30.1	30.6	30.6	31.0	31.5	29.8	30.3	30.2	30.7	31.2
12H	30.1	30.5	30.6	31.0	31.5	29.7	30.2	30.2	30.6	31.1
12H 4H	30.0	30.6	30.4	31.0	31.4	29.7	30.3	30.1	30.7	31.2
6H	30.1	30.6	30.5	31.0	31.5	29.8	30.3	30.2	30.7	31.2
8H	30.1	30.5	30.6	31.0	31.4	29.7	30.2	30.2	30.6	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.3					+ 1.1 / - 1.5				
1.5H	+ 0.8 / - 0.9					+ 0.9 / - 1.0				
2.0H	+ 2.2 / - 1.7					+ 2.2 / - 1.7				

CIE Pub.117, 22437 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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

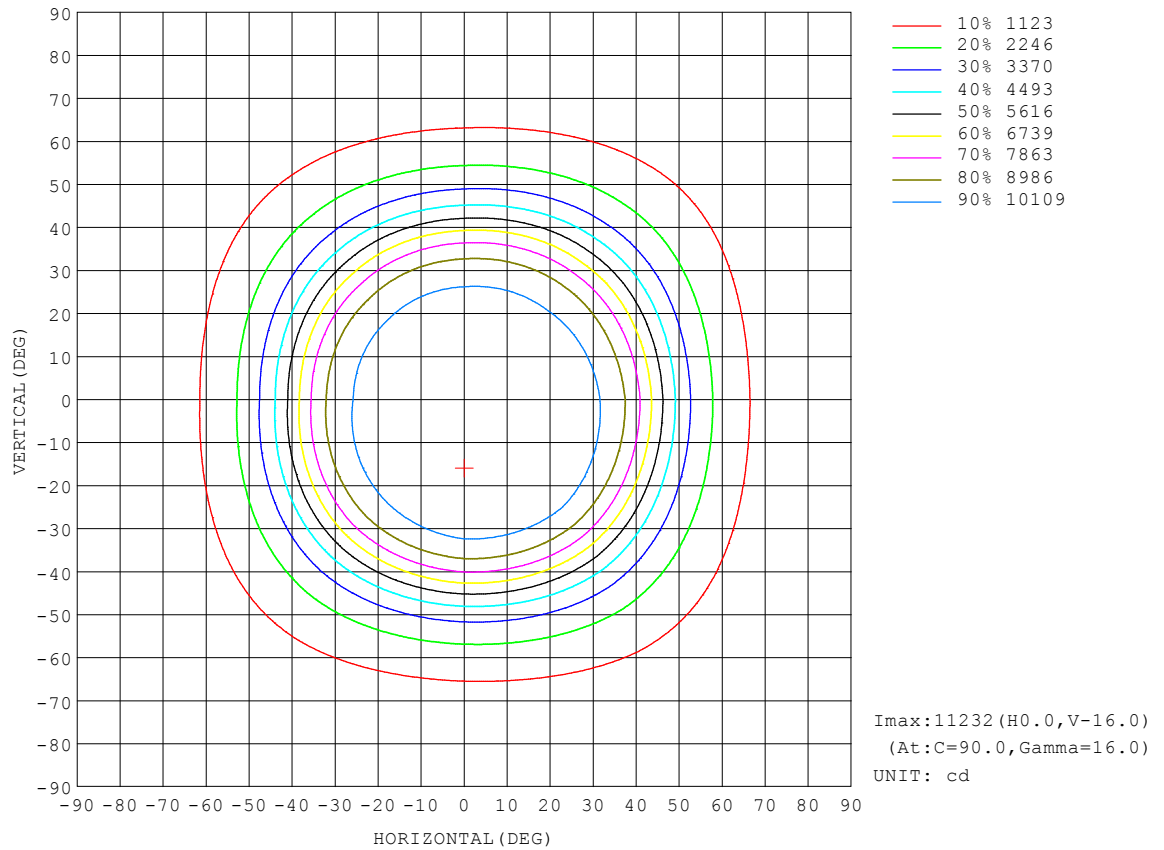
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	67	59	54	48
0.80	79	70	64	78	69	64	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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

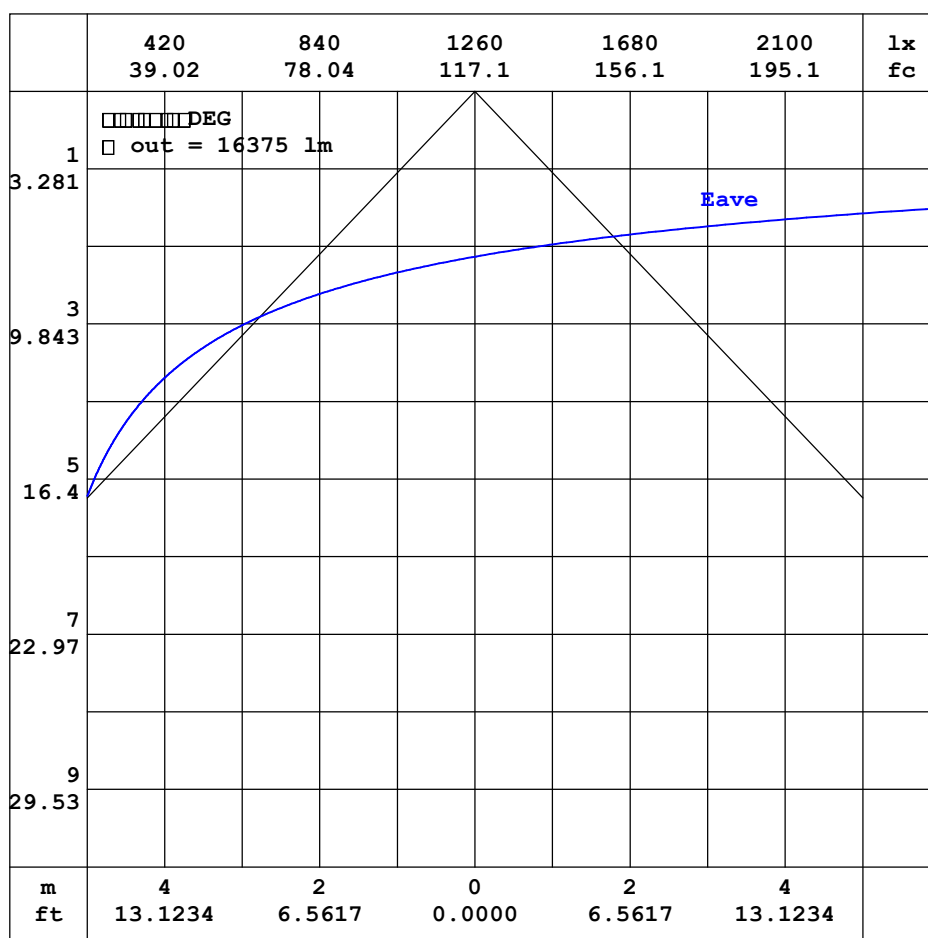


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



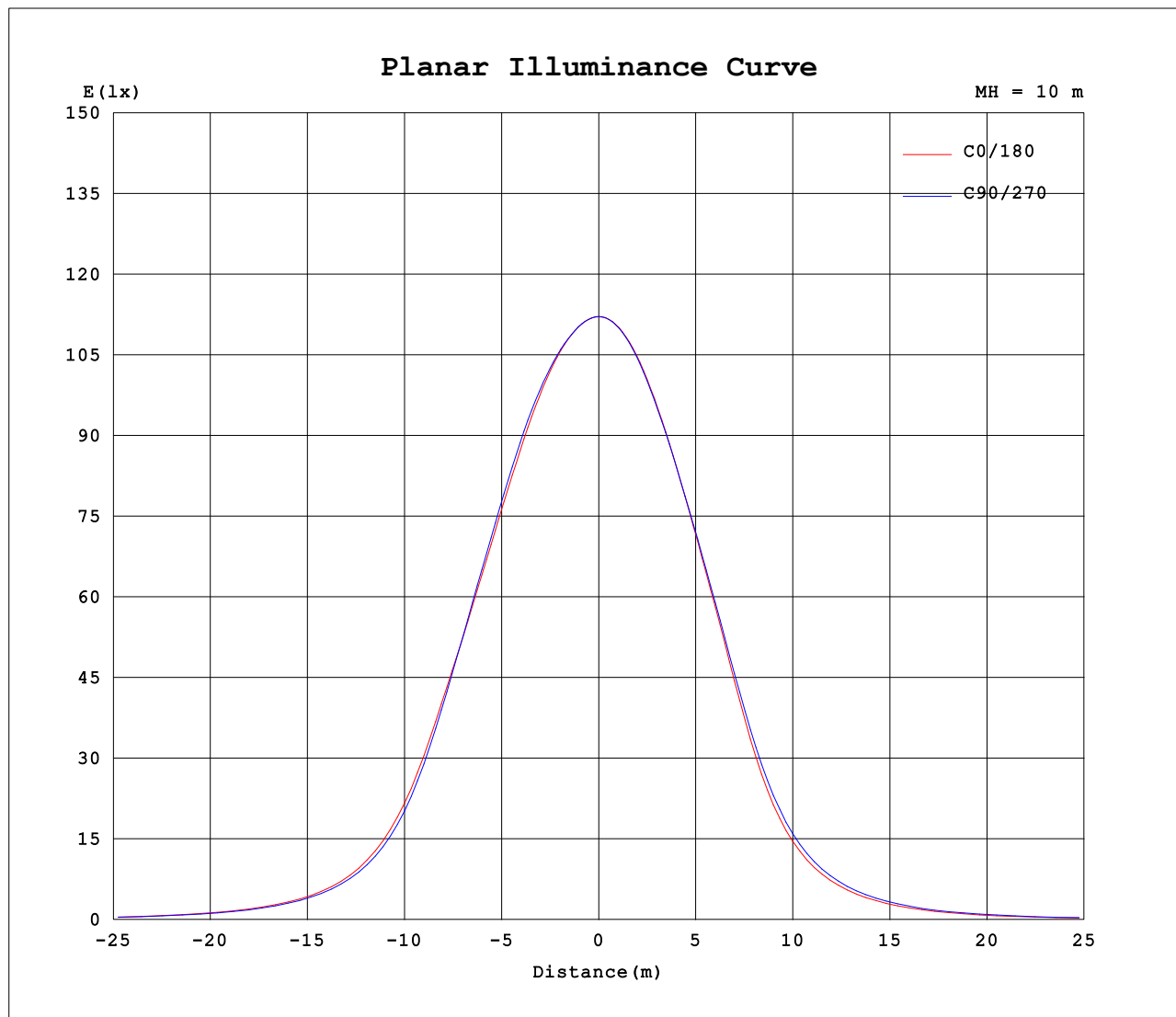
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:1.222A P:148.9W PF:0.9981 Freq:59.98Hz Lamp Flux:22437.2x1 lm		
NAME: H17-150W-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	1121	1121	1121	1122	1121	1121	1121	1122										
5	1120	1120	1120	1121	1120	1119	1119	1120										
10	1119	1119	1121	1120	1112	1109	1110	1115										
15	1116	1122	1123	1113	1096	1091	1093	1102										
20	1103	1120	1119	1095	1067	1061	1065	1079										
25	1078	1104	1098	1060	1020	1015	1024	1043										
30	1031	1061	1049	998	944	938	955	985										
35	954	980	956	892	807	800	832	887										
40	821	832	792	711	602	604	643	715										
45	614	619	572	503	412	419	453	517										
50	419	426	387	341	278	286	310	353										
55	280	287	261	231	189	197	213	240										
60	190	194	176	155	126	132	144	162										
65	127	129	117	103	83.4	87.5	95.8	108										
70	82.8	83.6	75.2	65.8	52.8	56.0	61.9	70.5										
75	50.1	47.8	42.6	36.0	29.2	31.6	36.4	40.2										
80	24.8	17.3	17.9	11.8	11.7	9.88	15.8	14.1										
85	4.91	1.92	1.97	1.36	1.11	1.44	2.18	1.89										
90	0.90	0.98	0.76	0.94	0.81	1.06	0.84	1.04										
95	0.84	0.96	0.80	0.96	0.90	1.03	0.88	1.01										
100	0.96	0.98	1.04	1.12	1.22	1.21	1.15	1.05										
105	1.28	1.28	1.39	1.48	1.63	1.61	1.54	1.39										
110	1.69	1.68	1.81	1.91	2.11	2.08	2.01	1.81										
115	2.18	2.13	2.31	2.40	2.67	2.60	2.56	2.31										
120	2.72	2.65	2.87	2.94	3.29	3.21	3.17	2.87										
125	3.31	3.20	3.47	3.50	3.94	3.81	3.83	3.46										
130	3.94	3.77	4.08	4.08	4.64	4.45	4.51	4.09										
135	4.55	4.35	4.64	4.65	5.28	5.07	5.19	4.73										
140	5.09	5.00	5.16	5.29	5.85	5.72	5.75	5.40										
145	5.58	5.61	5.64	5.88	6.35	6.40	6.25	6.03										
150	6.07	6.12	6.13	6.36	6.88	6.93	6.76	6.61										
155	6.59	6.60	6.66	6.83	7.41	7.41	7.27	7.09										
160	7.17	7.14	7.25	7.37	7.97	7.92	7.83	7.63										
165	7.77	7.70	7.85	7.91	8.48	8.40	8.36	8.15										
170	8.33	8.23	8.39	8.41	8.86	8.77	8.78	8.58										
175	8.80	8.70	8.83	8.79	9.08	8.99	9.04	8.89										
180	9.11	9.00	9.10	9.01	9.12	9.01	9.10	9.01										

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: