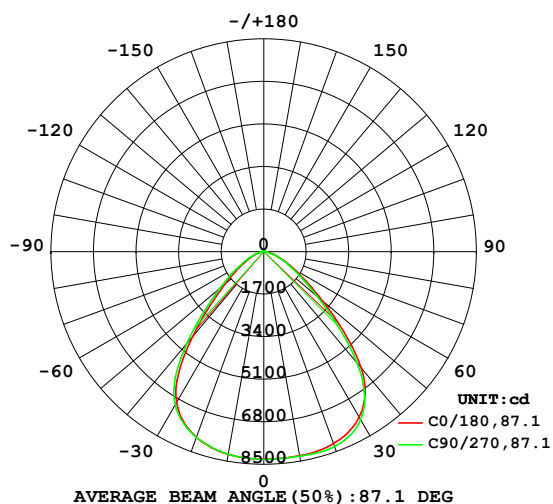


## LUMINAIRE PHOTOMETRIC TEST REPORT

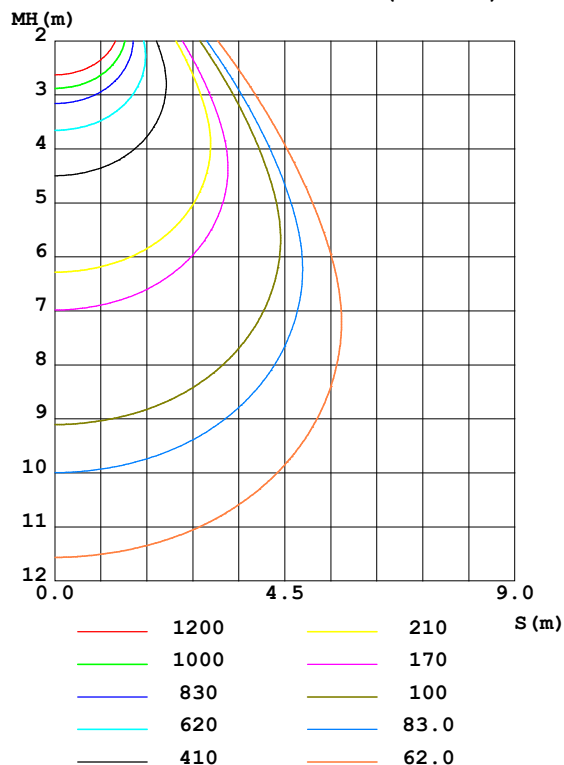
Test:U:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.63 lm/W			
MODEL		I <sub>max</sub> (cd)	8317	S/MH(C0/180)	1.17
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	16564	□ UP,DN(C0-180)	0.5,52.7
NOMINAL FLUX(lm)	16564.4	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:

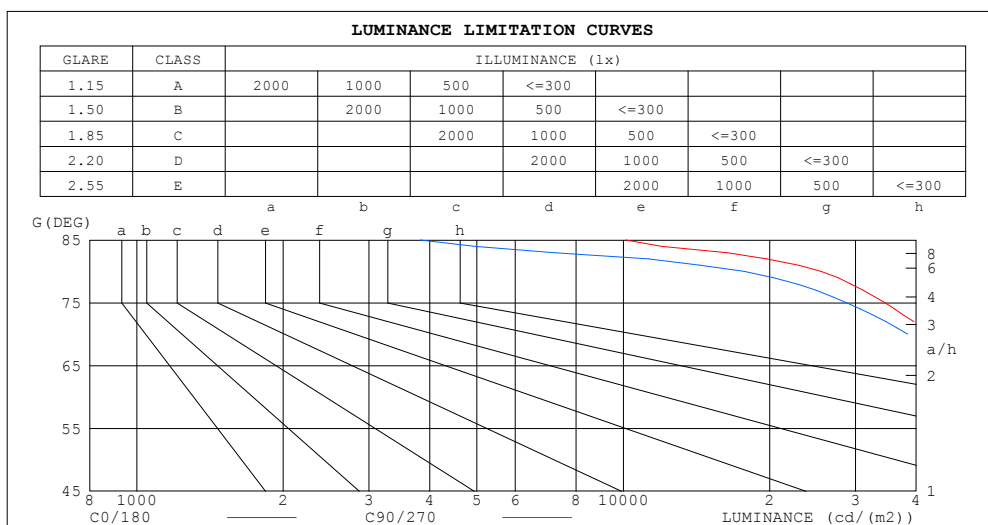
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	8279	8283	8296	8291	8227	8207	8220	8254	0- 10	790.1	790.1	4.77,4.77
20	8159	8293	8285	8106	7891	7849	7893	7987	10- 20	2316	3106	18.8,18.8
30	7629	7848	7745	7374	6975	6928	7081	7293	20- 30	3589	6695	40.4,40.4
40	6059	6140	5794	5228	4428	4450	4780	5274	30- 40	4039	10734	64.8,64.8
50	3084	3133	2811	2504	2047	2106	2307	2599	40- 50	2935	13669	82.5,82.5
60	1400	1423	1280	1145	929.2	973.7	1074	1201	50- 60	1593	15262	92.1,92.1
70	609.9	616.8	545.1	486.3	390.1	413.5	463.9	522.9	60- 70	794.2	16056	96.9,96.9
80	183.7	129.5	127.7	86.81	85.93	74.64	122.5	104.6	70- 80	312.7	16369	98.8,98.8
90	6.623	7.196	5.585	6.913	5.922	7.794	6.172	7.663	80- 90	33.65	16403	99,99
100	7.048	7.173	7.736	8.260	9.014	8.954	8.385	7.665	90-100	7.597	16410	99.1,99.1
110	12.43	12.33	13.43	14.09	15.58	15.31	14.72	13.33	100-110	11.37	16422	99.1,99.1
120	20.03	19.49	21.24	21.66	24.24	23.65	23.33	21.15	110-120	17.54	16439	99.2,99.2
130	29.04	27.78	30.22	30.09	34.10	32.85	33.14	30.22	120-130	23.54	16463	99.4,99.4
140	37.52	36.89	38.15	39.07	43.15	42.36	42.44	39.83	130-140	27.36	16490	99.6,99.6
150	44.82	45.15	45.40	47.02	50.75	51.26	49.80	48.98	140-150	27.55	16518	99.7,99.7
160	52.98	52.68	53.79	54.48	58.69	58.37	57.71	56.50	150-160	23.81	16541	99.9,99.9
170	61.52	60.84	62.11	62.23	65.28	64.79	64.76	63.48	160-170	16.77	16558	100,100
180	67.17	66.47	67.16	66.65	67.17	66.52	67.16	66.70	170-180	6.187	16564	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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm					
NAME: H17-100W-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	.133	.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	.183	.099	.030	.176	.095	.029	
5.0	.194	.099	.029	.190	.097	.028	.182	.095	.028	.174	.092	.027	.167	.089	.027	
6.0	.183	.092	.026	.179	.091	.026	.172	.088	.026	.166	.086	.025	.159	.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	.077	.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	.147	.071	.020	.145	.070	.020	.140	.069	.019	.136	.067	.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	.015	.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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm										
NAME: H17-100W-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	28.2	29.5	28.5	29.7	29.9	28.0	29.2	28.2	29.4	29.6
3H	28.6	29.7	28.9	30.0	30.2	28.3	29.4	28.6	29.7	29.9
4H	28.7	29.7	29.0	30.0	30.3	28.3	29.4	28.6	29.7	29.9
6H	28.7	29.7	29.0	30.0	30.3	28.3	29.3	28.6	29.6	29.9
8H	28.7	29.6	29.0	29.9	30.2	28.3	29.3	28.6	29.5	29.8
12H	28.6	29.6	29.0	29.9	30.2	28.2	29.2	28.6	29.5	29.8
4H 2H	28.3	29.4	28.6	29.7	29.9	28.1	29.2	28.4	29.4	29.7
3H	28.8	29.7	29.1	30.0	30.3	28.5	29.5	28.9	29.8	30.1
4H	29.0	29.8	29.3	30.1	30.5	28.6	29.5	29.0	29.8	30.2
6H	29.0	29.8	29.4	30.1	30.5	28.7	29.4	29.1	29.8	30.2
8H	29.0	29.7	29.4	30.1	30.5	28.6	29.3	29.1	29.7	30.1
12H	29.0	29.6	29.4	30.0	30.4	28.6	29.2	29.0	29.6	30.0
8H 4H	28.9	29.6	29.4	30.0	30.4	28.6	29.3	29.1	29.7	30.1
6H	29.0	29.6	29.5	30.0	30.5	28.7	29.3	29.1	29.7	30.1
8H	29.0	29.5	29.5	30.0	30.4	28.7	29.2	29.1	29.6	30.1
12H	29.0	29.4	29.5	29.9	30.4	28.6	29.1	29.1	29.5	30.0
12H 4H	28.9	29.5	29.3	29.9	30.3	28.6	29.2	29.0	29.6	30.1
6H	29.0	29.5	29.5	29.9	30.4	28.7	29.2	29.1	29.6	30.1
8H	29.0	29.4	29.5	29.9	30.4	28.6	29.1	29.1	29.5	30.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.3					+ 1.1 / - 1.5				
1.5H	+ 0.9 / - 0.9					+ 1.0 / - 1.0				
2.0H	+ 2.2 / - 1.7					+ 2.1 / - 1.7				

CIE Pub.117, 16564 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 9.8$ )

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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

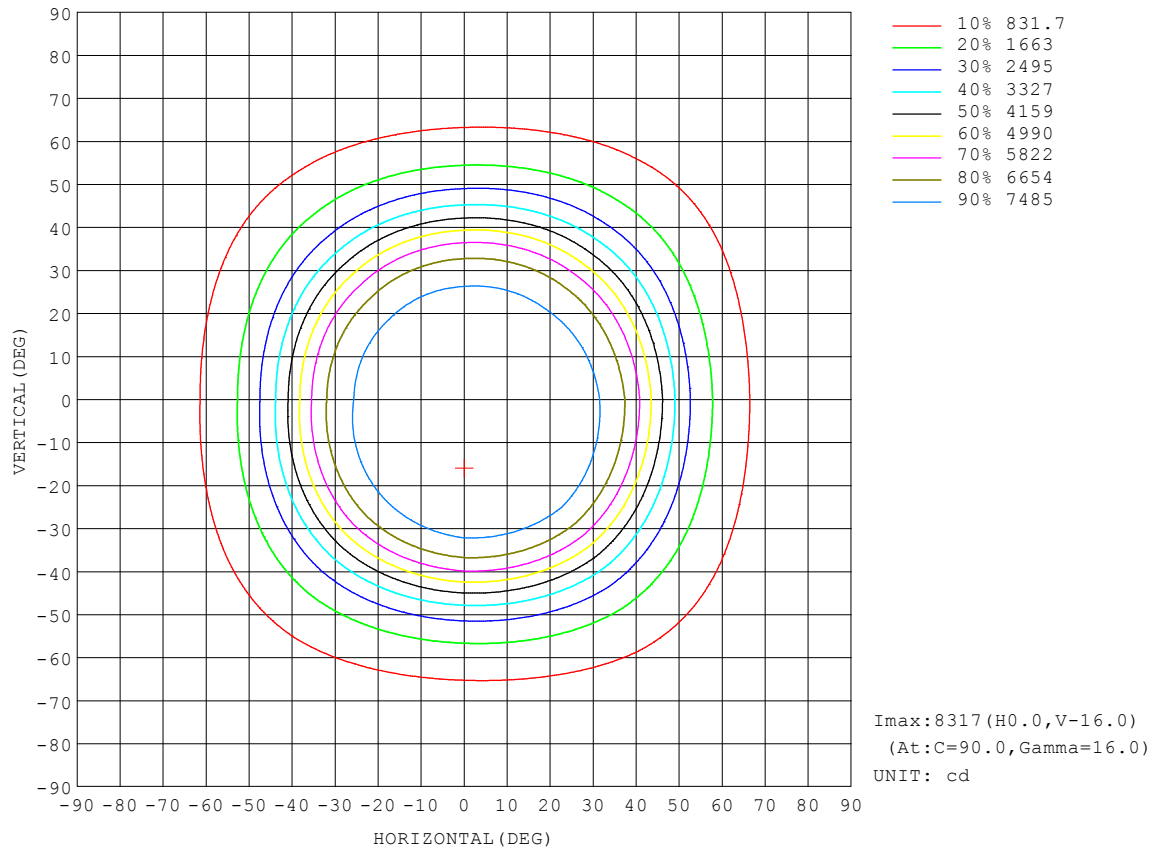
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	69	64	76	69	63	58
1.00	87	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	89	84	92	87	83	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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:

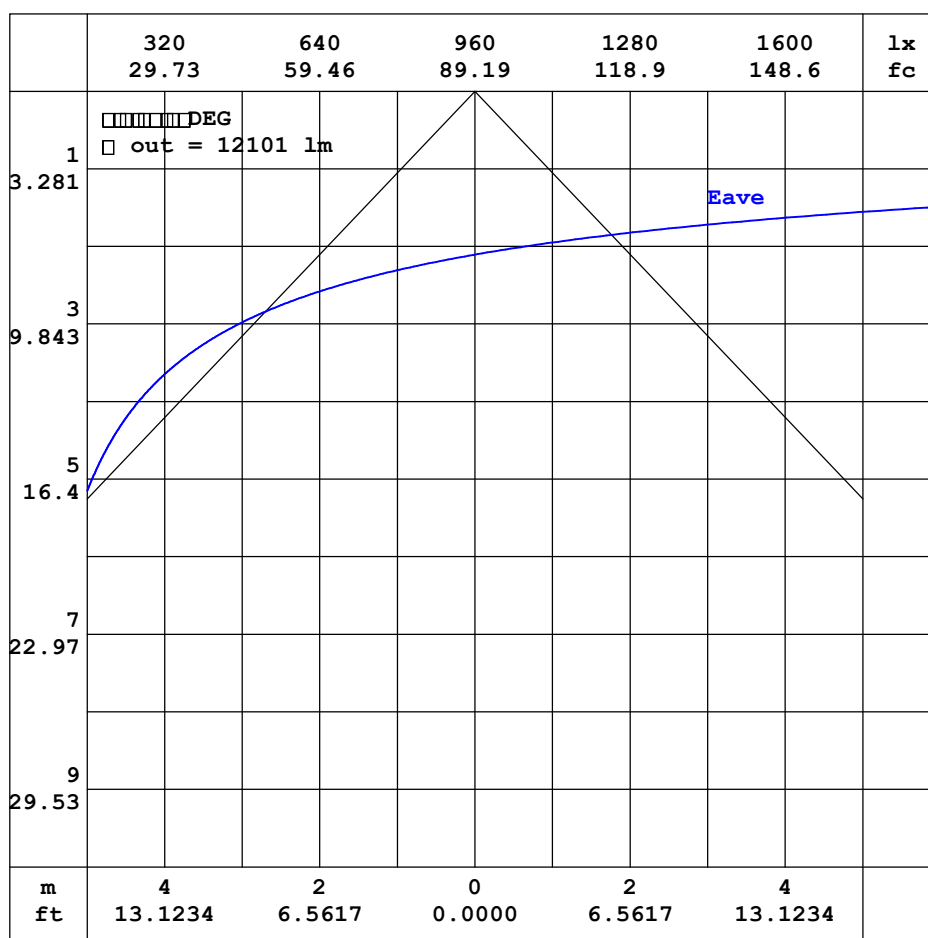


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-30

☐ 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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23m	Shielding Angle:



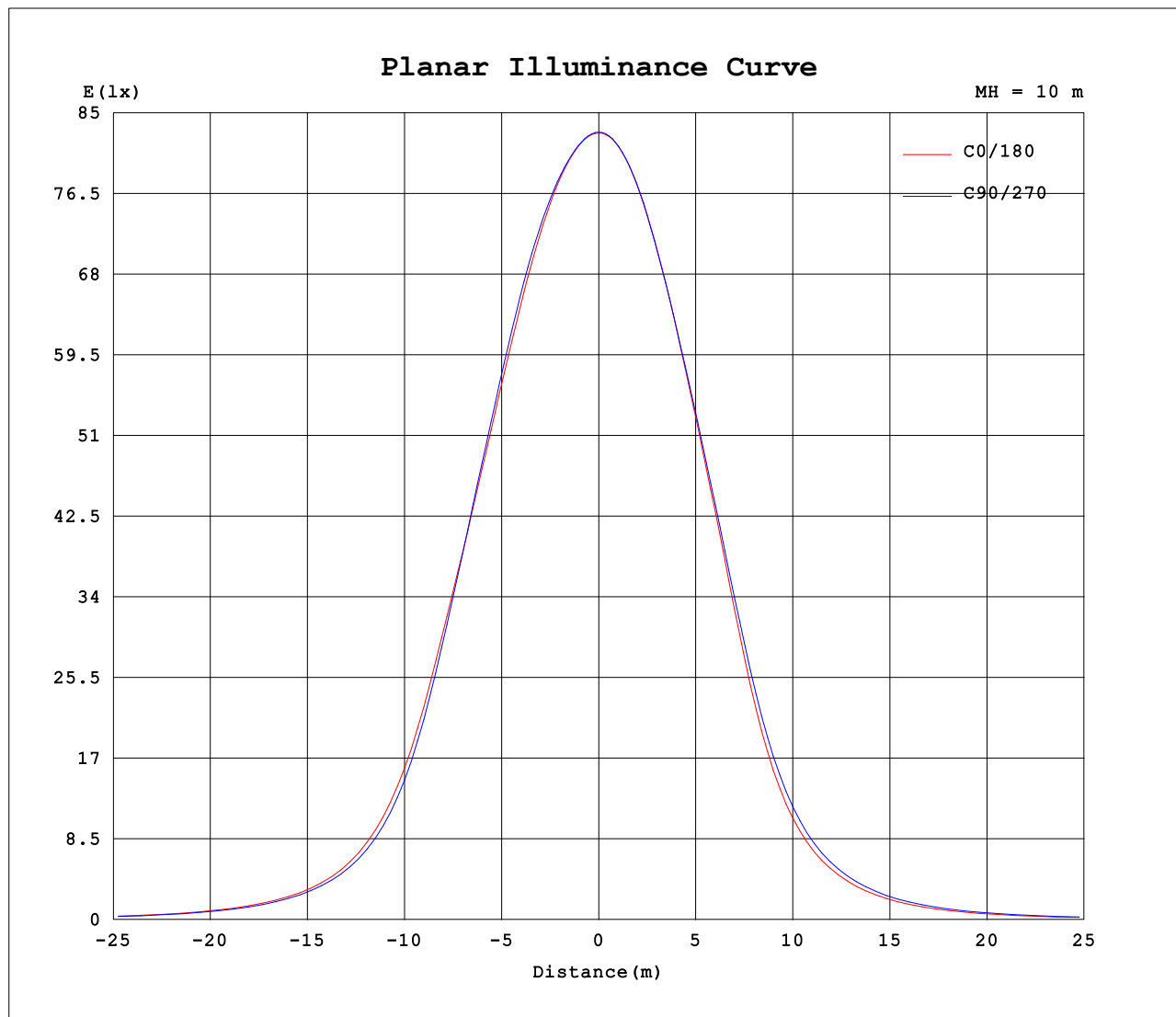
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:122.2V I:0.8305A P:101.2W PF:0.9976 Freq:59.98Hz Lamp Flux:16564.4x1 lm		
NAME: H17-100W-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	8289	8293	8298	8301	8289	8293	8298	8301										
5	8285	8282	8290	8301	8280	8278	8283	8292										
10	8279	8283	8296	8291	8227	8207	8220	8254										
15	8251	8304	8315	8240	8103	8071	8093	8160										
20	8159	8293	8285	8106	7891	7849	7893	7987										
25	7969	8167	8119	7841	7543	7510	7587	7720										
30	7629	7848	7745	7374	6975	6928	7081	7293										
35	7054	7243	7032	6586	5948	5897	6175	6554										
40	6059	6140	5794	5228	4428	4450	4780	5274										
45	4520	4560	4161	3690	3030	3083	3369	3800										
50	3084	3133	2811	2504	2047	2106	2307	2599										
55	2062	2116	1898	1703	1385	1448	1581	1772										
60	1400	1423	1280	1145	929	974	1074	1201										
65	936	952	853	764	616	643	716	803										
70	610	617	545	486	390	414	464	523										
75	371	354	309	266	216	233	274	299										
80	184	130	128	86.8	85.9	74.6	122	105										
85	36.6	14.3	13.8	9.98	8.16	10.6	17.3	14.1										
90	6.62	7.20	5.58	6.91	5.92	7.79	6.17	7.66										
95	6.13	6.99	5.88	7.03	6.63	7.56	6.45	7.42										
100	7.05	7.17	7.74	8.26	9.01	8.95	8.39	7.67										
105	9.42	9.44	10.3	10.9	12.0	11.9	11.3	10.2										
110	12.4	12.3	13.4	14.1	15.6	15.3	14.7	13.3										
115	16.0	15.7	17.1	17.7	19.7	19.2	18.8	17.0										
120	20.0	19.5	21.2	21.7	24.2	23.7	23.3	21.2										
125	24.4	23.5	25.7	25.8	29.0	28.1	28.2	25.5										
130	29.0	27.8	30.2	30.1	34.1	32.8	33.1	30.2										
135	33.6	32.1	34.3	34.3	38.9	37.5	38.1	34.9										
140	37.5	36.9	38.2	39.1	43.1	42.4	42.4	39.8										
145	41.2	41.4	41.8	43.5	46.9	47.3	46.2	44.5										
150	44.8	45.2	45.4	47.0	50.7	51.3	49.8	49.0										
155	48.7	48.7	49.4	50.6	54.6	54.8	53.6	52.6										
160	53.0	52.7	53.8	54.5	58.7	58.4	57.7	56.5										
165	57.5	56.9	58.2	58.5	62.4	62.0	61.7	60.3										
170	61.5	60.8	62.1	62.2	65.3	64.8	64.8	63.5										
175	64.9	64.2	65.3	65.1	66.9	66.3	66.7	65.8										
180	67.2	66.5	67.2	66.7	67.2	66.5	67.2	66.7										

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: