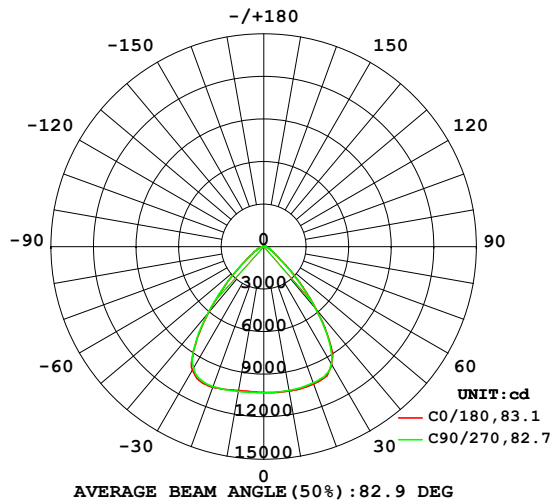


LUMINAIRE PHOTOMETRIC TEST REPORT

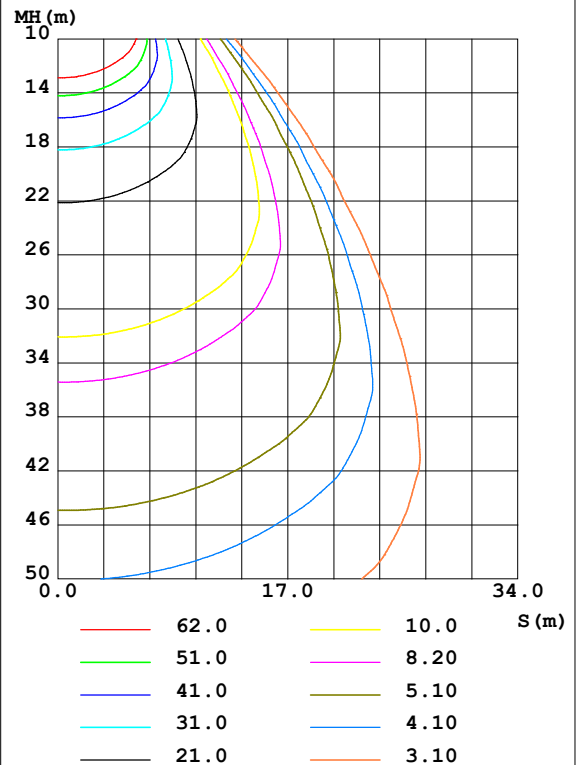
Test:U:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.58 lm/W			
MODEL		I _{max} (cd)	10582	S/MH(C0/180)	1.21
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	18999	□ UP,DN(C0-180)	1.0,48.1
NOMINAL FLUX(lm)	18998.7	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.0,50.0
LAMPS INSIDE	1	□ up(%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	98.1	CIBSE SHR MAX	1.25

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:2022-09-01

□ 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	1035	1030	1029	1030	1031	1031	1037	1039	0- 10	984.0	984.0	5.18, 5.18
20	1030	1024	1022	1036	1055	1056	1050	1040	10- 20	2939	3923	20.6, 20.6
30	957.0	942.7	956.1	978.0	1007	1015	989.2	979.6	20- 30	4726	8649	45.5, 45.5
40	577.8	552.6	565.8	609.3	604.0	640.6	617.0	573.5	30- 40	5054	13703	72.1, 72.1
50	201.2	186.6	186.7	221.6	218.3	230.5	221.4	200.1	40- 50	2909	16612	87.4, 87.4
60	77.55	67.98	73.22	82.09	84.18	85.31	78.57	77.76	50- 60	1115	17727	93.3, 93.3
70	40.82	37.52	43.07	46.18	47.81	45.87	41.99	41.06	60- 70	556.7	18284	96.2, 96.2
80	11.85	10.80	11.38	11.83	11.78	12.84	11.99	11.32	70- 80	264.2	18548	97.6, 97.6
90	5.012	5.049	5.328	4.995	4.874	5.135	5.091	4.450	80- 90	87.34	18635	98.1, 98.1
100	3.596	3.766	3.878	3.689	3.598	3.455	3.355	3.363	90-100	43.34	18678	98.3, 98.3
110	4.428	4.729	4.599	4.503	4.605	4.355	4.085	4.156	100-110	41.90	18720	98.5, 98.5
120	5.746	5.632	5.457	5.189	5.013	5.522	5.687	5.906	110-120	50.62	18771	98.8, 98.8
130	6.479	6.399	6.393	6.371	6.590	6.489	6.514	6.666	120-130	52.17	18823	99.1, 99.1
140	7.506	7.323	7.415	7.292	7.612	7.390	7.526	7.164	130-140	54.22	18877	99.4, 99.4
150	7.791	8.044	7.924	7.907	7.875	7.950	7.875	7.864	140-150	48.20	18926	99.6, 99.6
160	8.627	8.643	8.870	8.584	8.778	8.643	8.726	8.667	150-160	38.04	18964	99.8, 99.8
170	9.568	9.402	9.751	9.540	9.688	9.410	9.636	9.453	160-170	25.84	18989	100, 100
180	10.23	9.858	10.21	9.950	10.23	9.857	10.21	9.935	170-180	9.297	18999	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

Conical surface Flux(90deg): 15464 lm

%lum = 81.4%

%lamp = 81.4%

Conical surface Flux(120deg): 17727 lm

%lum = 93.3%

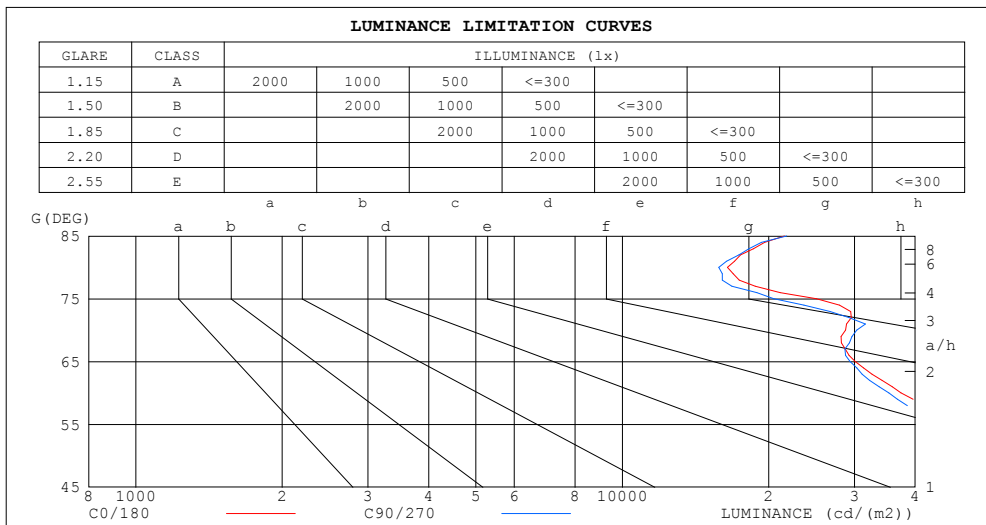
%lamp = 93.3%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Marvin Ma
 Test Date: 2022-09-01

□ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21533	21770
80	16450	15796
75	25073	20503
70	28759	30347
65	30102	29398
60	37374	35286
55	47355	46177
50	75428	70002
45	124735	120072

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm					
NAME: H17-RPC-120W-4K			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: RAB LIGHTING INC			SUR.:0.23		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	.223	.127	.040	.216	.123	.039	.202	.116	.037	.189	.109	.035	.177	.103	.033	
2.0	.215	.118	.036	.209	.115	.035	.197	.109	.034	.186	.104	.033	.175	.099	.031	
3.0	.204	.109	.033	.199	.107	.032	.188	.102	.031	.179	.098	.030	.170	.094	.029	
4.0	.194	.101	.030	.189	.099	.029	.180	.095	.028	.171	.092	.028	.163	.089	.027	
5.0	.183	.093	.027	.179	.092	.027	.171	.089	.026	.163	.086	.026	.156	.083	.025	
6.0	.174	.087	.025	.170	.086	.025	.163	.083	.024	.156	.081	.024	.149	.079	.023	
7.0	.165	.082	.023	.161	.080	.023	.155	.078	.023	.149	.076	.022	.143	.074	.022	
8.0	.157	.077	.022	.153	.076	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	
9.0	.149	.072	.020	.146	.071	.020	.141	.070	.020	.136	.068	.019	.131	.066	.019	
10.0	.142	.068	.019	.139	.067	.019	.134	.066	.019	.130	.064	.018	.125	.063	.018	

<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	.205	.205	.205	.175	.175	.175	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.189	.172	.156	.162	.147	.134	.111	.101	.093	.064	.059	.054	.020	.019	.017	
2.0	.177	.147	.122	.151	.127	.106	.104	.088	.074	.060	.051	.043	.019	.016	.014	
3.0	.167	.129	.098	.143	.111	.085	.098	.077	.060	.057	.045	.035	.018	.015	.012	
4.0	.158	.115	.082	.136	.099	.071	.093	.069	.050	.054	.040	.030	.017	.013	.010	
5.0	.151	.104	.069	.129	.090	.060	.089	.063	.042	.052	.037	.025	.017	.012	.008	
6.0	.144	.095	.060	.124	.082	.052	.085	.058	.037	.049	.034	.022	.016	.011	.007	
7.0	.138	.088	.053	.118	.076	.046	.082	.053	.033	.048	.031	.019	.015	.010	.006	
8.0	.132	.082	.048	.114	.071	.041	.079	.050	.029	.046	.029	.018	.015	.010	.006	
9.0	.127	.077	.043	.109	.067	.038	.076	.047	.027	.044	.028	.016	.014	.009	.005	
10.0	.122	.073	.040	.105	.063	.035	.073	.044	.025	.043	.026	.015	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

☐ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm										
NAME: H17-RPC-120W-4K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB LIGHTING INC					SUR.:0.23			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	25.8	26.9	26.0	27.2	27.4	25.6	26.8	25.9	27.0	27.2
3H	25.9	27.0	26.2	27.2	27.5	25.8	26.9	26.1	27.1	27.4
4H	26.0	27.0	26.3	27.3	27.6	25.9	26.9	26.2	27.2	27.4
6H	26.0	27.0	26.3	27.2	27.5	25.9	26.8	26.2	27.1	27.4
8H	26.0	26.9	26.3	27.2	27.5	25.8	26.8	26.2	27.1	27.4
12H	26.0	26.9	26.3	27.2	27.5	25.8	26.7	26.2	27.0	27.4
4H 2H	25.6	26.7	26.0	26.9	27.2	25.5	26.5	25.8	26.8	27.1
3H	25.9	26.8	26.3	27.1	27.5	25.9	26.7	26.2	27.0	27.4
4H	26.1	26.9	26.5	27.2	27.6	26.0	26.8	26.4	27.1	27.5
6H	26.1	26.8	26.5	27.2	27.6	26.0	26.7	26.4	27.1	27.5
8H	26.1	26.8	26.6	27.2	27.6	26.0	26.7	26.4	27.0	27.5
12H	26.2	26.8	26.6	27.2	27.6	26.0	26.6	26.5	27.0	27.5
8H 4H	26.1	26.7	26.5	27.1	27.5	25.9	26.6	26.4	27.0	27.4
6H	26.1	26.7	26.6	27.1	27.5	26.0	26.5	26.5	26.9	27.4
8H	26.2	26.6	26.7	27.1	27.6	26.0	26.5	26.5	27.0	27.4
12H	26.2	26.6	26.7	27.1	27.6	26.1	26.5	26.6	27.0	27.5
12H 4H	26.0	26.6	26.5	27.0	27.5	25.9	26.5	26.3	26.9	27.3
6H	26.1	26.6	26.6	27.0	27.5	26.0	26.4	26.4	26.9	27.4
8H	26.2	26.6	26.7	27.0	27.6	26.0	26.4	26.5	26.9	27.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 2.6					+ 1.6 / - 2.7				
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4				
2.0H	+ 3.7 / - 2.3					+ 3.7 / - 2.2				

CIE Pub.117, 18999 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.2$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

☐ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

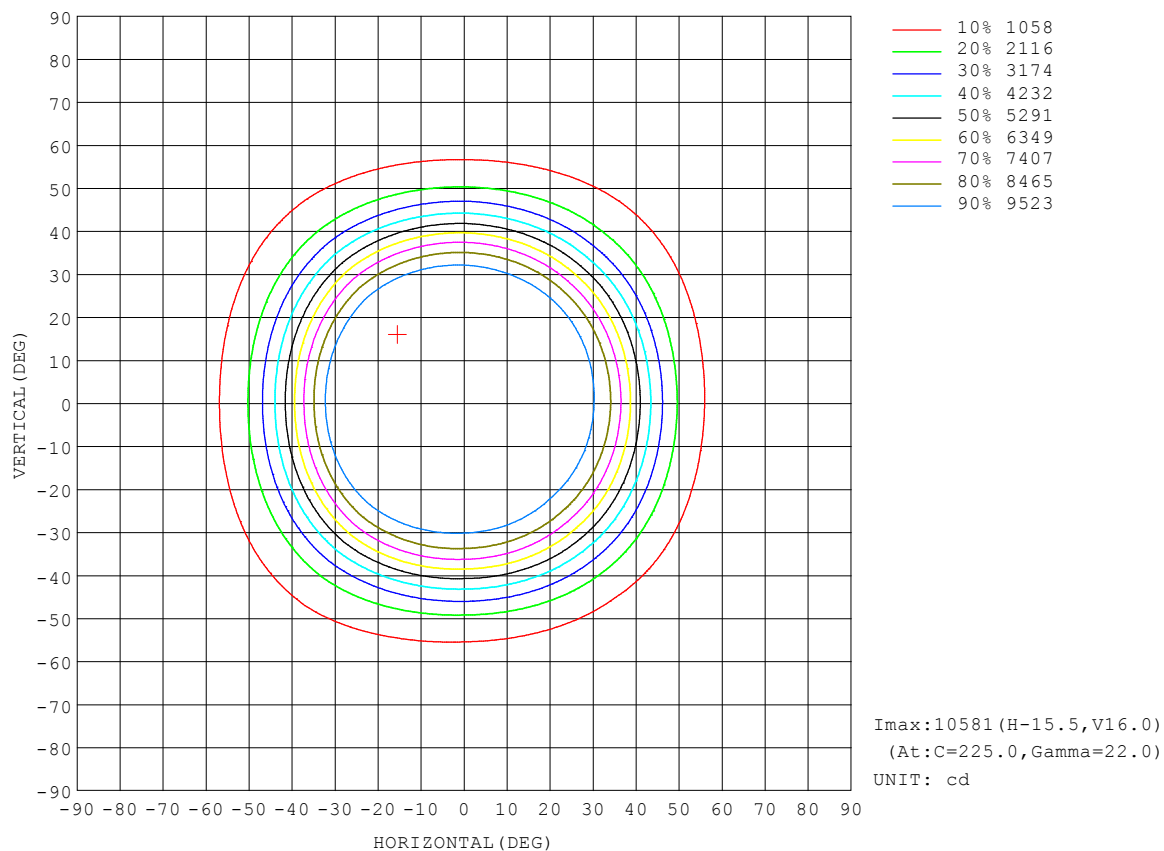
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	74	69	81	74	69	64
1.00	90	82	77	89	81	77	87	82	76	71
1.25	95	88	83	94	87	83	92	86	82	76
1.50	99	92	88	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	98	94	91	84
2.50	106	101	96	104	99	95	100	96	93	86
3.00	108	103	100	106	102	98	102	99	96	88
4.00	111	107	104	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	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: 2022-09-01

☐ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

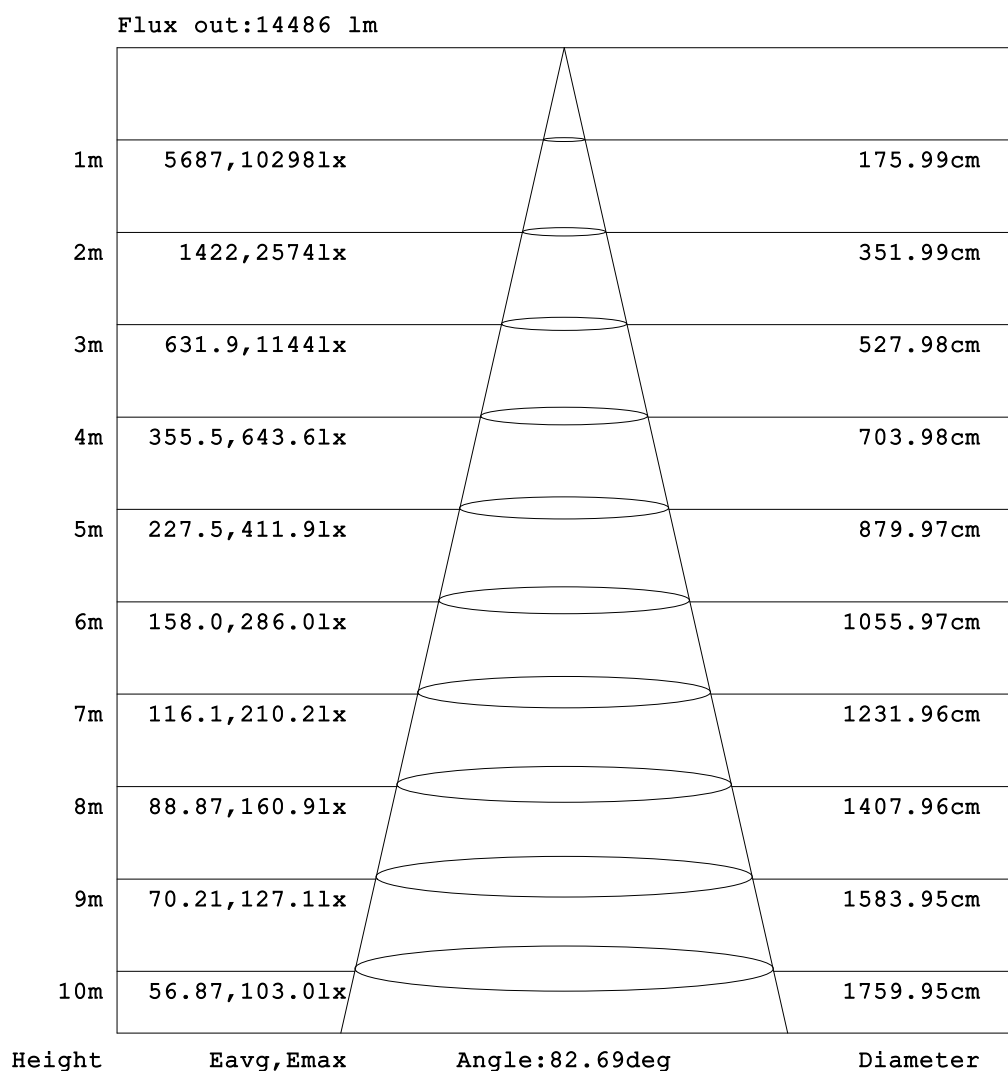


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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 Figure

Test:U:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

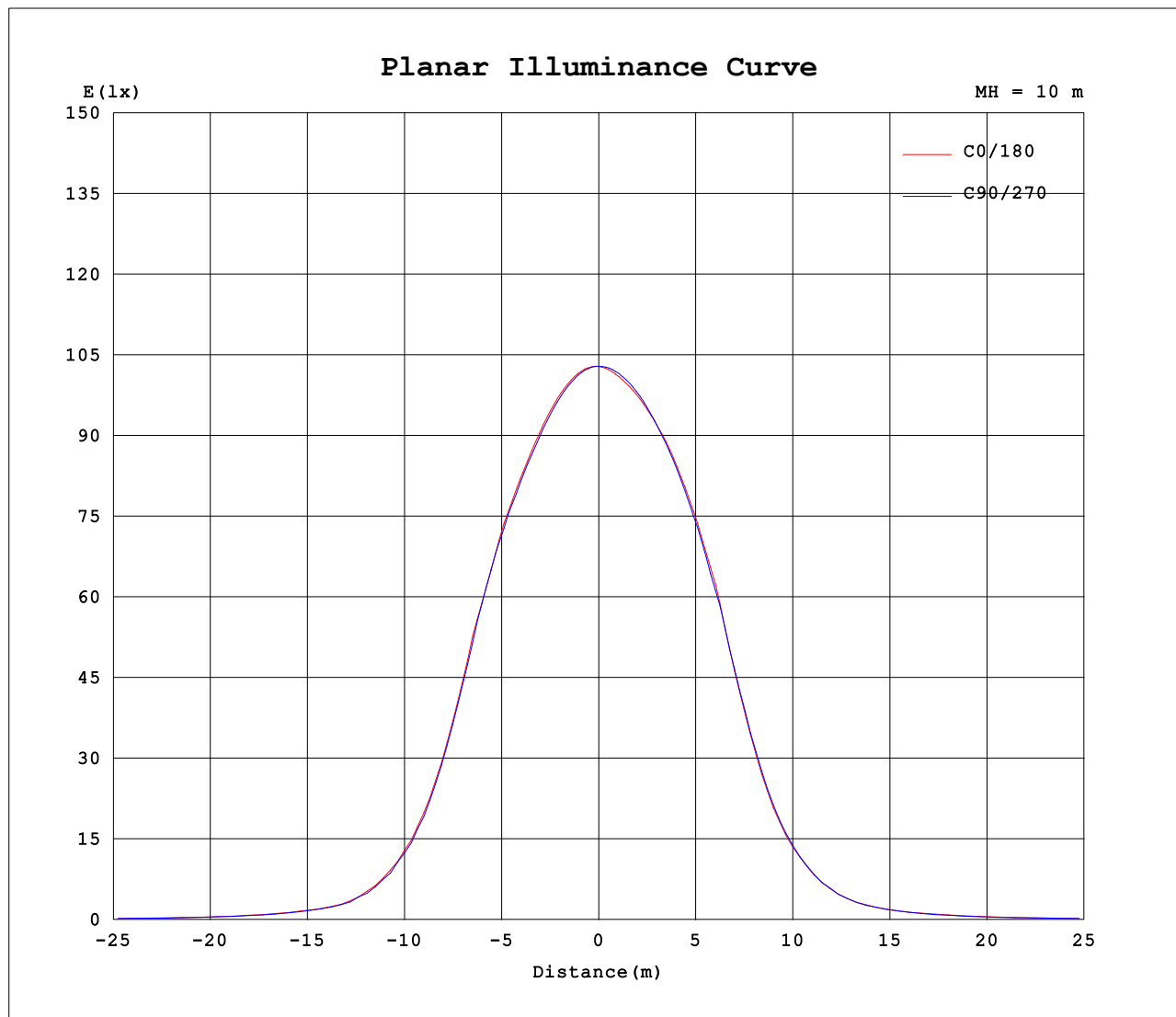


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Marvin Ma
 Test Date: 2022-09-01

☐ 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: 2022-09-01

☐ 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:120.5V I:1.022A P:122.9W PF:0.9980 Freq:59.98Hz Lamp Flux:18998.7x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1029	1029	1029	1030	1029	1029	1029	1030										
5	1032	1031	1030	1028	1026	1027	1031	1034										
10	1035	1030	1029	1030	1031	1031	1037	1039										
15	1035	1027	1028	1034	1042	1044	1044	1040										
20	1030	1024	1022	1036	1055	1056	1050	1040										
25	1019	1012	1012	1027	1051	1053	1040	1030										
30	957	943	956	978	1007	1015	989	980										
35	810	782	798	841	841	875	849	819										
40	578	553	566	609	604	641	617	573										
45	366	344	352	385	383	407	391	355										
50	201	187	187	222	218	230	221	200										
55	113	104	110	123	125	128	123	118										
60	77.6	68.0	73.2	82.1	84.2	85.3	78.6	77.8										
65	52.8	47.2	51.6	58.0	55.9	59.0	52.8	52.8										
70	40.8	37.5	43.1	46.2	47.8	45.9	42.0	41.1										
75	26.9	21.5	22.0	22.6	20.8	22.9	23.3	22.8										
80	11.9	10.8	11.4	11.8	11.8	12.8	12.0	11.3										
85	7.79	7.44	7.87	8.01	7.71	8.51	8.21	7.52										
90	5.01	5.05	5.33	5.00	4.87	5.14	5.09	4.45										
95	3.86	3.95	3.99	3.86	3.71	3.83	3.72	3.43										
100	3.60	3.77	3.88	3.69	3.60	3.45	3.35	3.36										
105	3.95	4.20	4.29	4.09	4.04	3.74	3.62	3.61										
110	4.43	4.73	4.60	4.50	4.60	4.35	4.08	4.16										
115	5.16	5.37	5.43	5.15	5.15	5.27	4.88	4.88										
120	5.75	5.63	5.46	5.19	5.01	5.52	5.69	5.91										
125	5.69	5.65	5.49	5.49	5.56	5.60	5.80	6.42										
130	6.48	6.40	6.39	6.37	6.59	6.49	6.51	6.67										
135	7.06	6.93	7.05	6.99	7.29	7.07	7.12	6.92										
140	7.51	7.32	7.41	7.29	7.61	7.39	7.53	7.16										
145	7.80	7.78	7.77	7.66	7.80	7.64	7.83	7.53										
150	7.79	8.04	7.92	7.91	7.87	7.95	7.88	7.86										
155	8.12	8.19	8.34	8.11	8.25	8.19	8.21	8.15										
160	8.63	8.64	8.87	8.58	8.78	8.64	8.73	8.67										
165	9.15	9.07	9.36	9.09	9.31	9.08	9.25	9.15										
170	9.57	9.40	9.75	9.54	9.69	9.41	9.64	9.45										
175	9.90	9.74	10.0	9.84	9.94	9.58	9.85	9.67										
180	10.2	9.86	10.2	9.95	10.2	9.86	10.2	9.94										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

□ 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: