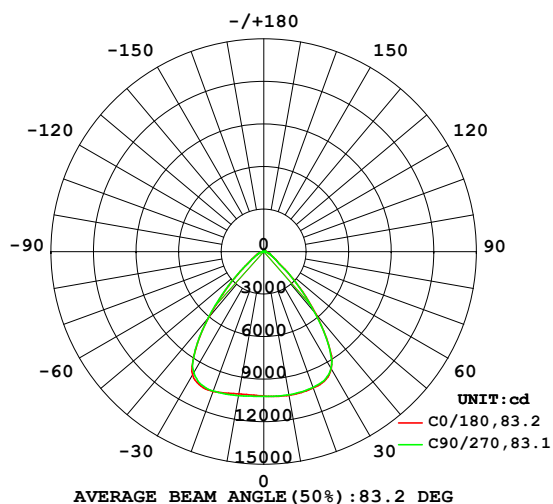


LUMINAIRE PHOTOMETRIC TEST REPORT

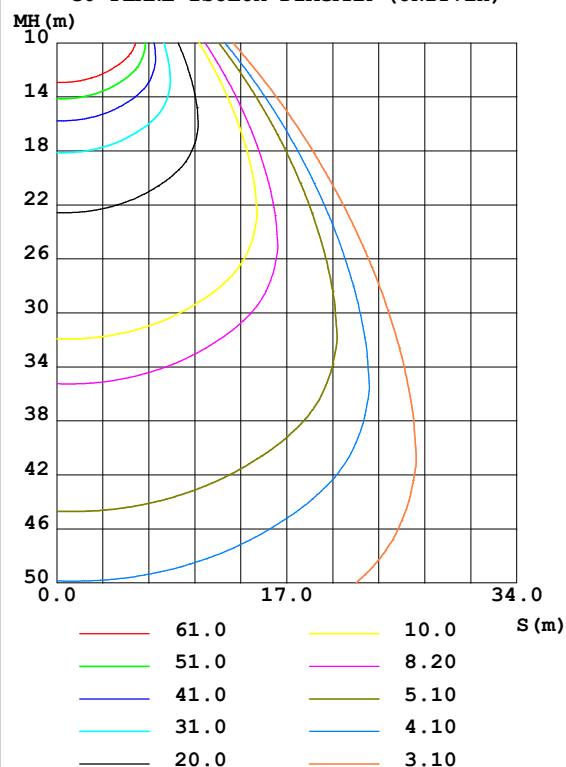
Test:U:120.5V I:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 159.94 lm/W			
MODEL		Imax(cd)	10543	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)	18855	□ UP,DN(C0-180)	1.0,48.2
NOMINAL FLUX(lm)	18854.8	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.9,49.9
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	1029	1026	1025	1024	1019	1021	1031	1035	0- 10	977.0	977.0	5.18,5.18
20	1022	1018	1019	1035	1049	1051	1045	1036	10- 20	2924	3901	20.7,20.7
30	951.9	935.0	948.6	982.8	1005	1012	987.0	967.4	20- 30	4705	8605	45.6,45.6
40	569.6	547.2	559.5	613.9	600.7	634.3	608.1	558.3	30- 40	5016	13621	72.2,72.2
50	196.1	181.3	190.4	220.6	216.9	224.9	215.6	190.4	40- 50	2884	16505	87.5,87.5
60	76.70	67.53	71.70	82.61	82.75	84.13	77.56	76.35	50- 60	1098	17603	93.4,93.4
70	39.42	36.88	42.68	46.42	46.76	45.69	41.17	40.77	60- 70	547.4	18150	96.3,96.3
80	11.78	10.53	11.31	11.75	11.50	12.73	11.66	10.95	70- 80	260.4	18411	97.6,97.6
90	4.938	4.971	5.234	4.995	4.777	5.027	4.923	4.330	80- 90	85.59	18496	98.1,98.1
100	3.523	3.694	3.803	3.622	3.519	3.391	3.286	3.300	90-100	42.49	18539	98.3,98.3
110	4.351	4.636	4.513	4.438	4.528	4.285	4.028	4.108	100-110	41.16	18580	98.5,98.5
120	5.675	5.561	5.375	5.119	4.938	5.457	5.595	5.869	110-120	49.87	18630	98.8,98.8
130	6.391	6.319	6.313	6.279	6.505	6.424	6.439	6.596	120-130	51.49	18681	99.1,99.1
140	7.406	7.230	7.325	7.200	7.506	7.304	7.436	7.100	130-140	53.58	18735	99.4,99.4
150	7.695	7.948	7.836	7.810	7.781	7.865	7.796	7.808	140-150	47.63	18782	99.6,99.6
160	8.533	8.552	8.782	8.498	8.681	8.559	8.646	8.614	150-160	37.65	18820	99.8,99.8
170	9.475	9.314	9.668	9.458	9.586	9.331	9.554	9.396	160-170	25.60	18846	100,100
180	10.13	9.775	10.13	9.880	10.12	9.776	10.13	9.876	170-180	9.218	18855	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 15368 lm

%lum = 81.5%

%lamp = 81.5%

Conical surface Flux(120deg): 17603 lm

%lum = 93.4%

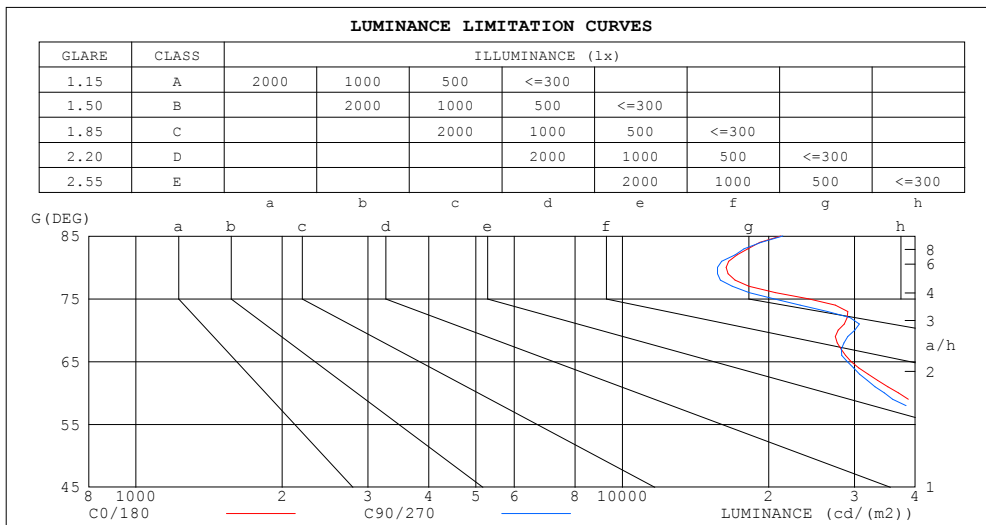
%lamp = 93.4%

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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 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	21171	21362
80	16345	15691
75	24096	20468
70	27770	30073
65	29519	28982
60	36964	34552
55	46584	45309
50	73525	71389
45	121995	118867

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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 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	.208	.115	.035	.196	.109	.034	.185	.104	.033	.175	.099	.031															
3.0	.204	.109	.033	.199	.106	.032	.188	.102	.031	.178	.098	.030	.169	.094	.029															
4.0	.194	.101	.030	.189	.099	.029	.179	.095	.028	.171	.092	.028	.163	.088	.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	.162	.083	.024	.156	.081	.024	.149	.079	.023															
7.0	.165	.081	.023	.161	.080	.023	.155	.078	.023	.149	.076	.022	.143	.074	.022															
8.0	.156	.076	.021	.153	.076	.021	.147	.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	.105	.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	.081	.136	.099	.071	.093	.069	.050	.054	.040	.029	.017	.013	.010	
5.0	.150	.104	.069	.129	.090	.060	.089	.063	.042	.052	.037	.025	.017	.012	.008	
6.0	.144	.095	.060	.123	.082	.052	.085	.058	.037	.049	.034	.022	.016	.011	.007	
7.0	.138	.088	.053	.118	.076	.046	.082	.053	.033	.047	.031	.019	.015	.010	.006	
8.0	.132	.082	.047	.114	.071	.041	.079	.050	.029	.046	.029	.017	.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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 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	2H	25.7	26.9	26.0	27.1	27.3	25.6	26.8	25.9	27.0	27.2
	3H	25.9	26.9	26.2	27.2	27.4	25.8	26.9	26.1	27.1	27.4
	4H	25.9	27.0	26.3	27.2	27.5	25.8	26.9	26.2	27.1	27.4
	6H	25.9	26.9	26.3	27.2	27.5	25.8	26.8	26.2	27.1	27.4
	8H	25.9	26.8	26.3	27.1	27.4	25.8	26.7	26.2	27.0	27.3
	12H	25.9	26.8	26.3	27.1	27.4	25.8	26.7	26.2	27.0	27.3
4H	2H	25.6	26.6	25.9	26.9	27.1	25.5	26.5	25.8	26.8	27.1
	3H	25.9	26.8	26.2	27.1	27.4	25.8	26.7	26.2	27.0	27.3
	4H	26.0	26.8	26.4	27.2	27.5	25.9	26.7	26.3	27.1	27.4
	6H	26.1	26.8	26.5	27.1	27.5	26.0	26.7	26.4	27.0	27.4
	8H	26.1	26.7	26.5	27.1	27.5	26.0	26.6	26.4	27.0	27.4
	12H	26.1	26.7	26.5	27.1	27.5	26.0	26.6	26.4	27.0	27.4
8H	4H	26.0	26.6	26.4	27.0	27.4	25.9	26.5	26.3	26.9	27.3
	6H	26.1	26.6	26.5	27.0	27.5	26.0	26.5	26.4	26.9	27.4
	8H	26.1	26.6	26.6	27.0	27.5	26.0	26.5	26.5	26.9	27.4
	12H	26.2	26.6	26.7	27.0	27.6	26.1	26.5	26.6	26.9	27.5
12H	4H	26.0	26.5	26.4	27.0	27.4	25.9	26.4	26.3	26.9	27.3
	6H	26.0	26.5	26.5	27.0	27.4	25.9	26.4	26.4	26.8	27.3
	8H	26.1	26.5	26.6	27.0	27.5	26.0	26.4	26.5	26.9	27.4
Variations with the observer position at spacings:											
S = 1.0H	+ 1.6 / - 2.7					+ 1.6 / - 2.8					
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4					
2.0H	+ 3.6 / - 2.3					+ 3.7 / - 2.3					

CIE Pub.117, 18855 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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

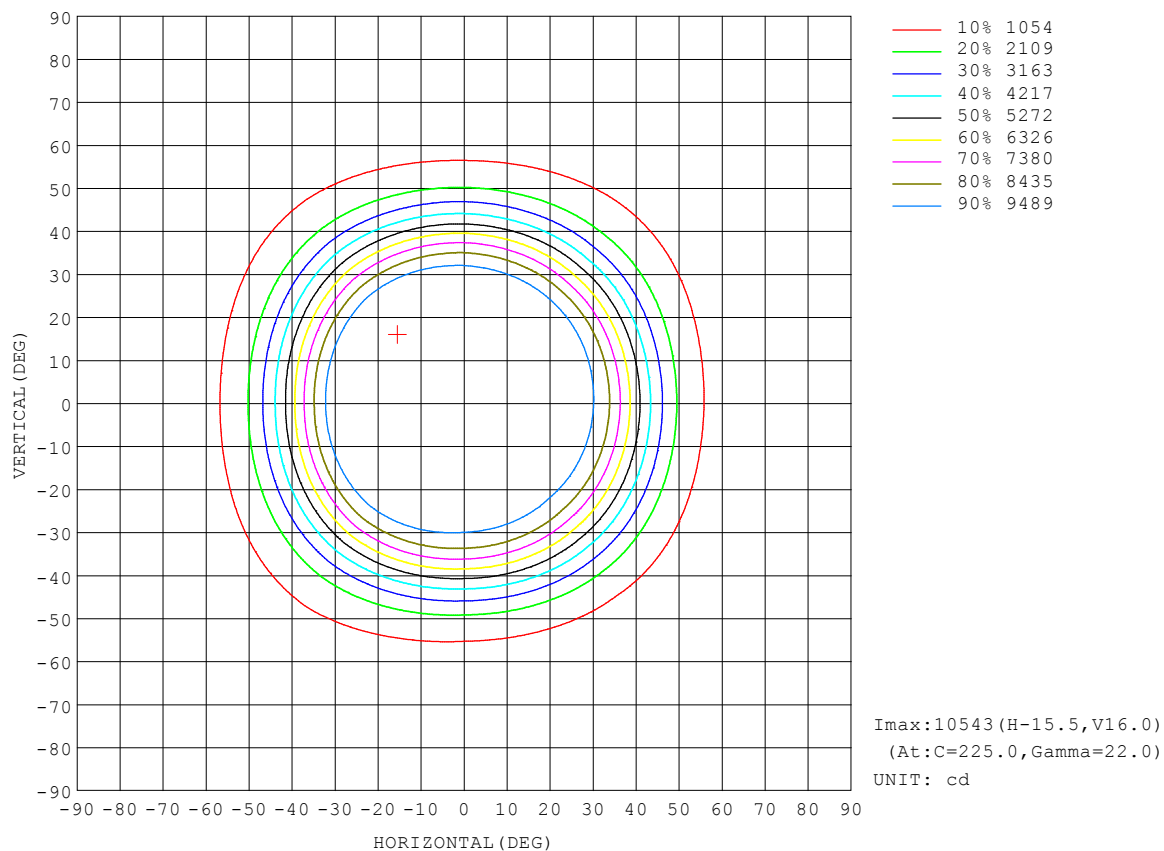
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	75	70	81	74	69	64
1.00	90	82	77	89	82	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	97	104	99	96	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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

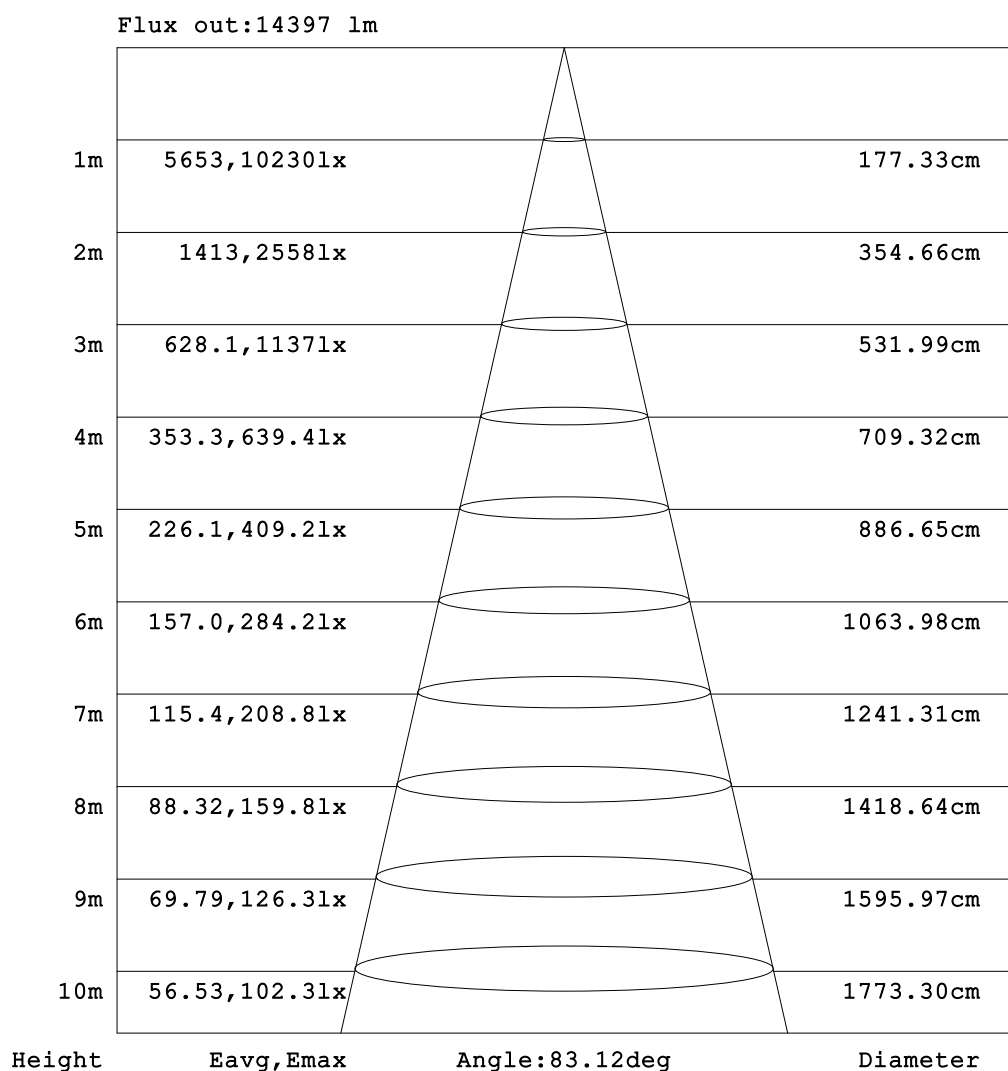


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 lm		
NAME: H17-RPC-120W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

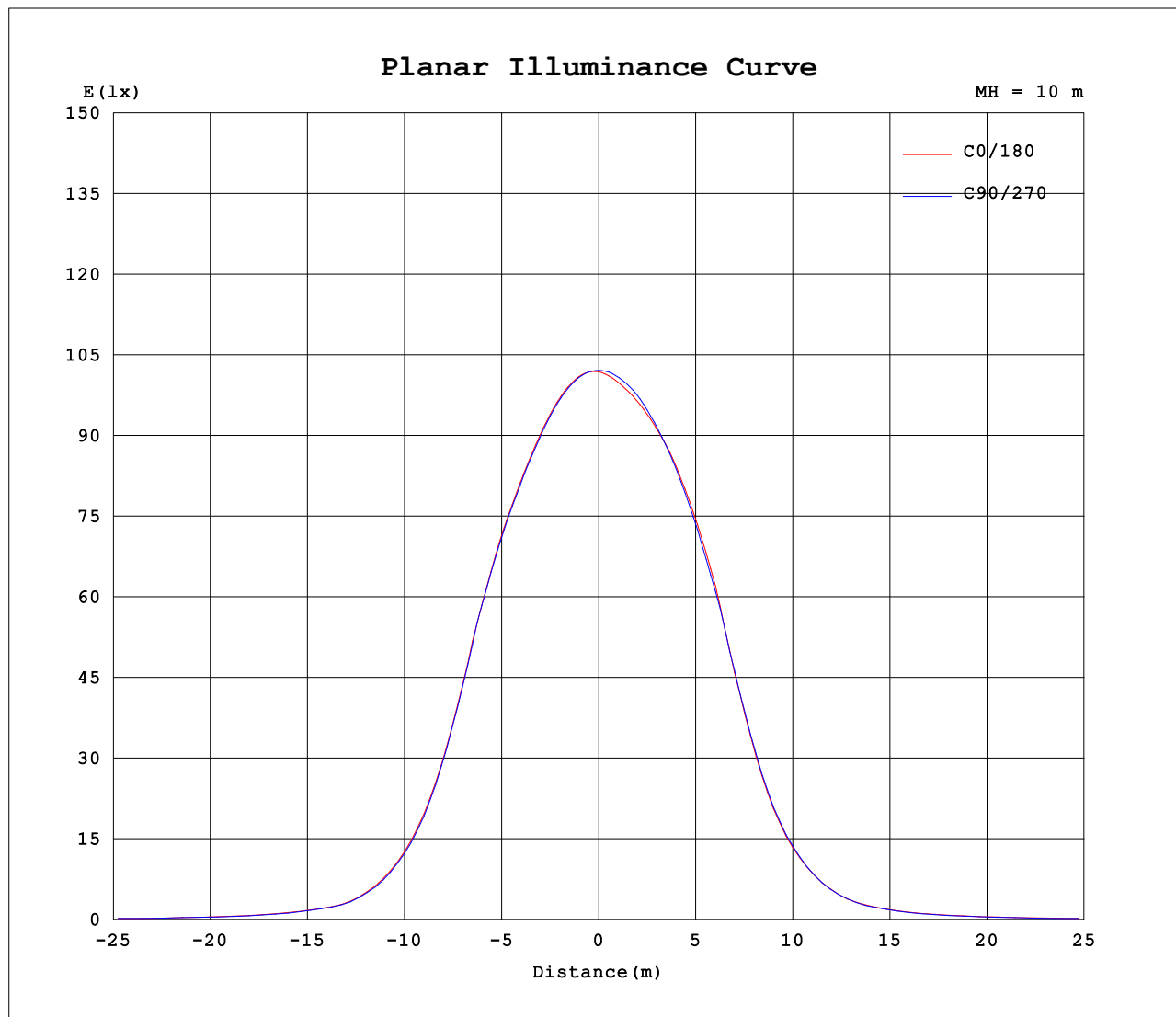


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.9802A P:117.9W PF:0.9978 Freq:59.98Hz Lamp Flux:18854.8x1 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	1019	1020	1021	1023	1019	1020	1021	1023										
5	1025	1025	1023	1020	1015	1017	1023	1029										
10	1029	1026	1025	1024	1019	1021	1031	1035										
15	1029	1022	1025	1031	1032	1036	1039	1037										
20	1022	1018	1019	1035	1049	1051	1045	1036										
25	1009	1002	1005	1026	1048	1050	1037	1026										
30	952	935	949	983	1005	1012	987	967										
35	798	772	792	847	836	870	844	802										
40	570	547	559	614	601	634	608	558										
45	358	341	349	388	380	402	388	345										
50	196	181	190	221	217	225	216	190										
55	111	103	108	123	124	127	120	114										
60	76.7	67.5	71.7	82.6	82.7	84.1	77.6	76.4										
65	51.8	46.3	50.8	57.5	54.9	58.4	51.6	51.7										
70	39.4	36.9	42.7	46.4	46.8	45.7	41.2	40.8										
75	25.9	21.3	22.0	22.7	20.2	22.6	22.4	21.6										
80	11.8	10.5	11.3	11.8	11.5	12.7	11.7	10.9										
85	7.66	7.31	7.73	7.97	7.52	8.34	7.96	7.23										
90	4.94	4.97	5.23	4.99	4.78	5.03	4.92	4.33										
95	3.78	3.89	3.92	3.80	3.62	3.75	3.63	3.35										
100	3.52	3.69	3.80	3.62	3.52	3.39	3.29	3.30										
105	3.88	4.12	4.22	4.01	3.96	3.67	3.55	3.57										
110	4.35	4.64	4.51	4.44	4.53	4.29	4.03	4.11										
115	5.07	5.27	5.34	5.06	5.07	5.20	4.81	4.85										
120	5.68	5.56	5.37	5.12	4.94	5.46	5.59	5.87										
125	5.60	5.57	5.42	5.39	5.48	5.53	5.73	6.40										
130	6.39	6.32	6.31	6.28	6.50	6.42	6.44	6.60										
135	6.97	6.85	6.96	6.91	7.20	6.98	7.04	6.87										
140	7.41	7.23	7.33	7.20	7.51	7.30	7.44	7.10										
145	7.69	7.67	7.68	7.56	7.70	7.55	7.75	7.48										
150	7.69	7.95	7.84	7.81	7.78	7.86	7.80	7.81										
155	8.03	8.10	8.25	8.02	8.16	8.11	8.13	8.10										
160	8.53	8.55	8.78	8.50	8.68	8.56	8.65	8.61										
165	9.05	8.98	9.27	9.00	9.21	9.00	9.17	9.09										
170	9.48	9.31	9.67	9.46	9.59	9.33	9.55	9.40										
175	9.81	9.65	9.95	9.77	9.84	9.50	9.77	9.60										
180	10.1	9.78	10.1	9.88	10.1	9.78	10.1	9.88										

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: