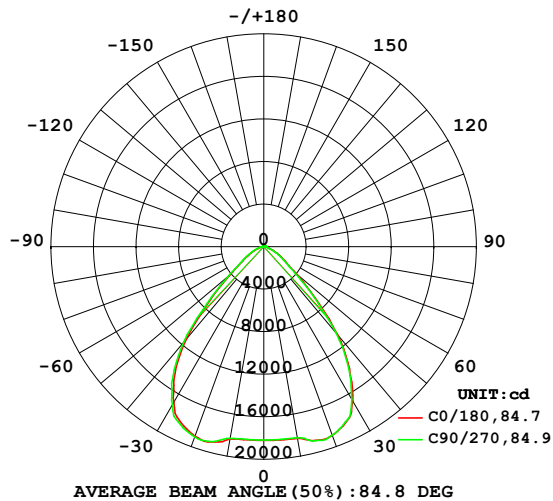


## LUMINAIRE PHOTOMETRIC TEST REPORT

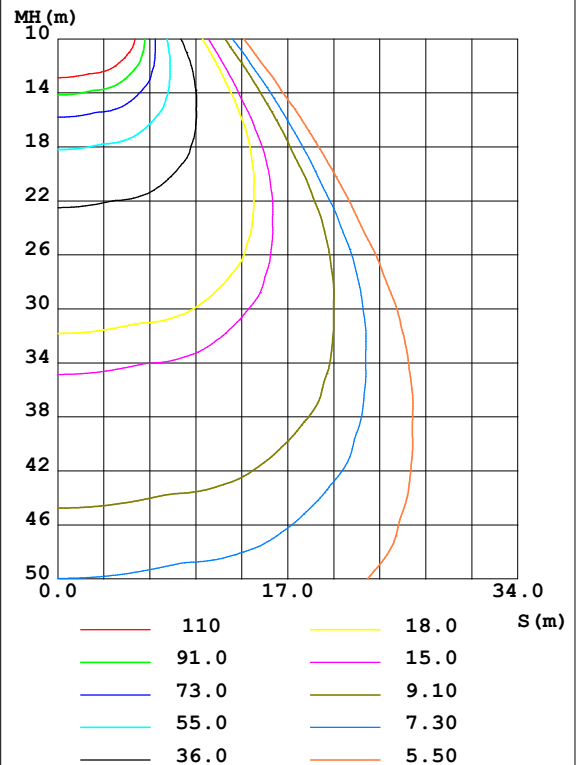
Test:U:120.5V I:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.61 lm/W			
MODEL		Imax(cd)	19152	S/MH(C0/180)	1.23
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	34901	□ UP,DN(C0-180)	1.1,48.1
NOMINAL FLUX(lm)	34901.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.1,49.7
LAMPS INSIDE	1	□ up(%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	97.9	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:2022-08-31

□ 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	1830	1828	1824	1824	1838	1831	1829	1828	0- 10	1740	1740	4.98,4.98
20	1887	1882	1886	1888	1896	1905	1902	1882	10- 20	5341	7080	20.3,20.3
30	1675	1649	1658	1687	1693	1737	1720	1661	20- 30	8391	15471	44.3,44.3
40	1085	1049	1060	1122	1130	1199	1171	1064	30- 40	8865	24336	69.7,69.7
50	401.2	371.9	383.7	420.3	423.7	469.8	441.4	398.6	40- 50	5559	29895	85.7,85.7
60	181.8	171.0	170.3	182.6	176.9	194.4	189.6	178.3	50- 60	2406	32301	92.6,92.6
70	65.64	60.23	62.46	67.78	65.49	76.29	72.23	64.37	60- 70	1201	33502	96,96
80	27.66	25.60	26.08	28.25	27.43	30.53	29.60	27.91	70- 80	453.1	33955	97.3,97.3
90	10.73	9.826	10.20	10.98	10.44	10.54	10.74	10.60	80- 90	198.6	34153	97.9,97.9
100	8.150	8.249	8.191	8.014	7.857	7.803	7.877	8.010	90-100	92.62	34246	98.1,98.1
110	9.741	10.12	10.01	9.834	9.717	9.709	9.532	9.953	100-110	91.85	34338	98.4,98.4
120	13.29	13.72	13.36	13.24	12.20	12.41	12.39	13.60	110-120	112.5	34451	98.7,98.7
130	13.30	13.97	13.10	13.27	12.34	12.46	12.47	12.99	120-130	119.8	34570	99.1,99.1
140	14.30	14.49	14.12	14.09	14.17	13.94	14.07	14.25	130-140	104.0	34674	99.4,99.4
150	15.00	14.97	14.96	14.64	15.02	14.71	14.89	15.01	140-150	91.72	34766	99.6,99.6
160	16.28	16.33	16.35	15.91	16.29	16.04	16.09	16.23	150-160	71.20	34837	99.8,99.8
170	17.35	16.99	17.45	16.88	17.51	17.15	17.36	16.58	160-170	47.58	34885	100,100
180	17.66	16.81	17.46	16.80	17.68	16.79	17.48	16.76	170-180	16.34	34901	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 27676 lm

%lum = 79.3%

%lamp = 79.3%

Conical surface Flux(120deg): 32301 lm

%lum = 92.6%

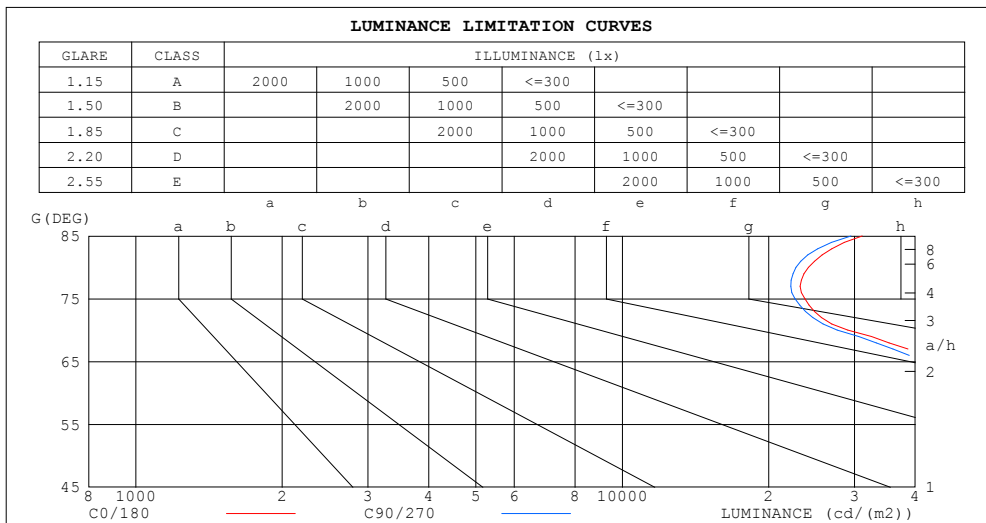
%lamp = 92.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

□ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	31145	29510
80	24138	22755
75	23741	22660
70	29078	27671
65	43676	41270
60	55102	51596
55	66932	63058
50	94575	90455
45	147167	142235

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	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	.227 .129 .041	.220 .125 .040	.206 .118 .038	.193 .111 .036	.181 .105 .034	
2.0	.219 .120 .037	.212 .117 .036	.200 .111 .035	.189 .106 .033	.178 .101 .032	
3.0	.208 .111 .033	.202 .108 .033	.192 .104 .032	.182 .100 .031	.173 .096 .030	
4.0	.197 .102 .030	.192 .100 .030	.182 .097 .029	.174 .093 .028	.166 .090 .027	
5.0	.186 .095 .027	.182 .093 .027	.173 .090 .027	.166 .087 .026	.158 .085 .025	
6.0	.176 .088 .025	.172 .087 .025	.165 .084 .025	.158 .082 .024	.151 .080 .024	
7.0	.167 .083 .023	.163 .081 .023	.157 .079 .023	.150 .077 .022	.144 .075 .022	
8.0	.158 .077 .022	.155 .076 .022	.149 .075 .021	.143 .073 .021	.138 .071 .021	
9.0	.150 .073 .020	.148 .072 .020	.142 .070 .020	.137 .069 .020	.132 .067 .019	
10.0	.143 .069 .019	.141 .068 .019	.136 .066 .019	.131 .065 .018	.126 .064 .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	.207 .207 .207	.177 .177 .177	.121 .121 .121	.069 .069 .069	.022 .022 .022	
1.0	.191 .173 .157	.163 .149 .135	.112 .102 .094	.064 .059 .054	.021 .019 .018	
2.0	.179 .149 .123	.153 .128 .107	.105 .089 .074	.061 .052 .044	.019 .017 .014	
3.0	.169 .131 .100	.145 .113 .086	.100 .078 .061	.058 .046 .036	.018 .015 .012	
4.0	.161 .117 .083	.138 .101 .072	.095 .070 .051	.055 .041 .030	.018 .013 .010	
5.0	.153 .106 .071	.132 .091 .061	.091 .064 .043	.052 .037 .026	.017 .012 .008	
6.0	.146 .097 .061	.126 .084 .053	.087 .059 .038	.050 .035 .022	.016 .011 .007	
7.0	.140 .090 .054	.121 .078 .047	.083 .055 .034	.048 .032 .020	.016 .011 .007	
8.0	.135 .084 .049	.116 .073 .043	.080 .051 .030	.047 .030 .018	.015 .010 .006	
9.0	.129 .079 .045	.111 .069 .039	.077 .048 .028	.045 .028 .017	.015 .009 .005	
10.0	.125 .075 .042	.107 .065 .036	.074 .046 .026	.043 .027 .015	.014 .009 .005	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm										
NAME: H17XL-RPC-240W-4K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB LIGHTING INC					SUR.:0.29*0.29m			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	26.7	27.9	27.0	28.1	28.3	26.5	27.7	26.8	28.0	28.2
3H	26.8	27.9	27.1	28.2	28.4	26.7	27.8	27.0	28.0	28.3
4H	26.8	27.9	27.2	28.1	28.4	26.7	27.7	27.0	28.0	28.3
6H	26.8	27.8	27.2	28.1	28.4	26.7	27.6	27.0	27.9	28.2
8H	26.9	27.8	27.2	28.1	28.4	26.7	27.6	27.0	27.9	28.2
12H	26.9	27.8	27.2	28.1	28.4	26.7	27.6	27.1	27.9	28.2
4H 2H	26.7	27.7	27.0	28.0	28.2	26.5	27.6	26.8	27.8	28.1
3H	26.9	27.8	27.2	28.1	28.4	26.7	27.6	27.1	27.9	28.3
4H	26.9	27.7	27.3	28.1	28.4	26.8	27.6	27.2	27.9	28.3
6H	27.0	27.7	27.4	28.1	28.5	26.8	27.5	27.3	27.9	28.3
8H	27.0	27.7	27.5	28.1	28.5	26.9	27.5	27.3	27.9	28.3
12H	27.1	27.7	27.5	28.1	28.5	26.9	27.5	27.4	27.9	28.4
8H 4H	26.9	27.5	27.3	27.9	28.3	26.7	27.4	27.2	27.8	28.2
6H	27.0	27.5	27.5	28.0	28.4	26.8	27.4	27.3	27.8	28.3
8H	27.1	27.6	27.6	28.0	28.5	26.9	27.4	27.4	27.9	28.3
12H	27.2	27.6	27.7	28.1	28.6	27.0	27.4	27.5	27.9	28.4
12H 4H	26.8	27.4	27.3	27.8	28.3	26.7	27.3	27.1	27.7	28.1
6H	27.0	27.5	27.5	27.9	28.4	26.8	27.3	27.3	27.8	28.3
8H	27.1	27.5	27.6	28.0	28.5	26.9	27.3	27.4	27.8	28.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.2					+ 1.4 / - 2.3				
1.5H	+ 2.1 / - 2.0					+ 2.1 / - 2.0				
2.0H	+ 3.0 / - 1.7					+ 3.0 / - 1.6				

CIE Pub.117, 34901 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 12.3$ )

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

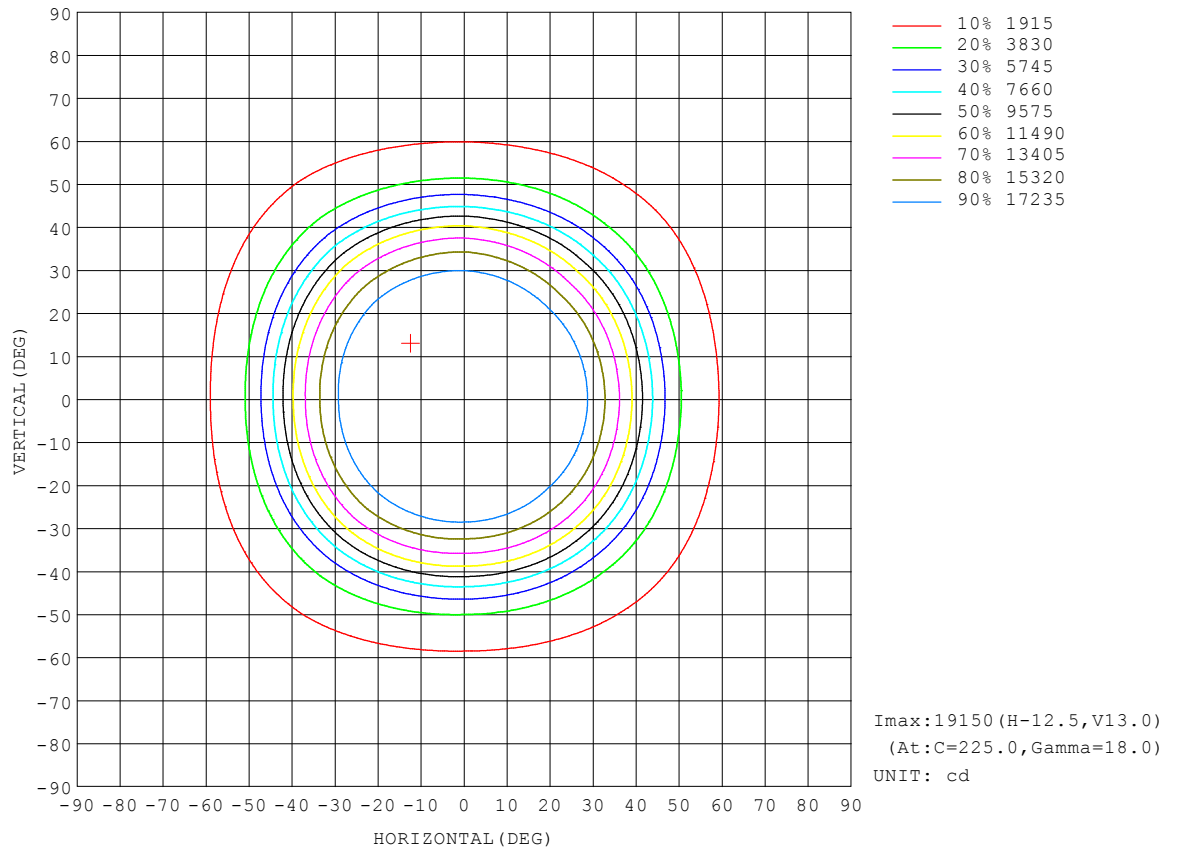
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	64	58	72	63	58	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	75	88	80	75	85	80	74	69
1.25	94	87	82	93	86	81	90	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	96	103	98	95	100	96	92	85
3.00	108	103	99	105	101	98	101	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	106	109	106	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: 2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

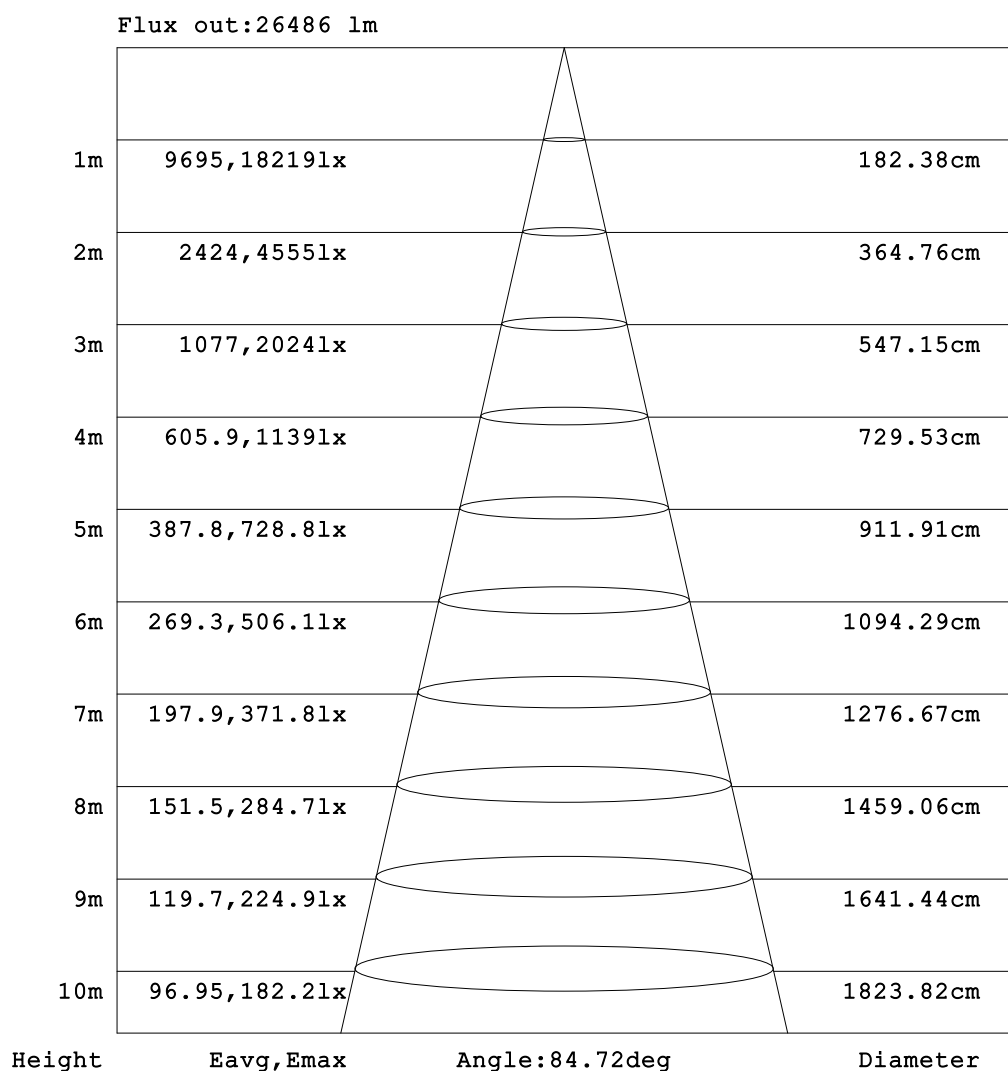


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Marvin Ma  
Test Date:2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm		
NAME: H17XL-RPC-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:



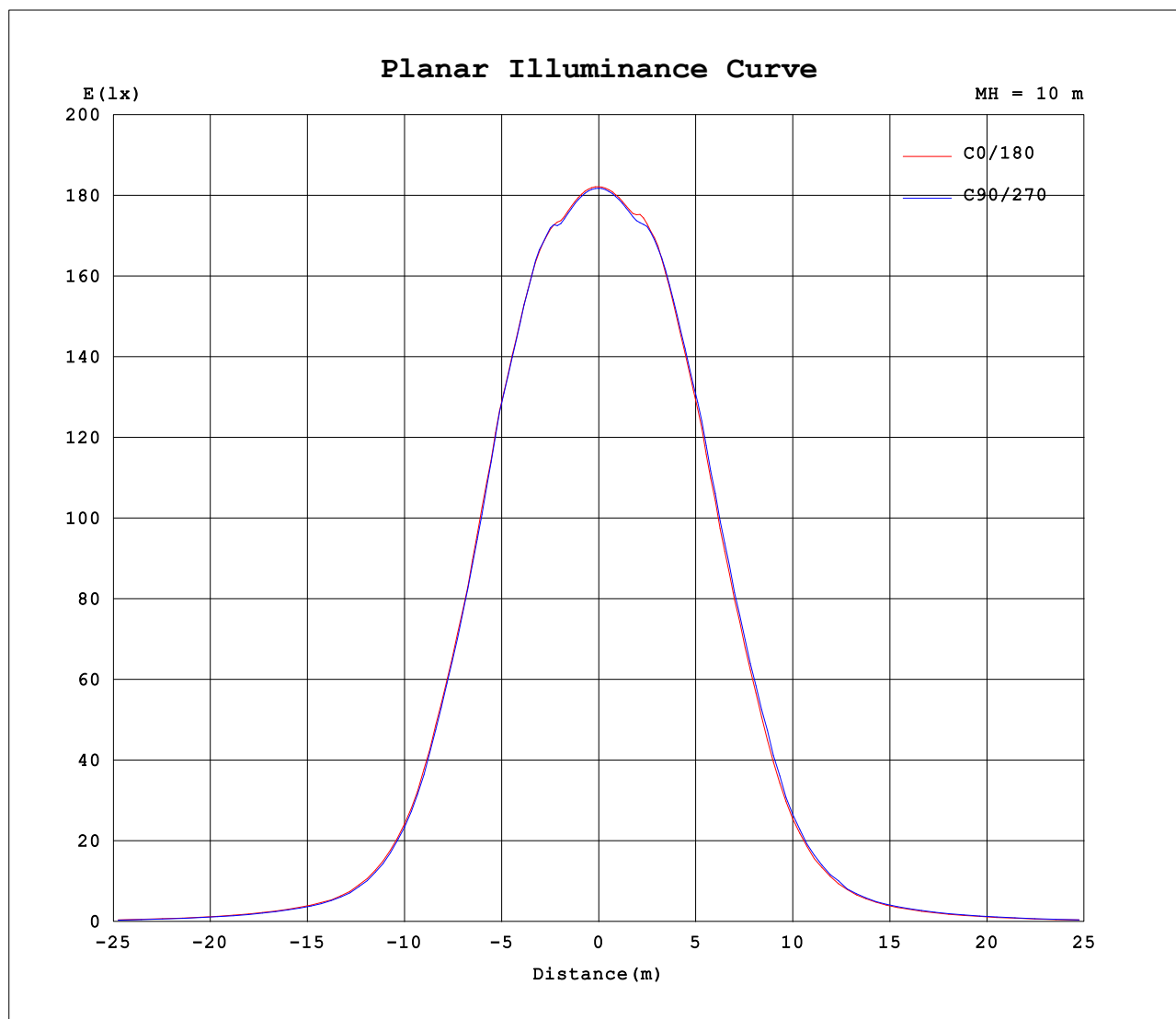
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

☐ 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: 2022-08-31

☐ 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:1.980A P:238.0W PF:0.9976 Freq:59.98Hz Lamp Flux:34901.1x1 lm								
NAME: H17XL-RPC-240W-4K					TYPE:			WEIGHT:
SPEC.:					DIM.:			SERIAL No.:
MFR.: RAB LIGHTING INC					SUR.:0.29*0.29m			Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1822	1820	1818	1817	1822	1820	1818	1817										
5	1824	1821	1819	1817	1823	1820	1819	1818										
10	1830	1828	1824	1824	1838	1831	1829	1828										
15	1886	1887	1888	1890	1900	1893	1896	1886										
20	1887	1882	1886	1888	1896	1905	1902	1882										
25	1823	1818	1818	1828	1832	1855	1848	1819										
30	1675	1649	1658	1687	1693	1737	1720	1661										
35	1405	1395	1393	1449	1452	1500	1485	1396										
40	1085	1049	1060	1122	1130	1199	1171	1064										
45	687	651	664	715	720	786	752	676										
50	401	372	384	420	424	470	441	399										
55	253	240	239	255	256	283	266	249										
60	182	171	170	183	177	194	190	178										
65	122	113	115	123	118	132	128	119										
70	65.6	60.2	62.5	67.8	65.5	76.3	72.2	64.4										
75	40.6	38.8	38.7	41.0	40.2	45.6	44.0	40.5										
80	27.7	25.6	26.1	28.2	27.4	30.5	29.6	27.9										
85	17.9	16.5	17.0	18.4	17.7	19.1	18.5	17.4										
90	10.7	9.83	10.2	11.0	10.4	10.5	10.7	10.6										
95	8.31	8.20	8.17	8.20	7.98	7.93	7.99	8.17										
100	8.15	8.25	8.19	8.01	7.86	7.80	7.88	8.01										
105	8.65	8.78	8.85	8.50	8.40	8.40	8.44	8.63										
110	9.74	10.1	10.0	9.83	9.72	9.71	9.53	9.95										
115	11.4	11.6	11.3	10.9	11.0	10.7	10.6	11.2										
120	13.3	13.7	13.4	13.2	12.2	12.4	12.4	13.6										
125	13.8	14.8	13.4	14.1	12.3	13.0	12.5	14.3										
130	13.3	14.0	13.1	13.3	12.3	12.5	12.5	13.0										
135	13.5	13.7	13.4	13.4	13.3	13.1	13.1	13.5										
140	14.3	14.5	14.1	14.1	14.2	13.9	14.1	14.3										
145	14.8	14.8	14.7	14.4	14.8	14.4	14.7	14.7										
150	15.0	15.0	15.0	14.6	15.0	14.7	14.9	15.0										
155	15.4	15.5	15.5	15.1	15.5	15.2	15.2	15.5										
160	16.3	16.3	16.4	15.9	16.3	16.0	16.1	16.2										
165	17.0	16.9	17.1	16.7	17.1	16.9	17.0	16.7										
170	17.3	17.0	17.4	16.9	17.5	17.2	17.4	16.6										
175	17.4	16.8	17.3	16.8	17.5	16.9	17.3	16.6										
180	17.7	16.8	17.5	16.8	17.7	16.8	17.5	16.8										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Marvin Ma  
 Test Date:2022-08-31

□ 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: