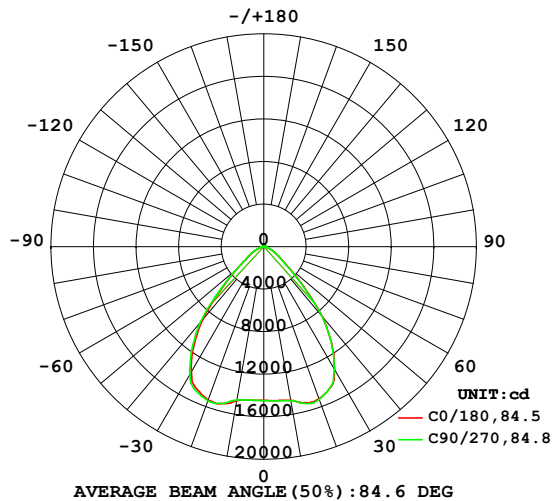


LUMINAIRE PHOTOMETRIC TEST REPORT

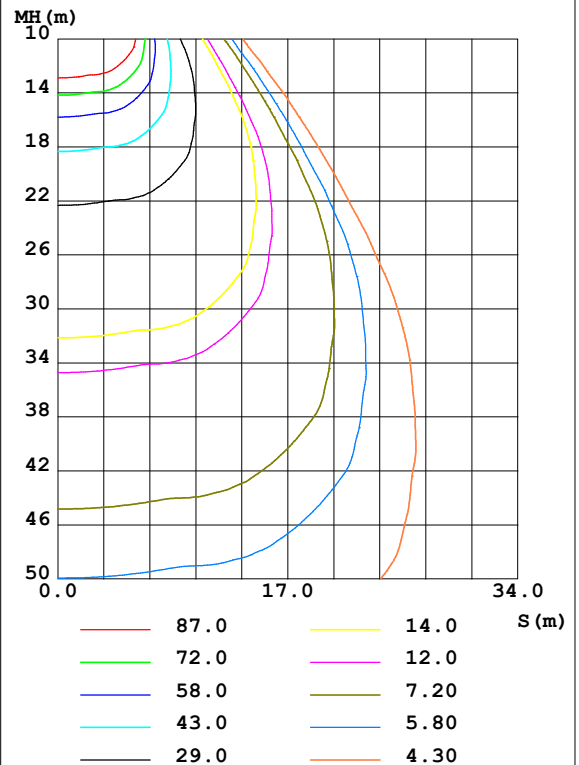
Test:U:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.47 lm/W			
MODEL		Imax(cd)	15452	S/MH(C0/180)	1.23
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	27790	□ UP,DN(C0-180)	1.1,48.0
NOMINAL FLUX(lm)	27790.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.0,49.9
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	1467	1470	1470	1469	1469	1463	1465	1470	0- 10	1391	1391	5,5
20	1521	1520	1527	1532	1533	1539	1540	1525	10- 20	4307	5697	20.5,20.5
30	1333	1320	1333	1361	1364	1405	1387	1336	20- 30	6774	12471	44.9,44.9
40	852.8	818.6	849.2	897.0	891.4	953.7	933.8	858.3	30- 40	7050	19521	70.2,70.2
50	315.9	293.0	301.2	329.5	336.3	366.0	355.9	314.3	40- 50	4375	23896	86,86
60	138.8	130.2	132.5	141.1	138.1	154.7	148.6	141.0	50- 60	1869	25765	92.7,92.7
70	49.41	45.52	47.91	52.28	50.45	59.18	56.46	49.59	60- 70	936.1	26701	96.1,96.1
80	20.98	19.49	20.16	21.83	21.36	24.11	23.15	21.72	70- 80	350.0	27051	97.3,97.3
90	8.216	7.499	7.924	8.492	8.088	8.338	8.343	8.280	80- 90	153.8	27205	97.9,97.9
100	6.307	6.376	6.355	6.199	6.081	6.061	6.101	6.199	90-100	71.61	27276	98.2,98.2
110	7.583	7.827	7.780	7.595	7.629	7.657	7.498	7.779	100-110	71.41	27348	98.4,98.4
120	10.38	10.80	10.45	10.49	9.534	9.741	9.764	10.67	110-120	87.97	27436	98.7,98.7
130	10.57	10.99	10.27	10.43	9.682	9.811	9.820	10.25	120-130	93.90	27530	99.1,99.1
140	11.21	11.40	11.11	11.09	11.14	10.98	11.08	11.21	130-140	81.72	27611	99.4,99.4
150	11.80	11.80	11.81	11.57	11.82	11.60	11.75	11.85	140-150	72.21	27683	99.6,99.6
160	12.82	12.88	12.93	12.58	12.84	12.68	12.73	12.81	150-160	56.18	27740	99.8,99.8
170	13.70	13.46	13.84	13.40	13.84	13.59	13.76	13.16	160-170	37.62	27777	100,100
180	13.99	13.34	13.88	13.36	13.99	13.35	13.88	13.35	170-180	12.96	27790	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 22161 lm

%lum = 79.7%

%lamp = 79.7%

Conical surface Flux(120deg): 25765 lm

%lum = 92.7%

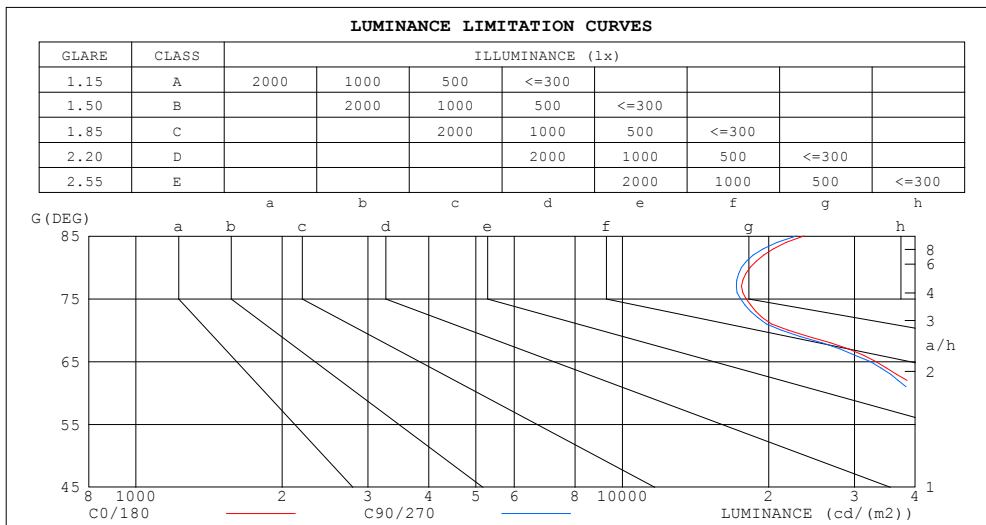
%lamp = 92.7%

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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	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	23619	22792
80	18309	17589
75	17968	17504
70	21887	21223
65	33160	32319
60	42066	40161
55	50453	49179
50	74474	70988
45	114460	110828

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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	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	.226 .129 .041	.219 .125 .040	.205 .117 .037	.192 .111 .035	.180 .104 .034	
2.0	.218 .119 .037	.211 .116 .036	.199 .111 .034	.188 .105 .033	.178 .100 .032	
3.0	.207 .110 .033	.201 .108 .032	.191 .103 .031	.181 .099 .030	.172 .095 .029	
4.0	.196 .102 .030	.191 .100 .030	.182 .096 .029	.173 .093 .028	.165 .090 .027	
5.0	.185 .094 .027	.181 .093 .027	.173 .090 .026	.165 .087 .026	.158 .084 .025	
6.0	.175 .088 .025	.172 .087 .025	.164 .084 .024	.157 .082 .024	.151 .079 .024	
7.0	.166 .082 .023	.163 .081 .023	.156 .079 .023	.150 .077 .022	.144 .075 .022	
8.0	.158 .077 .022	.155 .076 .022	.149 .074 .021	.143 .072 .021	.138 .071 .021	
9.0	.150 .073 .020	.147 .072 .020	.142 .070 .020	.137 .068 .020	.132 .067 .019	
10.0	.143 .068 .019	.140 .068 .019	.135 .066 .019	.131 .065 .018	.126 .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	.207 .207 .207	.177 .177 .177	.120 .120 .120	.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 .088 .074	.060 .051 .044	.019 .017 .014	
3.0	.169 .130 .100	.145 .112 .086	.099 .078 .061	.057 .046 .036	.018 .015 .012	
4.0	.160 .116 .083	.137 .100 .072	.095 .070 .051	.055 .041 .030	.018 .013 .010	
5.0	.153 .105 .070	.131 .091 .061	.090 .064 .043	.052 .037 .026	.017 .012 .008	
6.0	.146 .097 .061	.125 .084 .053	.087 .059 .038	.050 .034 .022	.016 .011 .007	
7.0	.140 .089 .054	.120 .078 .047	.083 .054 .033	.048 .032 .020	.016 .010 .007	
8.0	.134 .084 .049	.115 .073 .043	.080 .051 .030	.046 .030 .018	.015 .010 .006	
9.0	.129 .079 .045	.111 .068 .039	.077 .048 .028	.045 .028 .017	.015 .009 .005	
10.0	.124 .074 .041	.107 .065 .036	.074 .045 .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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm										
NAME: H17XL-RPC-200W-3K					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	25.7	26.9	26.0	27.1	27.4	25.7	26.9	25.9	27.1	27.3
3H	25.9	26.9	26.2	27.2	27.5	25.8	26.9	26.1	27.1	27.4
4H	25.9	26.9	26.2	27.2	27.4	25.8	26.8	26.1	27.1	27.4
6H	25.9	26.8	26.2	27.1	27.4	25.8	26.7	26.1	27.0	27.3
8H	25.9	26.8	26.2	27.1	27.4	25.8	26.7	26.1	27.0	27.3
12H	25.9	26.8	26.2	27.1	27.4	25.8	26.7	26.1	27.0	27.3
4H 2H	25.7	26.7	26.0	27.0	27.3	25.6	26.6	25.9	26.9	27.2
3H	25.9	26.8	26.3	27.1	27.4	25.8	26.7	26.2	27.0	27.3
4H	25.9	26.7	26.3	27.1	27.4	25.9	26.7	26.3	27.0	27.4
6H	26.0	26.7	26.4	27.1	27.5	25.9	26.6	26.3	27.0	27.4
8H	26.0	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	25.9	26.5	26.3	26.9	27.3	25.8	26.5	26.2	26.8	27.3
6H	26.0	26.5	26.5	27.0	27.4	25.9	26.4	26.4	26.9	27.3
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	27.1	27.6	26.1	26.5	26.6	27.0	27.5
12H 4H	25.8	26.4	26.3	26.8	27.3	25.8	26.4	26.2	26.8	27.2
6H	26.0	26.4	26.5	26.9	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	+ 1.5 / - 2.3					+ 1.5 / - 2.4				
1.5H	+ 2.2 / - 2.1					+ 2.2 / - 2.1				
2.0H	+ 3.1 / - 1.7					+ 3.1 / - 1.6				

CIE Pub.117, 27790 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.6$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

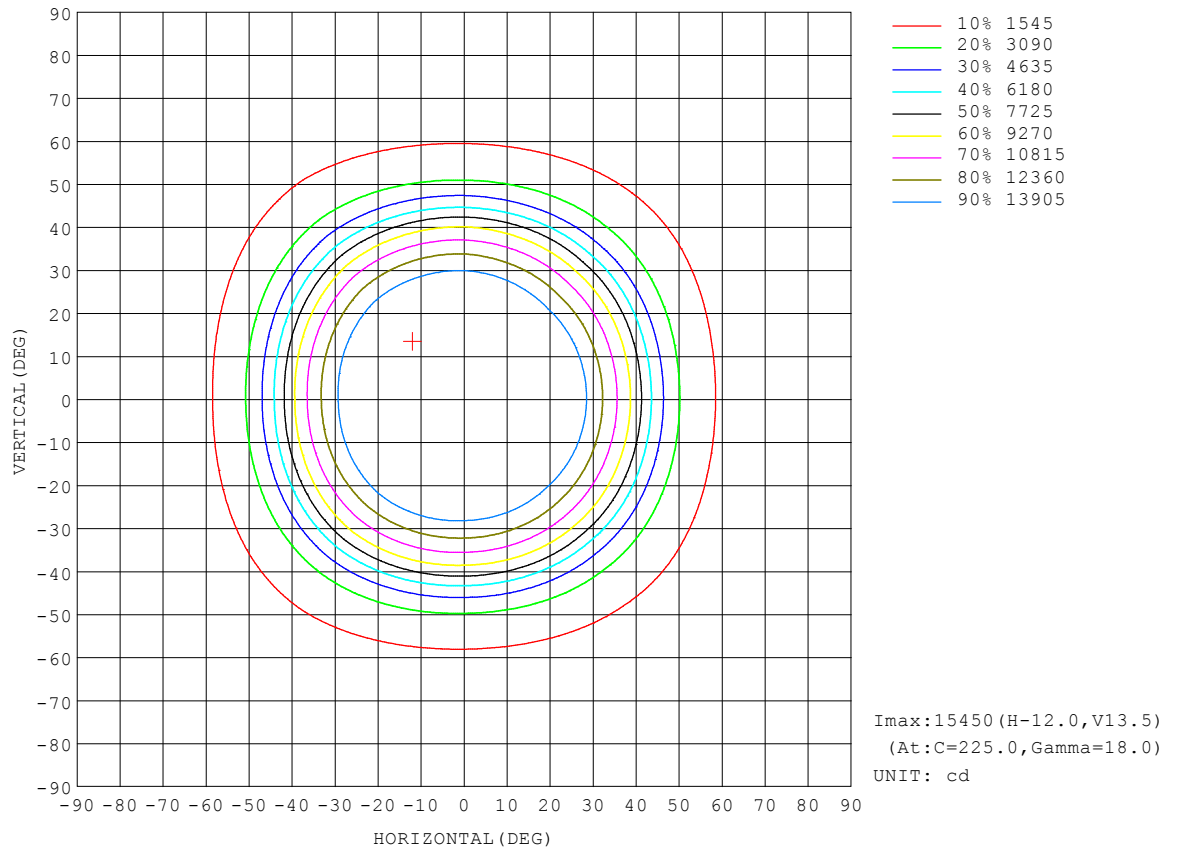
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	74	68	81	73	68	79	72	68	62
1.00	89	81	76	88	80	75	86	81	75	69
1.25	94	87	82	93	86	82	91	85	81	75
1.50	98	91	87	97	91	86	94	89	85	79
2.00	103	97	93	101	96	92	98	93	90	83
2.50	105	100	96	103	99	95	100	96	93	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	104	102	104	101	99	90
5.00	112	109	106	109	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: 2022-08-31

☐ 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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

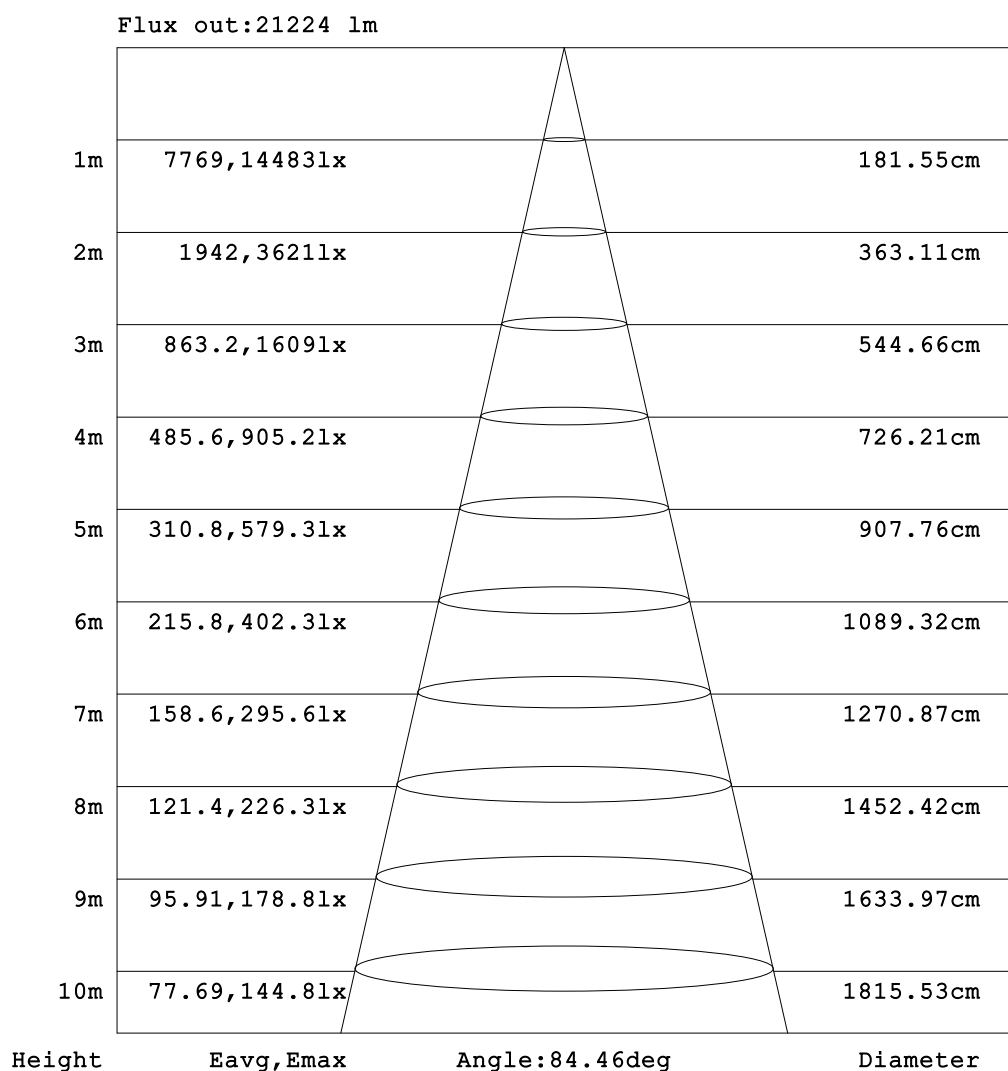


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-31

☐ 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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

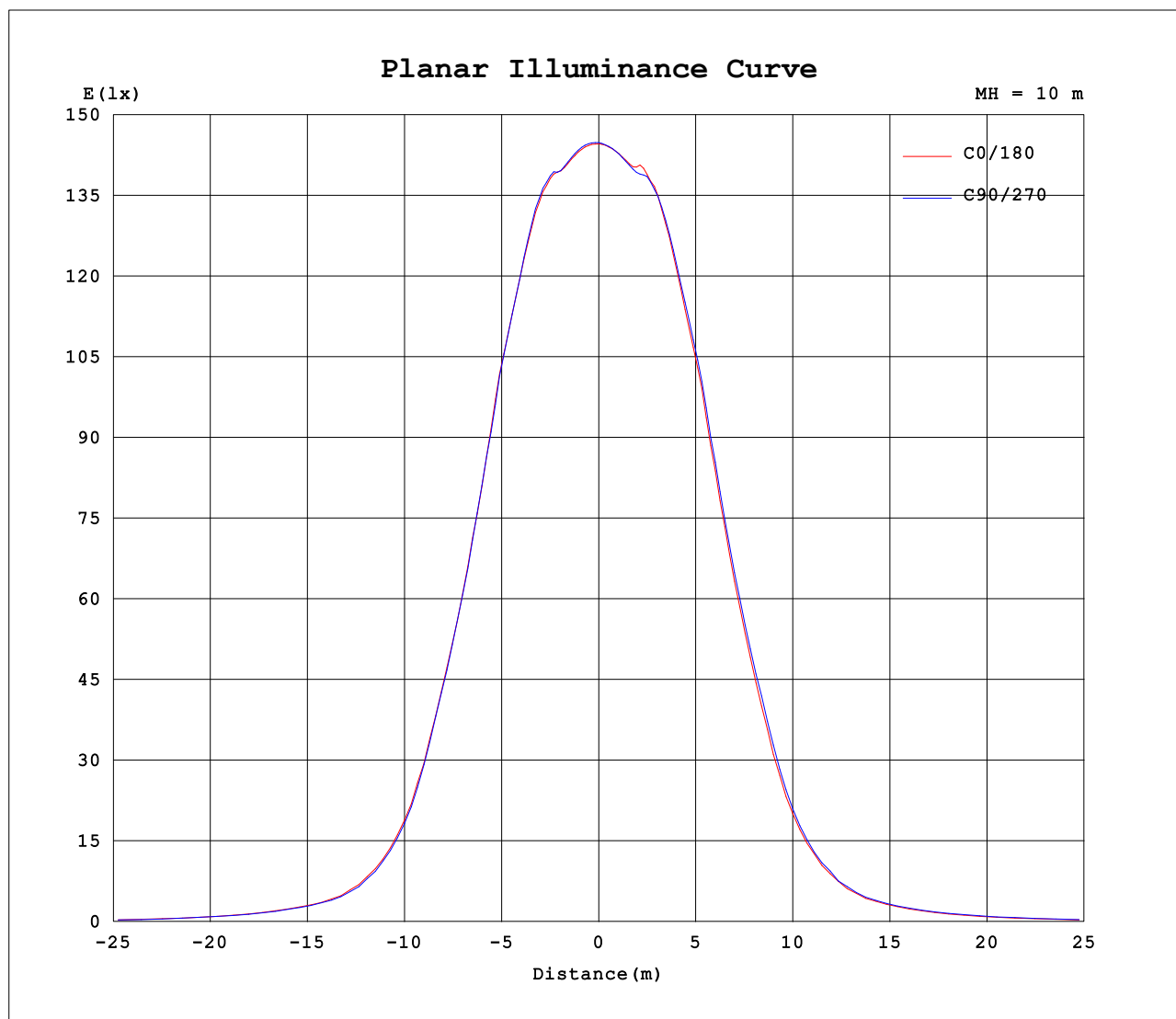


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.6V I:1.667A P:200.7W PF:0.9980 Freq:59.98Hz Lamp Flux:27790.2x1 lm		
NAME: H17XL-RPC-200W-3K	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	1446	1447	1448	1448	1446	1447	1448	1448										
5	1452	1456	1456	1453	1449	1447	1449	1453										
10	1467	1470	1470	1469	1469	1463	1465	1470										
15	1519	1519	1526	1527	1527	1524	1526	1523										
20	1521	1520	1527	1532	1533	1539	1540	1525										
25	1469	1461	1467	1479	1482	1503	1501	1469										
30	1333	1320	1333	1361	1364	1405	1387	1336										
35	1112	1096	1108	1145	1152	1206	1180	1110										
40	853	819	849	897	891	954	934	858										
45	534	500	517	556	569	625	593	529										
50	316	293	301	329	336	366	356	314										
55	191	185	186	199	201	220	212	196										
60	139	130	133	141	138	155	149	141										
65	92.5	86.4	90.1	96.0	93.0	105	102	94.2										
70	49.4	45.5	47.9	52.3	50.4	59.2	56.5	49.6										
75	30.7	29.5	29.9	31.7	31.3	36.0	34.3	31.5										
80	21.0	19.5	20.2	21.8	21.4	24.1	23.2	21.7										
85	13.6	12.7	13.1	14.2	13.8	15.0	14.4	13.5										
90	8.22	7.50	7.92	8.49	8.09	8.34	8.34	8.28										
95	6.38	6.31	6.33	6.35	6.17	6.15	6.19	6.32										
100	6.31	6.38	6.35	6.20	6.08	6.06	6.10	6.20										
105	6.72	6.81	6.86	6.58	6.55	6.56	6.60	6.68										
110	7.58	7.83	7.78	7.60	7.63	7.66	7.50	7.78										
115	8.78	8.99	8.90	8.62	8.64	8.34	8.27	8.74										
120	10.4	10.8	10.5	10.5	9.53	9.74	9.76	10.7										
125	10.8	11.6	10.6	11.0	9.76	10.2	9.94	11.1										
130	10.6	11.0	10.3	10.4	9.68	9.81	9.82	10.3										
135	10.6	10.8	10.5	10.5	10.4	10.3	10.3	10.6										
140	11.2	11.4	11.1	11.1	11.1	11.0	11.1	11.2										
145	11.6	11.6	11.6	11.4	11.6	11.3	11.6	11.6										
150	11.8	11.8	11.8	11.6	11.8	11.6	11.8	11.8										
155	12.1	12.2	12.2	11.9	12.2	12.0	12.0	12.2										
160	12.8	12.9	12.9	12.6	12.8	12.7	12.7	12.8										
165	13.5	13.4	13.6	13.2	13.5	13.3	13.4	13.3										
170	13.7	13.5	13.8	13.4	13.8	13.6	13.8	13.2										
175	13.8	13.3	13.7	13.4	13.8	13.4	13.7	13.2										
180	14.0	13.3	13.9	13.4	14.0	13.3	13.9	13.3										

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: