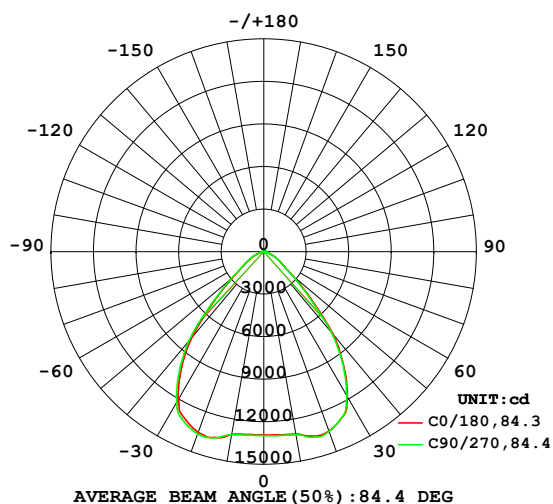


LUMINAIRE PHOTOMETRIC TEST REPORT

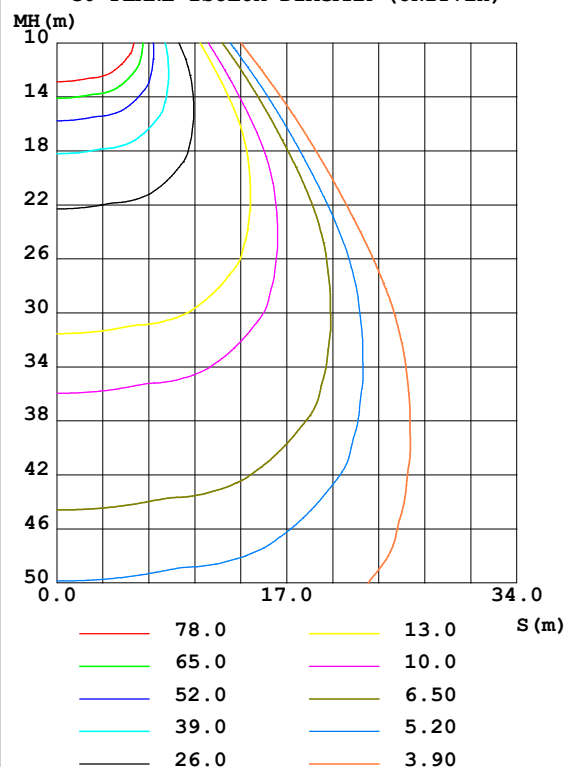
Test:U:120.6V I:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.55 lm/W			
MODEL		I _{max} (cd)	13737	S/MH(C0/180)	1.22
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	24604	□ UP,DN(C0-180)	1.1,48.0
NOMINAL FLUX(lm)	24603.7	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	1306	1308	1310	1312	1309	1308	1311	1315	0- 10	1243	1243	5.05,5.05
20	1345	1344	1349	1355	1355	1367	1367	1351	10- 20	3826	5069	20.6,20.6
30	1181	1170	1173	1201	1204	1241	1226	1180	20- 30	5988	11057	44.9,44.9
40	758.0	729.2	743.2	785.2	788.3	846.9	822.9	752.1	30- 40	6233	17290	70.3,70.3
50	277.6	256.6	262.4	290.0	293.5	323.0	311.0	275.0	40- 50	3858	21148	86,86
60	124.2	116.6	117.5	125.8	121.8	134.9	131.6	124.5	50- 60	1653	22801	92.7,92.7
70	44.79	41.33	43.15	47.23	45.25	52.17	50.82	44.82	60- 70	833.3	23634	96.1,96.1
80	18.82	17.53	17.99	19.52	18.97	21.16	20.62	19.37	70- 80	313.1	23947	97.3,97.3
90	7.333	6.731	7.038	7.601	7.206	7.307	7.470	7.354	80- 90	137.2	24084	97.9,97.9
100	5.603	5.675	5.664	5.527	5.403	5.379	5.421	5.523	90-100	63.82	24148	98.1,98.1
110	6.726	6.980	6.930	6.783	6.736	6.752	6.614	6.890	100-110	63.43	24212	98.4,98.4
120	9.190	9.567	9.302	9.263	8.450	8.624	8.646	9.446	110-120	78.01	24290	98.7,98.7
130	9.297	9.729	9.114	9.246	8.566	8.672	8.687	9.061	120-130	83.15	24373	99.1,99.1
140	9.924	10.10	9.853	9.825	9.837	9.706	9.789	9.919	130-140	72.34	24445	99.4,99.4
150	10.45	10.46	10.48	10.26	10.46	10.26	10.40	10.51	140-150	63.95	24509	99.6,99.6
160	11.35	11.40	11.47	11.14	11.37	11.20	11.25	11.36	150-160	49.76	24559	99.8,99.8
170	12.11	11.90	12.25	11.86	12.21	12.01	12.17	11.65	160-170	33.29	24592	100,100
180	12.37	11.80	12.29	11.82	12.36	11.81	12.28	11.82	170-180	11.47	24604	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 19618 lm

%lum = 79.7%

%lamp = 79.7%

Conical surface Flux(120deg): 22801 lm

%lum = 92.7%

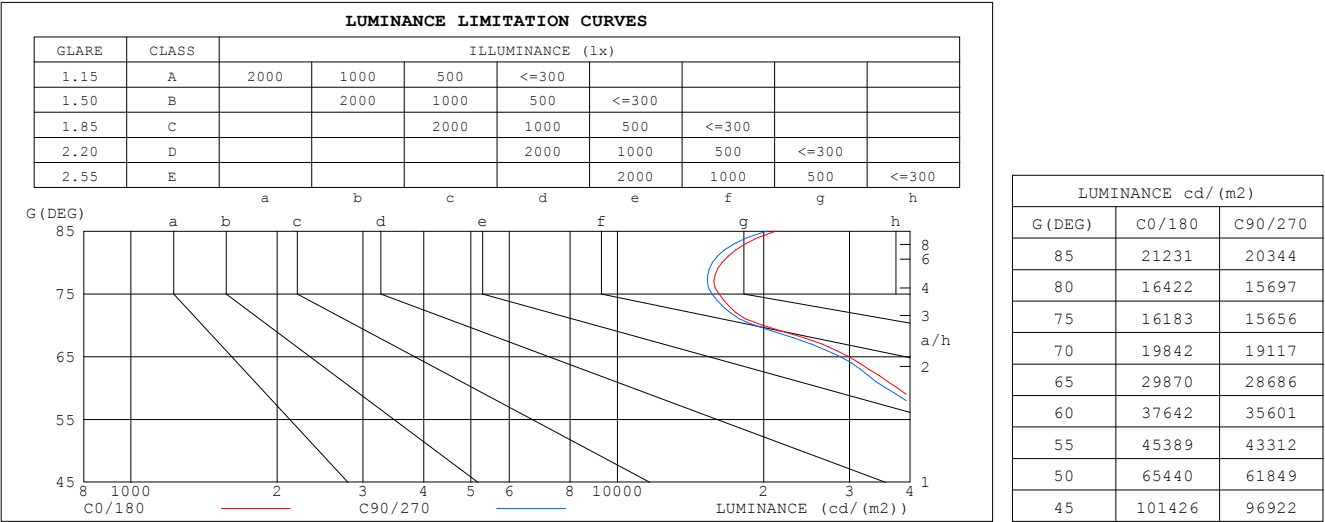
%lamp = 92.7%

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:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-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:

WEC AND CCEC

Test:U:120.6V I:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-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	.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 .089 .027	
5.0	.185 .094 .027	.181 .093 .027	.173 .090 .026	.165 .087 .026	.158 .084 .025	
6.0	.175 .088 .025	.171 .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	.136 .068 .020	.132 .067 .019	
10.0	.143 .068 .019	.140 .068 .019	.135 .066 .019	.130 .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 .034	.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:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm										
NAME: H17XL-RPC-150W-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	25.3	26.5	25.6	26.7	27.0	25.2	26.4	25.5	26.6	26.8
3H	25.5	26.6	25.8	26.8	27.1	25.3	26.4	25.6	26.7	26.9
4H	25.5	26.5	25.8	26.8	27.1	25.3	26.4	25.7	26.6	26.9
6H	25.5	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
8H	25.5	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
12H	25.5	26.4	25.9	26.7	27.0	25.3	26.2	25.7	26.5	26.9
4H 2H	25.3	26.3	25.6	26.6	26.9	25.2	26.2	25.5	26.5	26.8
3H	25.5	26.4	25.9	26.7	27.0	25.4	26.3	25.7	26.6	26.9
4H	25.6	26.4	26.0	26.7	27.1	25.4	26.2	25.8	26.6	26.9
6H	25.6	26.3	26.0	26.7	27.1	25.5	26.2	25.9	26.6	27.0
8H	25.7	26.3	26.1	26.7	27.1	25.5	26.2	26.0	26.6	27.0
12H	25.7	26.3	26.2	26.7	27.2	25.6	26.2	26.0	26.6	27.0
8H 4H	25.5	26.2	25.9	26.6	27.0	25.4	26.0	25.8	26.4	26.8
6H	25.6	26.2	26.1	26.6	27.1	25.5	26.0	26.0	26.5	26.9
8H	25.7	26.2	26.2	26.6	27.1	25.6	26.0	26.1	26.5	27.0
12H	25.8	26.2	26.3	26.7	27.2	25.7	26.1	26.2	26.6	27.1
12H 4H	25.5	26.1	25.9	26.5	26.9	25.3	25.9	25.8	26.4	26.8
6H	25.6	26.1	26.1	26.5	27.0	25.5	26.0	26.0	26.4	26.9
8H	25.7	26.1	26.2	26.6	27.1	25.6	26.0	26.1	26.5	27.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.3					+ 1.5 / - 2.4				
1.5H	+ 2.2 / - 2.1					+ 2.2 / - 2.0				
2.0H	+ 3.1 / - 1.6					+ 3.0 / - 1.6				

CIE Pub.117, 24604 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.1$)

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:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

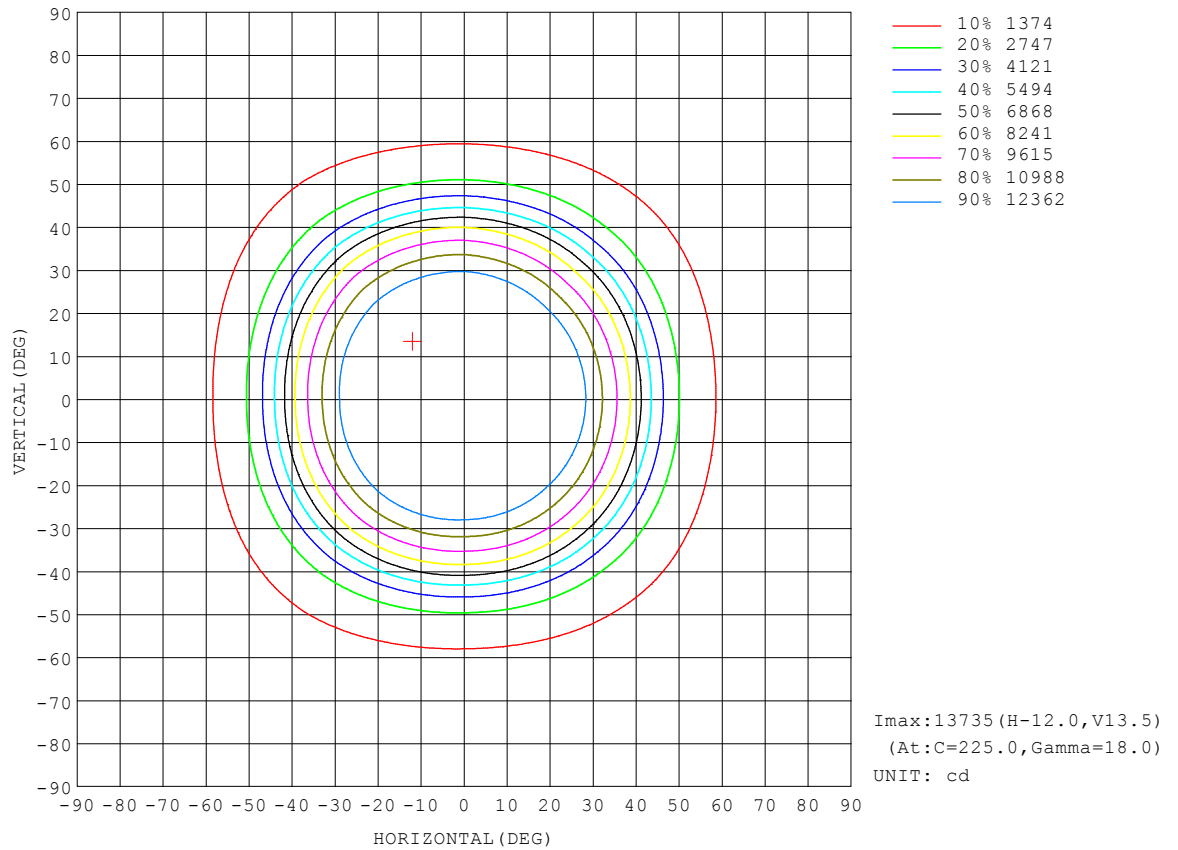
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	74	68	81	73	68	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:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

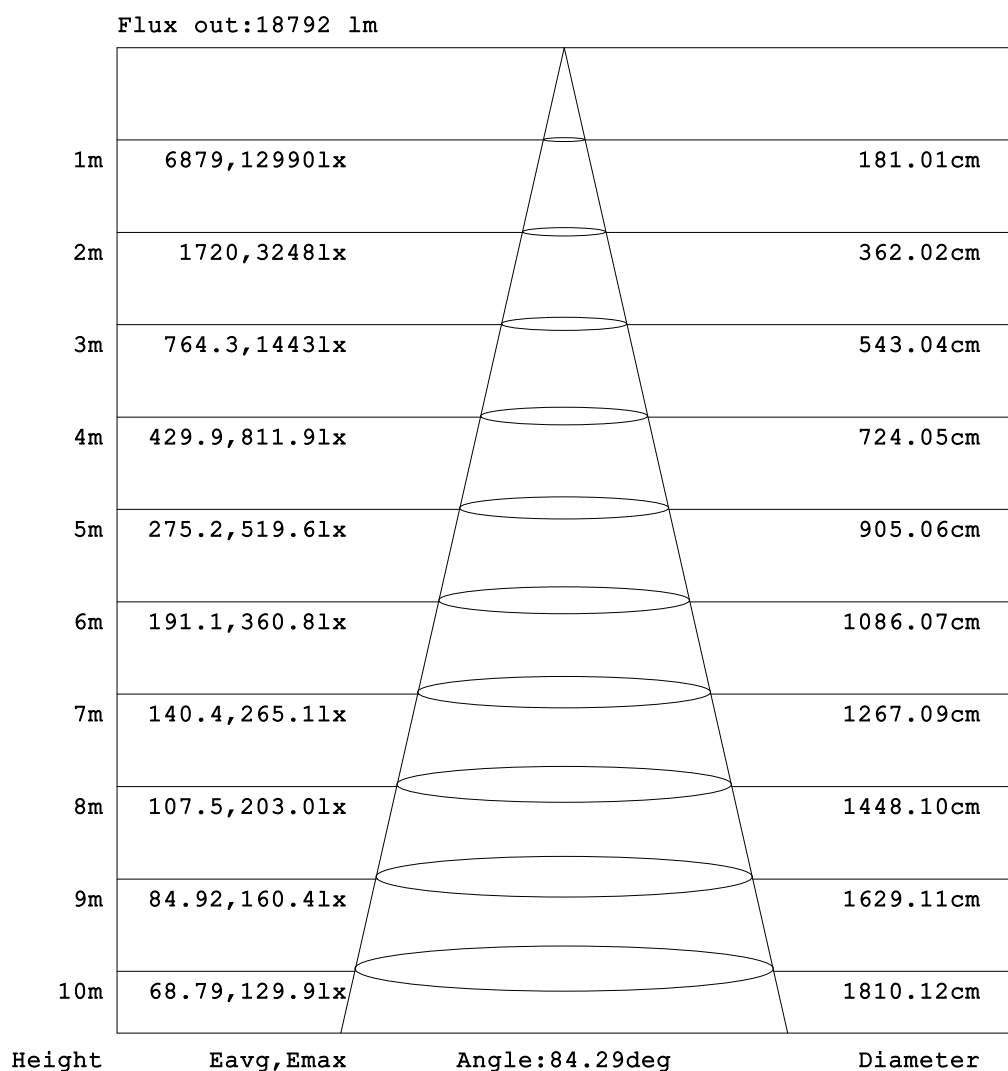


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-08-31

☐ 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:120.6V I:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm		
NAME: H17XL-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

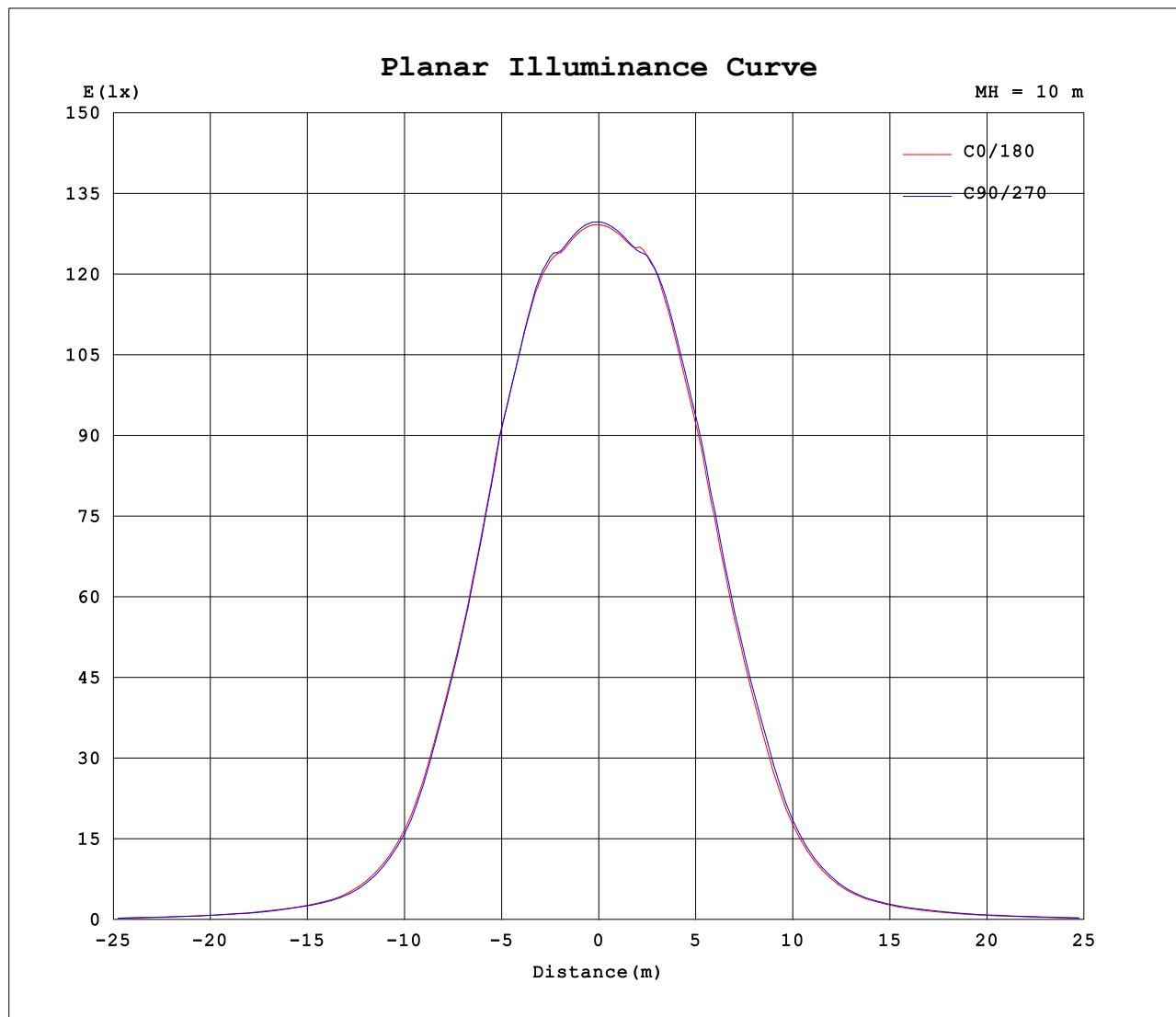


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.6V I:1.250A P:150.4W PF:0.9980 Freq:59.98Hz Lamp Flux:24603.7x1 lm								
NAME: H17XL-RPC-150W-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	1292	1295	1297	1299	1292	1295	1297	1299										
5	1296	1300	1302	1302	1294	1295	1298	1303										
10	1306	1308	1310	1312	1309	1308	1311	1315										
15	1346	1349	1354	1358	1356	1357	1359	1356										
20	1345	1344	1349	1355	1355	1367	1367	1351										
25	1297	1294	1295	1307	1307	1331	1326	1301										
30	1181	1170	1173	1201	1204	1241	1226	1180										
35	986	973	976	1010	1017	1066	1042	982										
40	758	729	743	785	788	847	823	752										
45	473	445	452	490	500	552	524	466										
50	278	257	262	290	293	323	311	275										
55	172	164	164	177	178	194	186	172										
60	124	117	117	126	122	135	132	125										
65	83.3	77.9	80.0	86.0	82.2	91.8	90.4	83.9										
70	44.8	41.3	43.2	47.2	45.2	52.2	50.8	44.8										
75	27.6	26.5	26.7	28.4	27.8	31.6	30.6	28.1										
80	18.8	17.5	18.0	19.5	19.0	21.2	20.6	19.4										
85	12.2	11.4	11.7	12.7	12.3	13.2	12.9	12.0										
90	7.33	6.73	7.04	7.60	7.21	7.31	7.47	7.35										
95	5.70	5.63	5.64	5.67	5.49	5.46	5.51	5.63										
100	5.60	5.68	5.66	5.53	5.40	5.38	5.42	5.52										
105	5.96	6.06	6.12	5.87	5.81	5.81	5.84	5.95										
110	6.73	6.98	6.93	6.78	6.74	6.75	6.61	6.89										
115	7.82	8.00	7.90	7.64	7.63	7.41	7.34	7.74										
120	9.19	9.57	9.30	9.26	8.45	8.62	8.65	9.45										
125	9.56	10.2	9.37	9.76	8.56	9.01	8.72	9.87										
130	9.30	9.73	9.11	9.25	8.57	8.67	8.69	9.06										
135	9.36	9.57	9.34	9.33	9.23	9.12	9.12	9.37										
140	9.92	10.1	9.85	9.83	9.84	9.71	9.79	9.92										
145	10.3	10.3	10.3	10.1	10.3	10.0	10.2	10.3										
150	10.4	10.5	10.5	10.3	10.5	10.3	10.4	10.5										
155	10.7	10.8	10.9	10.6	10.8	10.6	10.6	10.9										
160	11.4	11.4	11.5	11.1	11.4	11.2	11.3	11.4										
165	11.9	11.8	12.0	11.7	11.9	11.8	11.9	11.8										
170	12.1	11.9	12.3	11.9	12.2	12.0	12.2	11.7										
175	12.2	11.8	12.2	11.9	12.2	11.9	12.1	11.7										
180	12.4	11.8	12.3	11.8	12.4	11.8	12.3	11.8										

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: