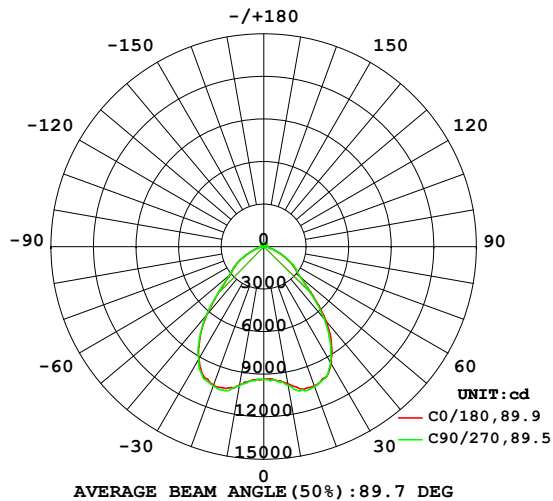


LUMINAIRE PHOTOMETRIC TEST REPORT

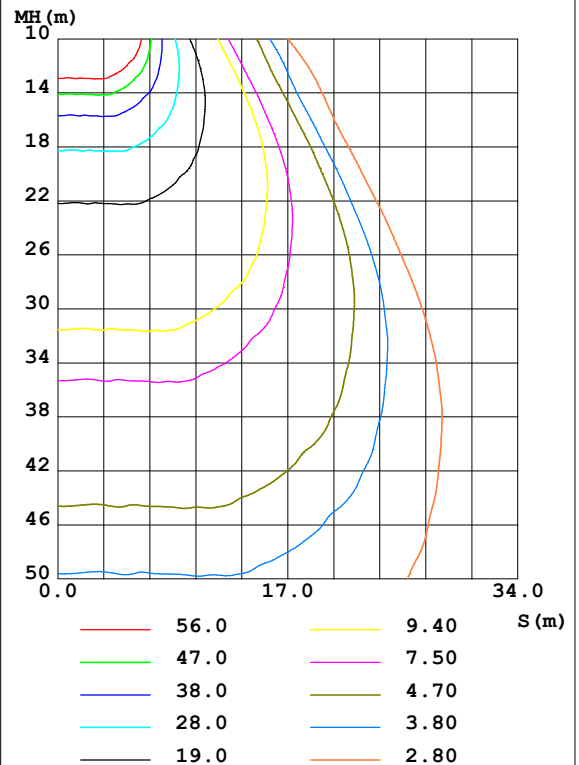
Test:U:120.5V I:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.16 lm/W			
MODEL		I _{max} (cd)	10603	S/MH(C0/180)	1.26
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	22995	□ UP,DN(C0-180)	2.9,48.2
NOMINAL FLUX(lm)	22994.8	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.8,46.1
LAMPS INSIDE	1	□ up(%)	5.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	94.3	CIBSE SHR MAX	1.30

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	980.8	985.6	991.9	988.1	991.6	979.3	998.1	1002	0- 10	918.4	918.4	3.99,3.99
20	1046	1049	1050	1033	1036	1042	1046	1044	10- 20	2942	3860	16.8,16.8
30	953.2	950.8	942.7	935.0	914.2	924.4	919.4	927.0	20- 30	4640	8500	37,37
40	683.9	673.2	662.4	655.2	625.0	631.7	630.9	628.0	30- 40	4997	13498	58.7,58.7
50	343.6	349.8	340.9	340.9	313.2	315.9	318.7	315.5	40- 50	3625	17123	74.5,74.5
60	208.5	215.2	214.8	214.7	192.8	198.2	197.5	194.2	50- 60	2373	19495	84.8,84.8
70	91.20	90.80	88.97	89.26	75.96	80.41	79.55	76.99	60- 70	1415	20910	90.9,90.9
80	33.95	34.43	32.08	32.33	29.50	29.26	29.53	28.98	70- 80	559.1	21469	93.4,93.4
90	13.82	13.68	13.88	13.91	13.73	13.51	13.79	13.85	80- 90	219.6	21689	94.3,94.3
100	17.17	17.19	17.07	16.89	17.48	17.42	17.78	17.82	90-100	159.2	21848	95,95
110	19.56	20.01	19.22	19.21	18.90	19.30	19.48	20.03	100-110	196.3	22044	95.9,95.9
120	20.11	21.72	19.68	21.08	19.40	20.34	19.20	20.99	110-120	198.3	22243	96.7,96.7
130	21.74	24.31	21.68	22.70	21.10	21.17	20.47	21.70	120-130	187.7	22430	97.5,97.5
140	23.75	25.70	23.56	24.67	23.57	24.20	23.10	25.50	130-140	176.4	22607	98.3,98.3
150	28.14	29.17	28.25	29.51	28.59	28.91	28.63	30.12	140-150	166.5	22773	99,99
160	28.75	26.20	28.78	26.20	27.91	25.43	27.95	25.77	150-160	132.8	22906	99.6,99.6
170	22.92	19.73	22.93	19.93	21.89	19.58	21.29	18.89	160-170	68.66	22975	99.9,99.9
180	25.53	22.92	25.91	21.21	25.50	23.36	25.94	20.91	170-180	20.03	22995	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 15545 lm

%lum = 67.6%

%lamp = 67.6%

Conical surface Flux(120deg): 19495 lm

%lum = 84.8%

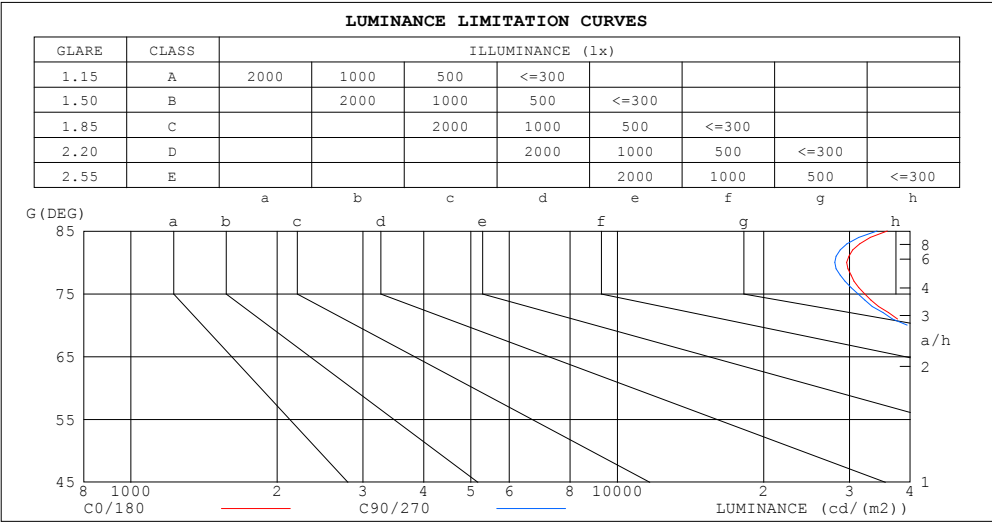
%lamp = 84.8%

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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-150W-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	35886	34218
80	29626	27992
75	32249	31222
70	40402	39413
65	53641	54282
60	63181	65092
55	71657	73477
50	80983	80349
45	105268	101742

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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-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	.253 .144 .046	.244 .139 .044	.228 .131 .042	.213 .123 .039	.199 .115 .037	
2.0	.241 .132 .041	.234 .129 .040	.219 .122 .038	.206 .116 .036	.194 .110 .035	
3.0	.227 .121 .036	.221 .118 .036	.208 .113 .034	.196 .108 .033	.185 .103 .032	
4.0	.213 .111 .033	.207 .109 .032	.196 .104 .031	.186 .100 .030	.176 .096 .029	
5.0	.200 .102 .030	.195 .100 .029	.185 .096 .028	.175 .093 .028	.167 .089 .027	
6.0	.188 .094 .027	.183 .093 .027	.174 .089 .026	.166 .086 .025	.158 .083 .025	
7.0	.177 .088 .025	.173 .086 .025	.165 .083 .024	.157 .080 .023	.150 .078 .023	
8.0	.167 .082 .023	.163 .080 .023	.156 .078 .022	.149 .075 .022	.142 .073 .021	
9.0	.158 .076 .021	.154 .075 .021	.148 .073 .021	.141 .071 .020	.135 .069 .020	
10.0	.150 .072 .020	.146 .071 .020	.140 .069 .019	.134 .067 .019	.129 .065 .019	

<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	.234 .234 .234	.200 .200 .200	.136 .136 .136	.078 .078 .078	.025 .025 .025	
1.0	.220 .200 .183	.188 .172 .157	.129 .118 .109	.074 .068 .063	.024 .022 .020	
2.0	.209 .176 .148	.179 .152 .128	.123 .105 .089	.071 .061 .052	.023 .020 .017	
3.0	.200 .158 .124	.172 .136 .108	.118 .095 .076	.068 .055 .045	.022 .018 .015	
4.0	.192 .145 .108	.165 .125 .094	.114 .087 .066	.066 .051 .039	.021 .017 .013	
5.0	.185 .134 .096	.159 .116 .084	.109 .081 .059	.063 .048 .035	.020 .016 .012	
6.0	.178 .125 .087	.153 .109 .076	.106 .076 .054	.061 .045 .032	.020 .015 .011	
7.0	.172 .118 .081	.148 .103 .071	.102 .072 .050	.059 .042 .030	.019 .014 .010	
8.0	.166 .113 .076	.143 .098 .066	.099 .069 .047	.058 .040 .028	.019 .013 .009	
9.0	.161 .108 .072	.138 .094 .063	.096 .066 .045	.056 .039 .027	.018 .013 .009	
10.0	.156 .104 .069	.134 .090 .060	.093 .063 .043	.054 .037 .025	.018 .012 .008	

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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm										
NAME: H17XL-RPC-RDL-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	26.9	28.1	27.2	28.4	28.7	26.9	28.1	27.2	28.4	28.7
3H	27.5	28.6	27.8	28.9	29.3	27.5	28.6	27.8	28.9	29.3
4H	27.6	28.7	28.0	29.0	29.4	27.6	28.7	28.0	29.0	29.4
6H	27.7	28.7	28.1	29.1	29.5	27.7	28.7	28.1	29.0	29.4
8H	27.7	28.7	28.2	29.1	29.5	27.7	28.7	28.1	29.0	29.4
12H	27.8	28.7	28.2	29.1	29.5	27.7	28.7	28.2	29.1	29.5
4H 2H	27.1	28.2	27.5	28.6	28.9	27.1	28.2	27.5	28.6	28.9
3H	27.8	28.8	28.3	29.2	29.6	27.8	28.8	28.3	29.2	29.6
4H	28.1	28.9	28.5	29.3	29.8	28.0	28.9	28.5	29.3	29.7
6H	28.2	29.0	28.7	29.4	29.9	28.2	29.0	28.7	29.4	29.9
8H	28.3	29.0	28.8	29.5	30.0	28.3	29.0	28.8	29.4	29.9
12H	28.4	29.0	28.9	29.5	30.0	28.3	29.0	28.9	29.5	30.0
8H 4H	28.1	28.8	28.6	29.2	29.7	28.1	28.8	28.6	29.2	29.7
6H	28.4	28.9	28.9	29.4	30.0	28.3	28.9	28.9	29.4	29.9
8H	28.5	29.0	29.1	29.5	30.1	28.5	29.0	29.0	29.5	30.0
12H	28.7	29.1	29.2	29.6	30.2	28.6	29.0	29.2	29.6	30.2
12H 4H	28.1	28.7	28.6	29.2	29.7	28.0	28.7	28.6	29.2	29.7
6H	28.4	28.9	28.9	29.4	30.0	28.3	28.8	28.9	29.3	29.9
8H	28.5	29.0	29.1	29.5	30.1	28.5	28.9	29.1	29.5	30.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.6				
2.0H	+ 1.0 / - 0.7					+ 0.9 / - 0.6				

CIE Pub.117, 22995 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.9$)

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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

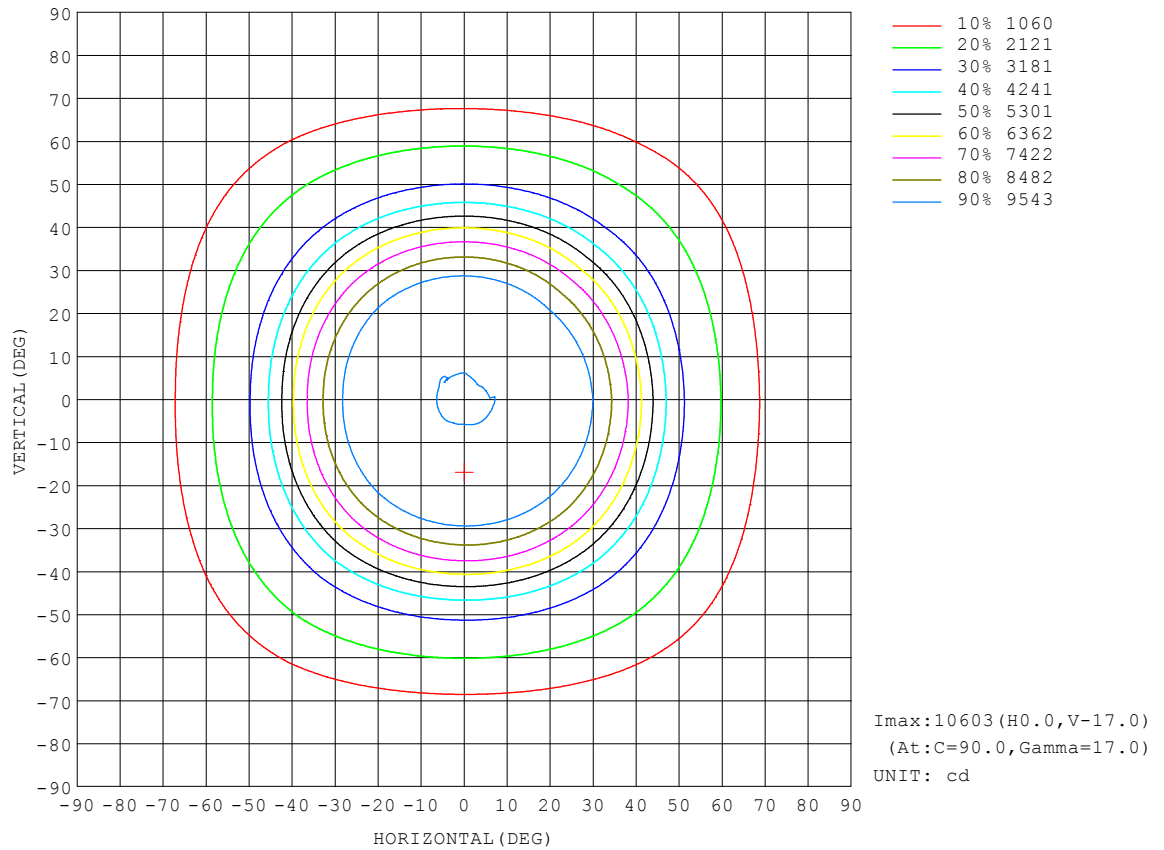
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	63	55	49	44
0.80	75	66	59	74	65	59	72	64	59	53
1.00	83	74	68	81	73	67	79	73	66	60
1.25	89	80	75	87	79	74	84	78	73	66
1.50	93	85	80	91	84	79	88	82	77	70
2.00	99	92	87	97	90	85	93	88	83	76
2.50	102	95	91	99	94	89	95	90	87	78
3.00	104	99	94	102	97	93	97	93	90	81
4.00	108	103	99	105	101	97	100	97	94	84
5.00	110	106	102	107	103	100	101	99	96	86
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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

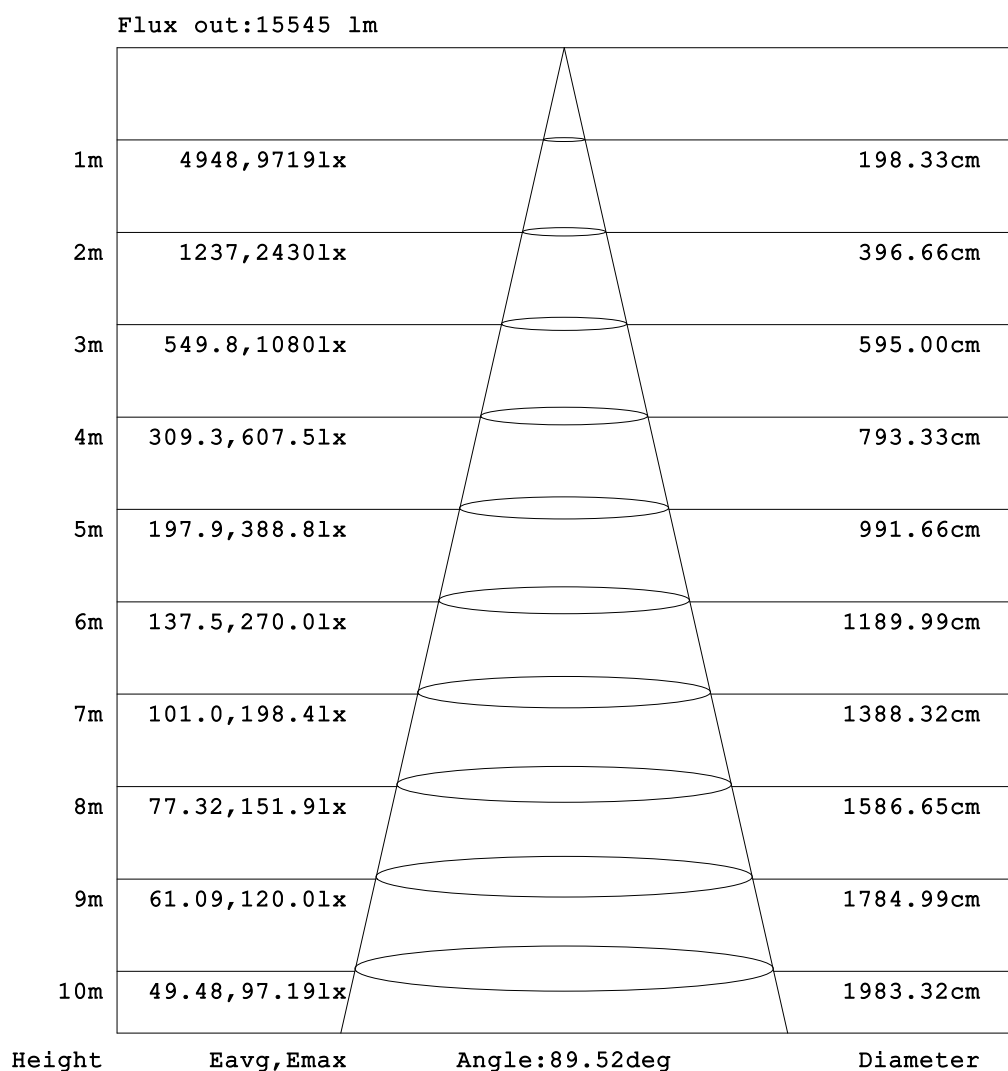


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

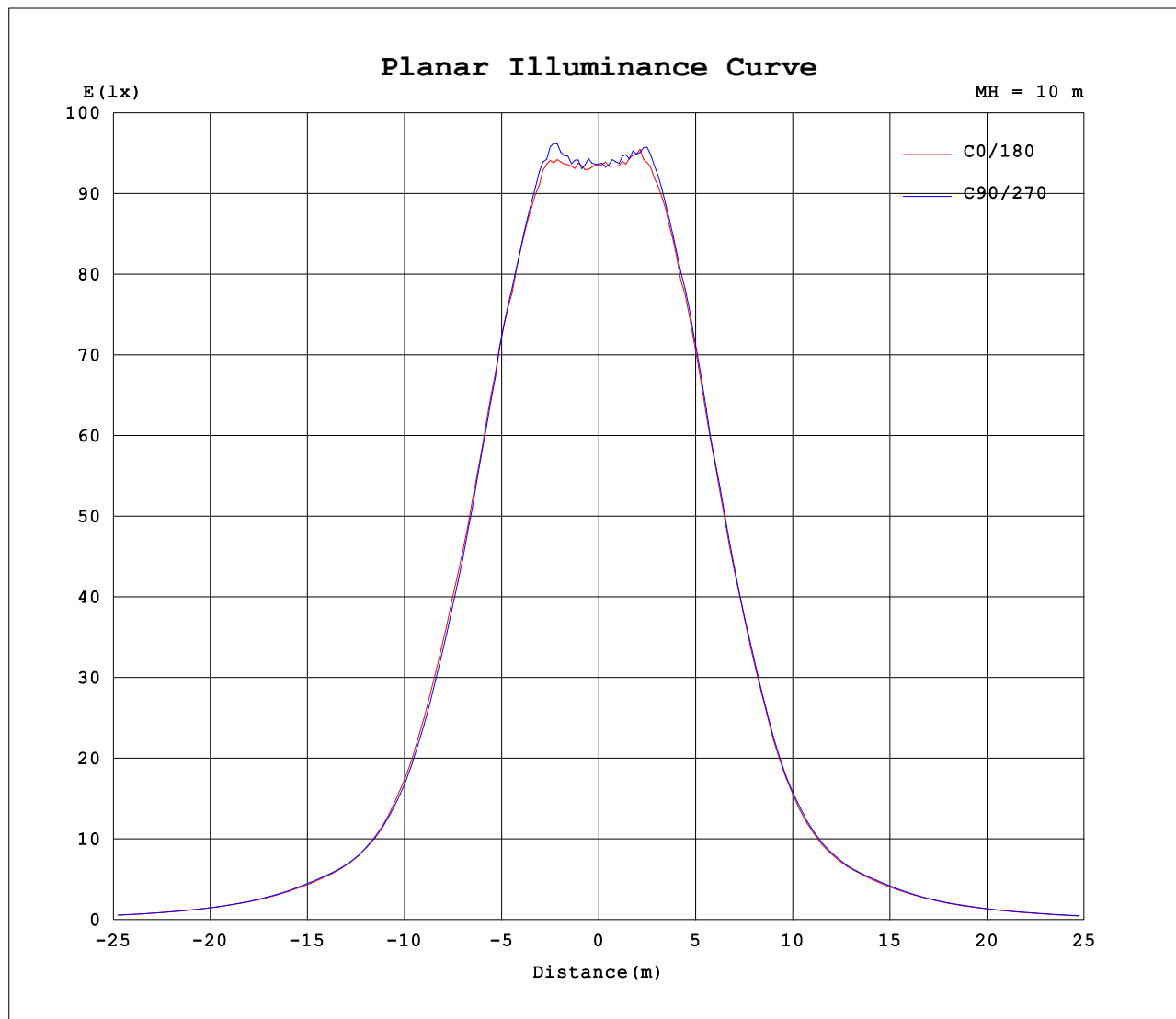


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

☐ 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:1.248A P:150.1W PF:0.9980 Freq:59.98Hz Lamp Flux:22994.8x1 lm		
NAME: H17XL-RPC-RDL-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	935	937	937	939	935	937	937	939										
5	946	946	942	946	945	947	950	956										
10	981	986	992	988	992	979	998	1002										
15	1039	1044	1046	1042	1035	1039	1052	1056										
20	1046	1049	1050	1033	1036	1042	1046	1044										
25	1020	1020	1024	1017	1007	1017	1019	1014										
30	953	951	943	935	914	924	919	927										
35	832	834	814	811	786	796	793	793										
40	684	673	662	655	625	632	631	628										
45	491	488	475	476	441	448	447	446										
50	344	350	341	341	313	316	319	315										
55	271	283	278	276	255	259	262	257										
60	208	215	215	215	193	198	198	194										
65	150	153	151	151	132	138	137	134										
70	91.2	90.8	89.0	89.3	76.0	80.4	79.6	77.0										
75	55.1	56.1	53.3	52.5	47.2	48.1	48.3	46.6										
80	34.0	34.4	32.1	32.3	29.5	29.3	29.5	29.0										
85	20.6	20.2	19.7	20.1	18.2	18.0	18.3	17.9										
90	13.8	13.7	13.9	13.9	13.7	13.5	13.8	13.9										
95	13.6	13.5	13.6	13.7	14.1	13.9	14.1	14.1										
100	17.2	17.2	17.1	16.9	17.5	17.4	17.8	17.8										
105	18.8	18.7	18.5	18.2	18.5	18.4	18.9	18.8										
110	19.6	20.0	19.2	19.2	18.9	19.3	19.5	20.0										
115	20.0	21.0	19.3	20.2	19.0	20.0	19.3	20.9										
120	20.1	21.7	19.7	21.1	19.4	20.3	19.2	21.0										
125	20.7	22.8	20.4	21.5	20.1	20.5	19.6	21.1										
130	21.7	24.3	21.7	22.7	21.1	21.2	20.5	21.7										
135	22.3	24.5	22.3	23.5	22.1	22.3	21.4	22.9										
140	23.8	25.7	23.6	24.7	23.6	24.2	23.1	25.5										
145	25.8	27.2	26.0	27.1	25.9	26.7	25.8	28.2										
150	28.1	29.2	28.2	29.5	28.6	28.9	28.6	30.1										
155	28.9	28.8	29.1	29.1	28.9	28.4	29.0	29.0										
160	28.8	26.2	28.8	26.2	27.9	25.4	27.9	25.8										
165	26.3	22.8	26.0	22.6	24.7	21.5	24.4	21.8										
170	22.9	19.7	22.9	19.9	21.9	19.6	21.3	18.9										
175	22.6	21.4	22.7	20.2	23.4	21.9	21.8	19.3										
180	25.5	22.9	25.9	21.2	25.5	23.4	25.9	20.9										

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: