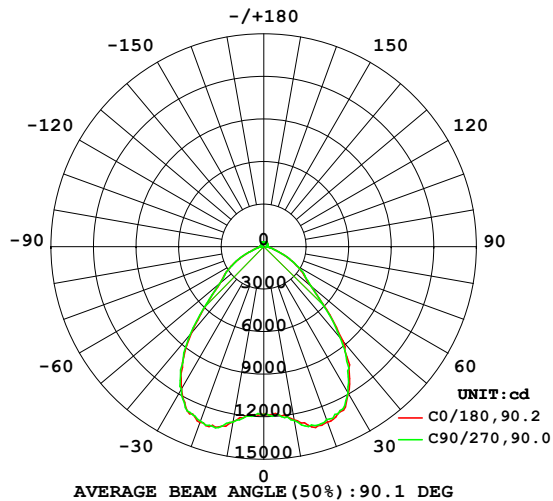


LUMINAIRE PHOTOMETRIC TEST REPORT

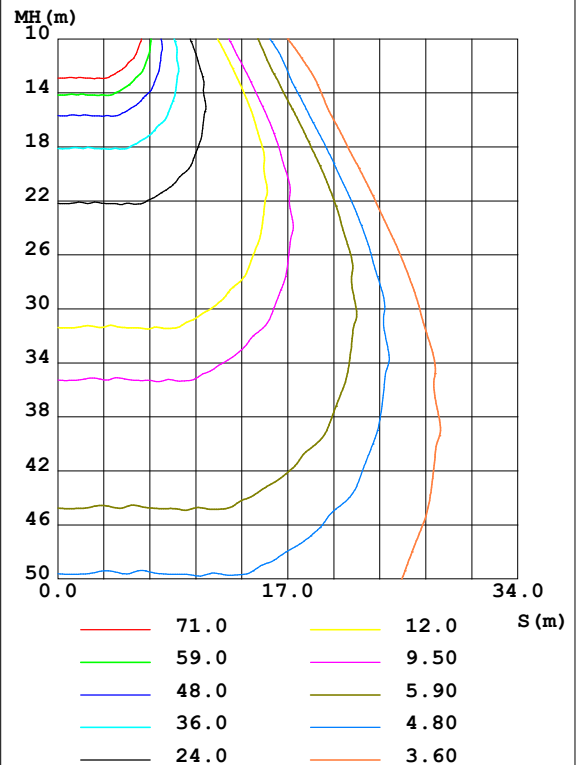
Test:U:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.10 lm/W			
MODEL		I _{max} (cd)	13331	S/MH(C0/180)	1.26
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	29188	□ UP,DN(C0-180)	2.9,48.1
NOMINAL FLUX(lm)	29188.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.8,46.2
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	1240	1249	1246	1228	1254	1244	1257	1249	0- 10	1158	1158	3.97,3.97
20	1317	1319	1298	1291	1319	1314	1309	1306	10- 20	3694	4852	16.6,16.6
30	1194	1194	1191	1182	1162	1169	1164	1156	20- 30	5838	10690	36.6,36.6
40	867.3	866.0	840.2	834.4	796.4	814.9	810.2	791.3	30- 40	6343	17033	58.4,58.4
50	436.8	451.9	437.7	433.5	406.1	412.5	408.0	399.2	40- 50	4641	21674	74.3,74.3
60	268.3	275.6	273.5	270.6	252.8	256.9	249.6	245.3	50- 60	3036	24711	84.7,84.7
70	117.5	113.2	115.0	113.7	99.30	102.5	100.7	99.16	60- 70	1809	26519	90.9,90.9
80	43.36	41.91	42.24	43.23	37.16	37.14	38.03	38.75	70- 80	717.9	27237	93.3,93.3
90	17.68	17.34	18.09	18.19	17.52	17.31	17.70	17.90	80- 90	283.0	27520	94.3,94.3
100	22.00	22.01	21.82	21.49	22.59	22.38	22.62	22.74	90-100	204.3	27724	95,95
110	25.40	25.58	24.27	24.51	24.50	25.01	24.64	25.60	100-110	251.3	27976	95.8,95.8
120	25.65	27.92	25.23	26.75	24.43	25.79	24.81	27.07	110-120	253.6	28229	96.7,96.7
130	27.64	30.69	27.81	28.81	26.71	26.20	26.25	28.16	120-130	239.2	28469	97.5,97.5
140	29.96	32.49	30.54	31.67	30.46	30.32	29.71	32.39	130-140	224.3	28693	98.3,98.3
150	35.71	37.88	36.10	37.55	37.09	37.39	35.99	37.16	140-150	213.0	28906	99,99
160	36.66	33.45	36.79	33.26	35.19	32.57	36.14	32.49	150-160	169.1	29075	99.6,99.6
170	30.19	24.92	29.16	25.19	27.60	24.73	26.61	24.56	160-170	87.66	29163	99.9,99.9
180	32.24	28.89	31.89	28.25	32.23	28.72	32.25	28.34	170-180	25.47	29188	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 19649 lm

%lum = 67.3%

%lamp = 67.3%

Conical surface Flux(120deg): 24711 lm

%lum = 84.7%

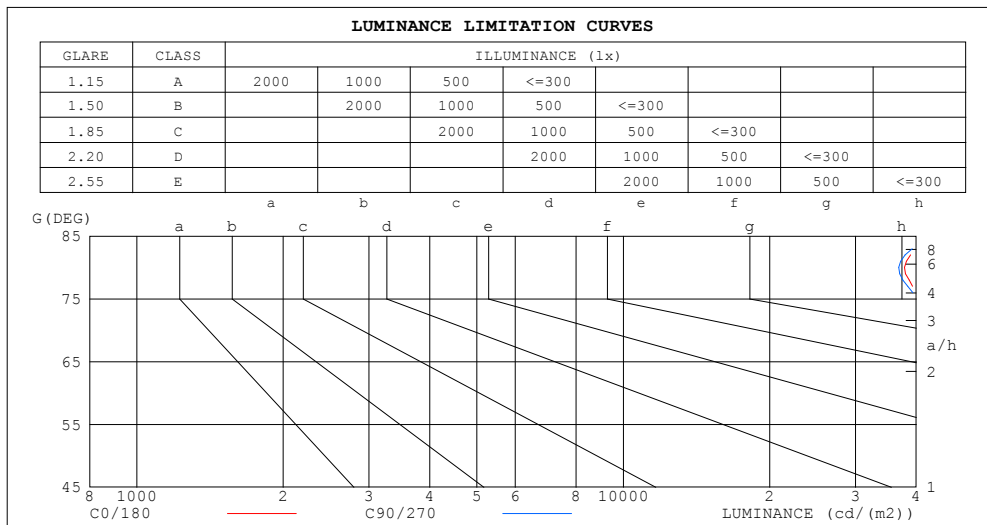
%lamp = 84.7%

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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	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	45751	45117
80	37834	36857
75	41674	40484
70	52043	50942
65	69182	68805
60	81291	82865
55	91450	93673
50	102961	103178
45	134021	131784

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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	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	.245 .140 .044	.228 .131 .042	.214 .123 .040	.200 .116 .037	
2.0	.242 .133 .041	.234 .129 .040	.220 .122 .038	.207 .116 .036	.195 .110 .035	
3.0	.228 .121 .036	.221 .118 .036	.209 .113 .034	.197 .108 .033	.186 .103 .032	
4.0	.214 .111 .033	.208 .109 .032	.197 .104 .031	.186 .100 .030	.176 .096 .029	
5.0	.201 .102 .030	.195 .100 .029	.185 .096 .028	.176 .093 .028	.167 .089 .027	
6.0	.189 .095 .027	.184 .093 .027	.175 .089 .026	.166 .086 .025	.158 .083 .025	
7.0	.177 .088 .025	.173 .086 .025	.165 .083 .024	.157 .081 .023	.150 .078 .023	
8.0	.167 .082 .023	.163 .080 .023	.156 .078 .022	.149 .075 .022	.142 .073 .021	
9.0	.158 .077 .021	.155 .075 .021	.148 .073 .021	.141 .071 .020	.135 .069 .020	
10.0	.150 .072 .020	.147 .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	.137 .137 .137	.078 .078 .078	.025 .025 .025	
1.0	.220 .201 .183	.188 .172 .157	.129 .118 .109	.074 .069 .063	.024 .022 .020	
2.0	.210 .176 .148	.180 .152 .128	.123 .105 .089	.071 .061 .052	.023 .020 .017	
3.0	.201 .158 .125	.172 .137 .108	.118 .095 .076	.068 .055 .045	.022 .018 .015	
4.0	.193 .145 .108	.165 .125 .094	.114 .087 .066	.066 .051 .039	.021 .017 .013	
5.0	.185 .134 .096	.159 .116 .084	.110 .081 .059	.064 .048 .035	.020 .016 .012	
6.0	.179 .126 .088	.154 .109 .076	.106 .076 .054	.061 .045 .032	.020 .015 .011	
7.0	.172 .119 .081	.148 .103 .071	.102 .072 .050	.060 .043 .030	.019 .014 .010	
8.0	.167 .113 .076	.143 .098 .066	.099 .069 .047	.058 .041 .028	.019 .013 .009	
9.0	.161 .108 .072	.139 .094 .063	.096 .066 .045	.056 .039 .027	.018 .013 .009	
10.0	.156 .104 .069	.134 .090 .060	.093 .063 .043	.054 .038 .026	.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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm										
NAME: H17XL-RPC-RDL-200W-5K					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	27.8	29.0	28.1	29.3	29.6	27.8	29.0	28.1	29.3	29.6
3H	28.3	29.5	28.7	29.8	30.1	28.3	29.5	28.7	29.8	30.1
4H	28.5	29.6	28.9	29.9	30.3	28.5	29.6	28.8	29.9	30.2
6H	28.6	29.6	29.0	30.0	30.3	28.5	29.6	29.0	29.9	30.3
8H	28.6	29.6	29.0	30.0	30.4	28.6	29.6	29.0	29.9	30.3
12H	28.6	29.6	29.1	30.0	30.4	28.6	29.6	29.0	29.9	30.3
4H 2H	28.0	29.1	28.4	29.4	29.8	28.0	29.1	28.4	29.4	29.8
3H	28.7	29.6	29.1	30.0	30.4	28.7	29.6	29.1	30.0	30.4
4H	28.9	29.8	29.4	30.2	30.6	28.9	29.7	29.4	30.2	30.6
6H	29.1	29.8	29.6	30.3	30.8	29.1	29.8	29.5	30.3	30.7
8H	29.2	29.9	29.7	30.3	30.8	29.1	29.8	29.6	30.3	30.8
12H	29.3	29.9	29.8	30.4	30.9	29.2	29.9	29.7	30.3	30.9
8H 4H	28.9	29.6	29.4	30.1	30.6	28.9	29.6	29.4	30.1	30.6
6H	29.2	29.8	29.7	30.3	30.8	29.2	29.7	29.7	30.2	30.8
8H	29.3	29.8	29.9	30.4	30.9	29.3	29.8	29.9	30.3	30.9
12H	29.5	29.9	30.1	30.5	31.1	29.5	29.9	30.0	30.4	31.0
12H 4H	28.9	29.5	29.4	30.0	30.5	28.9	29.5	29.4	30.0	30.5
6H	29.2	29.7	29.8	30.2	30.8	29.2	29.7	29.7	30.2	30.8
8H	29.4	29.8	29.9	30.3	30.9	29.3	29.8	29.9	30.3	30.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 0.7 / - 0.6					+ 0.6 / - 0.6				
2.0H	+ 1.0 / - 0.7					+ 0.9 / - 0.6				

CIE Pub.117, 29188 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.7$)

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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

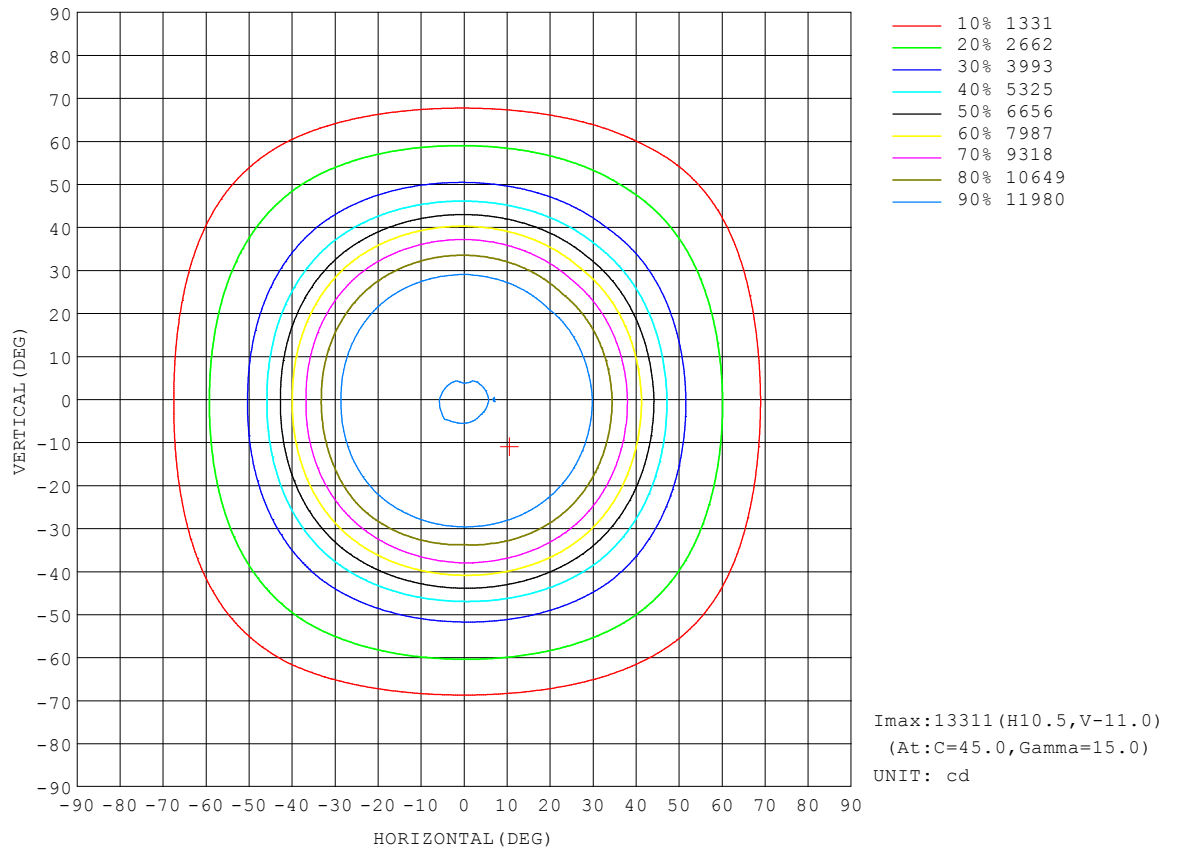
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	56	50	65	55	49	63	55	49	44
0.80	75	65	59	74	65	59	72	64	58	52
1.00	83	73	67	81	73	67	79	73	66	60
1.25	89	80	74	87	79	74	84	77	73	66
1.50	93	85	79	91	84	79	88	82	77	70
2.00	99	92	86	97	90	85	93	87	83	75
2.50	102	95	90	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	109	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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

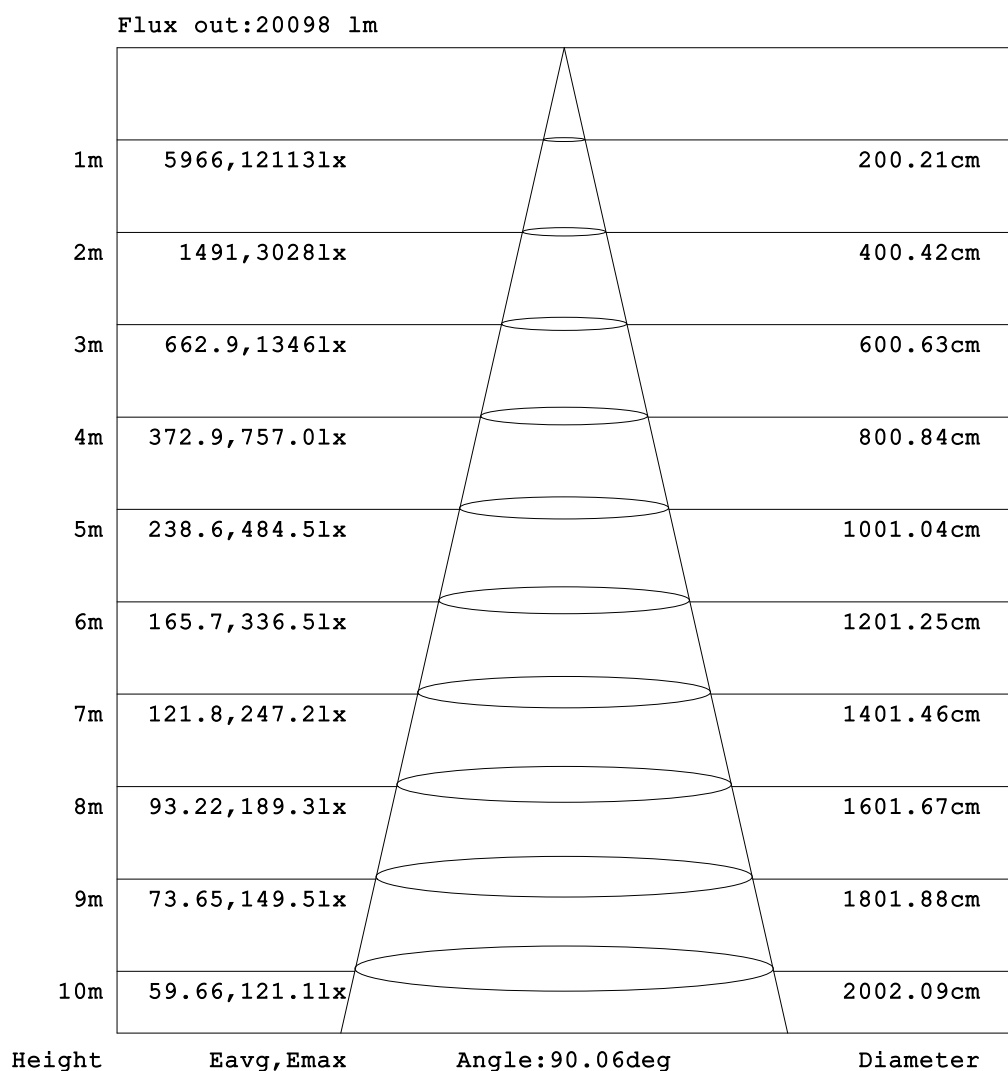


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm		
NAME: H17XL-RPC-RDL-200W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

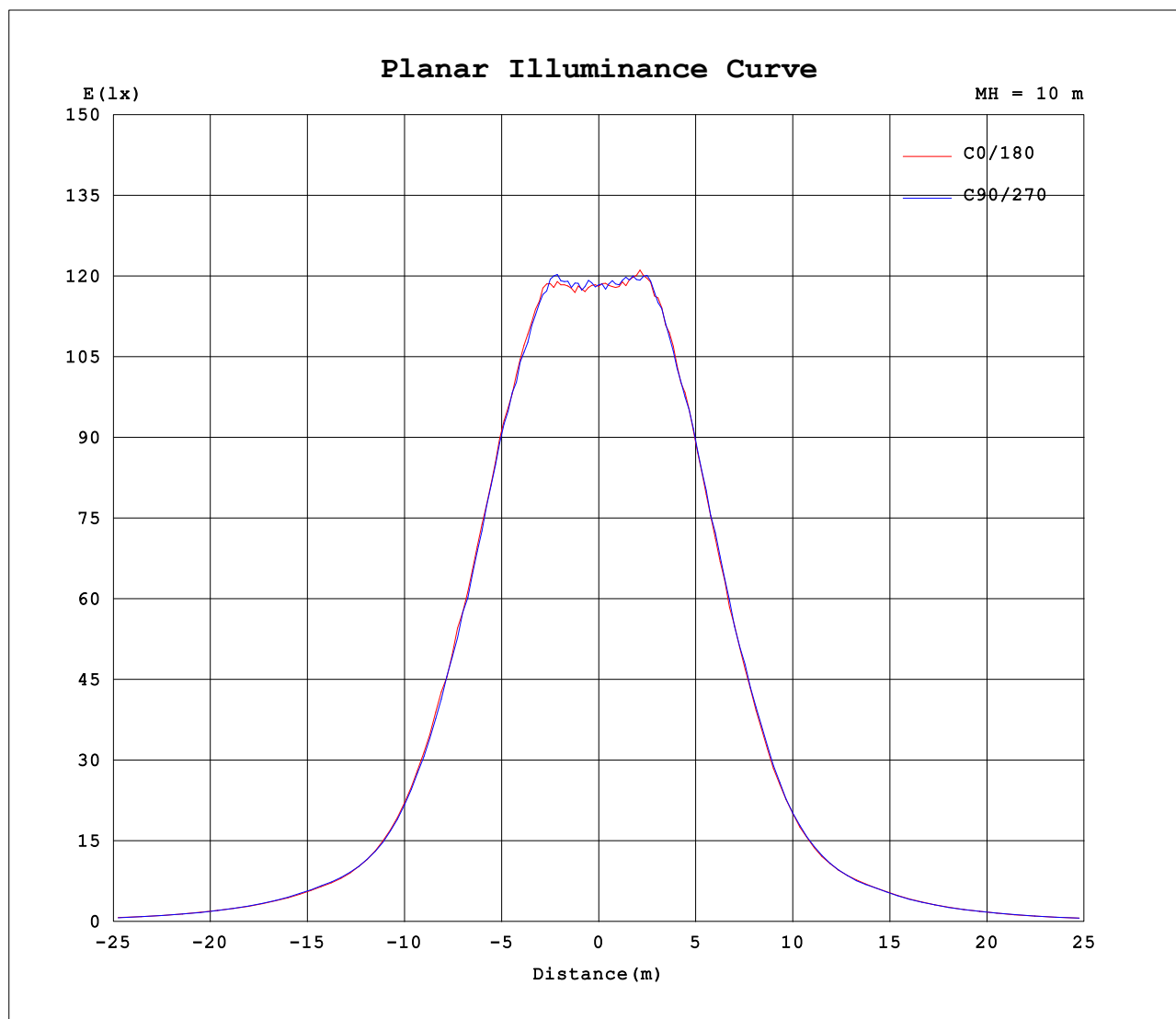


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.4V I:1.698A P:204.0W PF:0.9979 Freq:59.98Hz Lamp Flux:29188.2x1 lm								
NAME: H17XL-RPC-RDL-200W-5K					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	1181	1181	1184	1186	1181	1181	1184	1186										
5	1190	1197	1188	1188	1192	1199	1200	1197										
10	1240	1249	1246	1228	1254	1244	1257	1249										
15	1315	1333	1301	1293	1319	1317	1322	1310										
20	1317	1319	1298	1291	1319	1314	1309	1306										
25	1284	1278	1275	1286	1278	1290	1278	1266										
30	1194	1194	1191	1182	1162	1169	1164	1156										
35	1048	1046	1047	1020	1002	1018	999	1014										
40	867	866	840	834	796	815	810	791										
45	625	631	615	606	570	586	572	565										
50	437	452	438	434	406	412	408	399										
55	346	360	355	348	333	338	331	325										
60	268	276	273	271	253	257	250	245										
65	193	195	192	191	174	176	174	170										
70	117	113	115	114	99.3	103	101	99.2										
75	71.2	69.1	69.2	69.2	60.7	61.4	61.3	61.9										
80	43.4	41.9	42.2	43.2	37.2	37.1	38.0	38.8										
85	26.3	25.0	26.0	26.8	22.9	23.0	23.6	23.7										
90	17.7	17.3	18.1	18.2	17.5	17.3	17.7	17.9										
95	17.6	17.4	17.7	17.5	18.1	17.9	18.0	18.0										
100	22.0	22.0	21.8	21.5	22.6	22.4	22.6	22.7										
105	24.1	23.9	23.5	23.2	23.9	23.8	24.0	24.2										
110	25.4	25.6	24.3	24.5	24.5	25.0	24.6	25.6										
115	25.7	26.9	24.5	25.7	24.3	25.7	24.7	26.7										
120	25.6	27.9	25.2	26.8	24.4	25.8	24.8	27.1										
125	26.3	29.2	26.4	27.2	25.3	25.7	25.3	27.2										
130	27.6	30.7	27.8	28.8	26.7	26.2	26.3	28.2										
135	28.4	30.9	28.7	30.0	28.1	27.4	27.4	29.5										
140	30.0	32.5	30.5	31.7	30.5	30.3	29.7	32.4										
145	32.6	35.4	33.7	34.5	33.8	34.3	32.7	35.1										
150	35.7	37.9	36.1	37.5	37.1	37.4	36.0	37.2										
155	37.0	36.8	37.1	36.9	37.0	36.4	37.3	36.1										
160	36.7	33.4	36.8	33.3	35.2	32.6	36.1	32.5										
165	34.4	28.9	33.2	28.5	31.2	27.8	31.5	27.7										
170	30.2	24.9	29.2	25.2	27.6	24.7	26.6	24.6										
175	29.6	26.8	28.8	25.5	28.9	26.7	26.9	26.6										
180	32.2	28.9	31.9	28.3	32.2	28.7	32.2	28.3										

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: