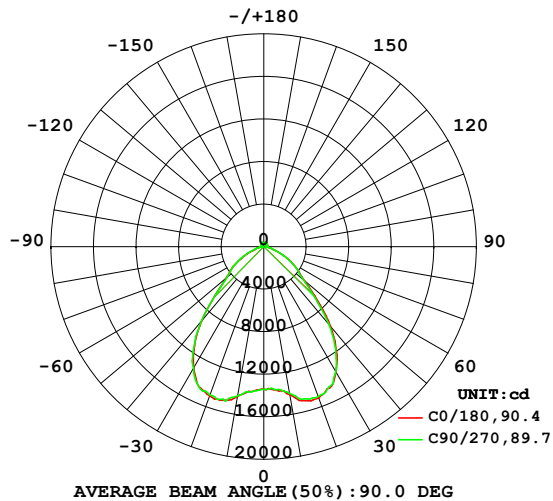


LUMINAIRE PHOTOMETRIC TEST REPORT

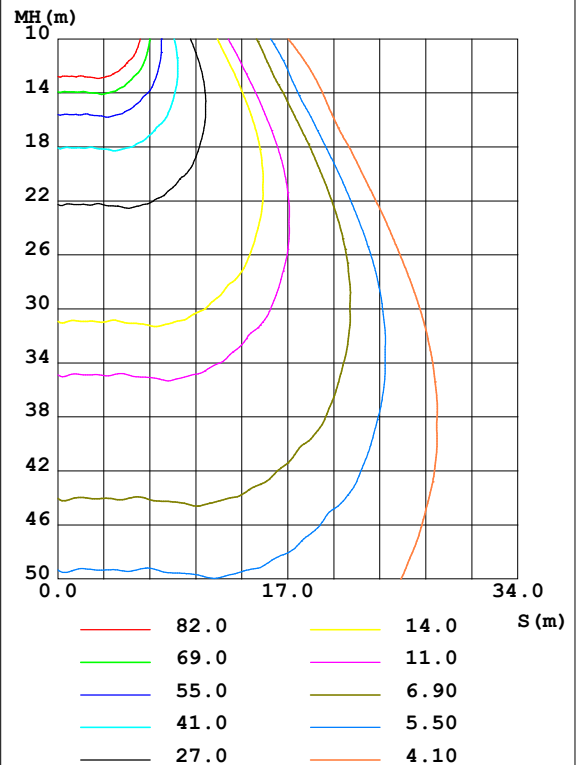
Test:U:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.35 lm/W			
MODEL		I _{max} (cd)	15178	S/MH(C0/180)	1.27
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	33146	□ UP,DN(C0-180)	2.9,48.0
NOMINAL FLUX(lm)	33145.8	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.9,46.2
LAMPS INSIDE	1	□ up(%)	5.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	94.2	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	1414	1408	1400	1409	1431	1429	1424	1439	0- 10	1314	1314	3.97,3.97
20	1516	1500	1501	1495	1492	1488	1483	1494	10- 20	4209	5523	16.7,16.7
30	1359	1367	1358	1341	1316	1328	1319	1327	20- 30	6653	12176	36.7,36.7
40	977.4	982.7	951.7	937.6	911.2	924.2	915.8	895.0	30- 40	7206	19382	58.5,58.5
50	506.3	507.9	489.3	490.0	461.3	467.6	457.6	453.1	40- 50	5250	24633	74.3,74.3
60	307.9	308.4	305.2	306.3	282.1	288.2	284.5	284.1	50- 60	3433	28066	84.7,84.7
70	130.1	127.4	129.7	125.2	107.5	116.6	118.4	116.5	60- 70	2044	30110	90.8,90.8
80	46.46	48.92	48.47	45.93	40.96	42.47	45.36	44.63	70- 80	809.1	30919	93.3,93.3
90	19.82	20.00	20.53	20.10	19.70	19.88	20.53	20.34	80- 90	320.3	31239	94.2,94.2
100	25.06	24.78	24.54	24.52	25.36	25.27	26.02	26.09	90-100	231.8	31471	94.9,94.9
110	28.84	28.60	27.17	27.97	27.84	28.26	28.48	29.71	100-110	285.8	31757	95.8,95.8
120	29.51	31.48	28.16	29.75	27.78	30.28	28.84	31.16	110-120	289.5	32046	96.7,96.7
130	31.75	35.29	31.82	32.28	30.55	31.72	30.65	32.08	120-130	273.7	32320	97.5,97.5
140	34.05	37.84	34.59	35.89	33.81	35.80	34.90	36.89	130-140	258.3	32578	98.3,98.3
150	41.33	42.45	40.75	43.09	41.14	41.47	42.77	44.41	140-150	243.2	32822	99,99
160	42.98	38.91	42.51	37.76	40.55	36.22	41.23	37.86	150-160	194.0	33016	99.6,99.6
170	34.47	29.29	33.92	28.66	31.52	28.24	30.50	27.85	160-170	100.8	33116	99.9,99.9
180	37.48	34.24	37.32	32.80	37.45	34.18	37.52	32.36	170-180	29.42	33146	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 22345 lm

%lum = 67.4%

%lamp = 67.4%

Conical surface Flux(120deg): 28066 lm

%lum = 84.7%

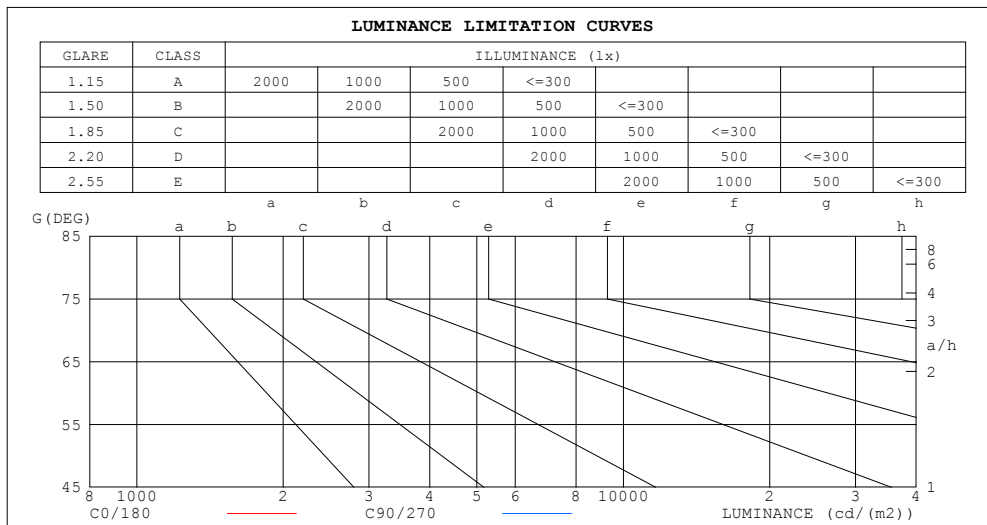
%lamp = 84.7%

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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-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	49563	51850
80	40541	42293
75	45010	45813
70	57628	57444
65	78143	77269
60	93297	92485
55	105402	104178
50	119350	115338
45	152653	146922

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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-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	.253 .144 .046	.244 .139 .044	.228 .131 .042	.213 .123 .039	.199 .116 .037	
2.0	.242 .132 .041	.234 .129 .040	.220 .122 .038	.207 .116 .036	.194 .110 .035	
3.0	.228 .121 .036	.221 .118 .036	.208 .113 .034	.197 .108 .033	.186 .103 .032	
4.0	.214 .111 .033	.208 .109 .032	.196 .104 .031	.186 .100 .030	.176 .096 .029	
5.0	.200 .102 .030	.195 .100 .029	.185 .096 .028	.176 .093 .028	.167 .089 .027	
6.0	.188 .094 .027	.184 .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	.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	.079 .079 .079	.025 .025 .025	
1.0	.221 .201 .183	.189 .172 .158	.129 .119 .109	.074 .069 .063	.024 .022 .020	
2.0	.210 .177 .149	.180 .152 .128	.123 .105 .090	.071 .061 .053	.023 .020 .017	
3.0	.201 .159 .125	.172 .137 .108	.118 .095 .076	.068 .056 .045	.022 .018 .015	
4.0	.193 .145 .109	.166 .125 .094	.114 .087 .066	.066 .051 .039	.021 .017 .013	
5.0	.186 .134 .097	.159 .116 .084	.110 .081 .059	.064 .048 .035	.021 .016 .012	
6.0	.179 .126 .088	.154 .109 .077	.106 .076 .054	.062 .045 .032	.020 .015 .011	
7.0	.173 .119 .081	.148 .103 .071	.103 .072 .050	.060 .043 .030	.019 .014 .010	
8.0	.167 .113 .076	.144 .098 .067	.099 .069 .047	.058 .041 .028	.019 .013 .009	
9.0	.161 .108 .073	.139 .094 .063	.096 .066 .045	.056 .039 .027	.018 .013 .009	
10.0	.156 .104 .069	.135 .090 .061	.093 .064 .043	.054 .038 .026	.018 .012 .009	

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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm										
NAME: H17XL-RPC-RDL-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	28.2	29.5	28.6	29.8	30.1	28.1	29.4	28.5	29.7	30.0
3H	28.8	29.9	29.1	30.2	30.6	28.7	29.9	29.1	30.2	30.5
4H	28.9	30.0	29.3	30.3	30.7	28.8	29.9	29.2	30.3	30.6
6H	29.0	30.0	29.4	30.4	30.7	28.9	30.0	29.3	30.3	30.7
8H	29.0	30.0	29.4	30.4	30.8	29.0	29.9	29.4	30.3	30.7
12H	29.0	30.0	29.5	30.4	30.8	29.0	29.9	29.4	30.3	30.7
4H 2H	28.5	29.5	28.8	29.9	30.2	28.4	29.5	28.8	29.8	30.2
3H	29.1	30.1	29.6	30.4	30.9	29.1	30.0	29.5	30.4	30.8
4H	29.3	30.2	29.8	30.6	31.0	29.3	30.1	29.7	30.5	31.0
6H	29.5	30.2	30.0	30.7	31.2	29.5	30.2	29.9	30.7	31.1
8H	29.6	30.2	30.1	30.7	31.2	29.5	30.2	30.0	30.7	31.2
12H	29.6	30.3	30.1	30.7	31.3	29.6	30.3	30.1	30.7	31.3
8H 4H	29.3	30.0	29.8	30.5	31.0	29.3	30.0	29.8	30.5	31.0
6H	29.6	30.2	30.1	30.7	31.2	29.6	30.1	30.1	30.6	31.2
8H	29.7	30.2	30.3	30.8	31.3	29.7	30.2	30.3	30.7	31.3
12H	29.9	30.3	30.4	30.9	31.4	29.9	30.3	30.5	30.9	31.5
12H 4H	29.3	30.0	29.8	30.4	31.0	29.3	29.9	29.8	30.4	30.9
6H	29.6	30.1	30.1	30.6	31.2	29.6	30.1	30.1	30.6	31.2
8H	29.8	30.2	30.3	30.7	31.3	29.8	30.2	30.3	30.7	31.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.8				
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.6				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 33146 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.2$)

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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

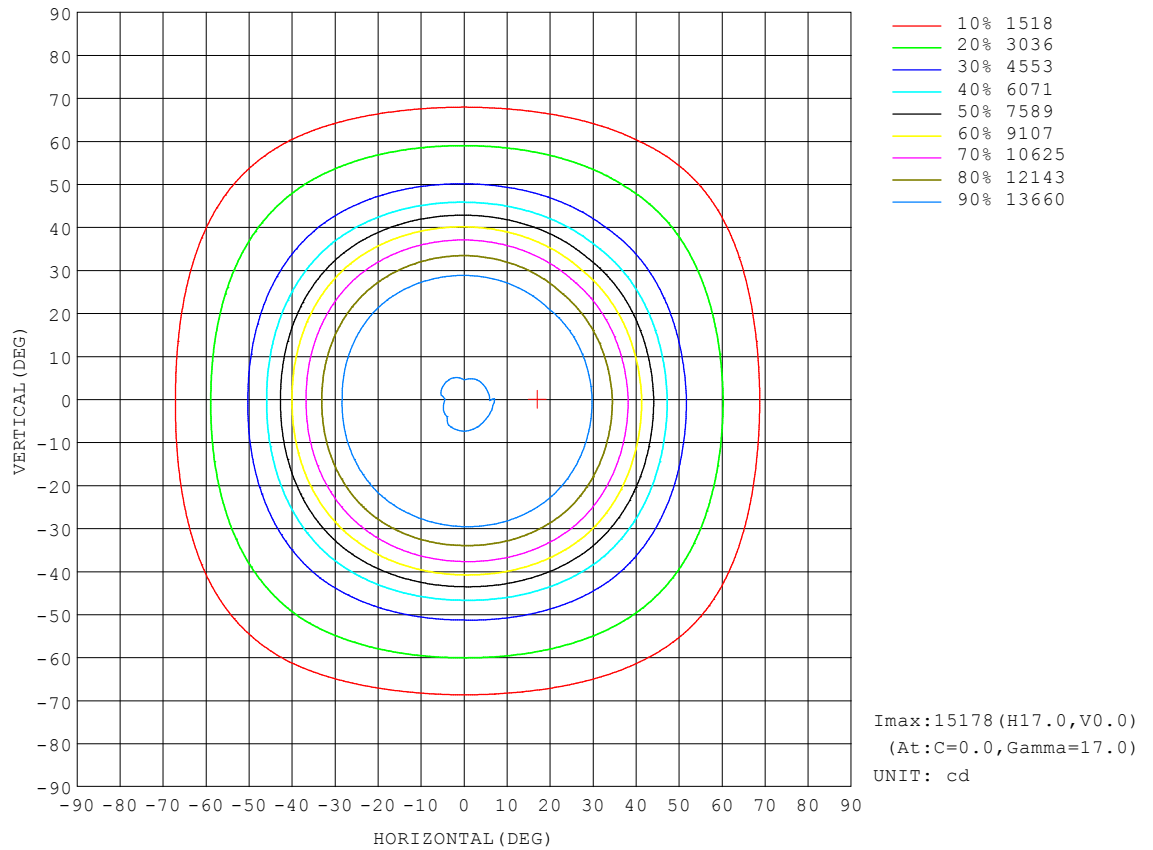
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	63	55	49	44
0.80	75	65	59	74	65	59	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	78	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	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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

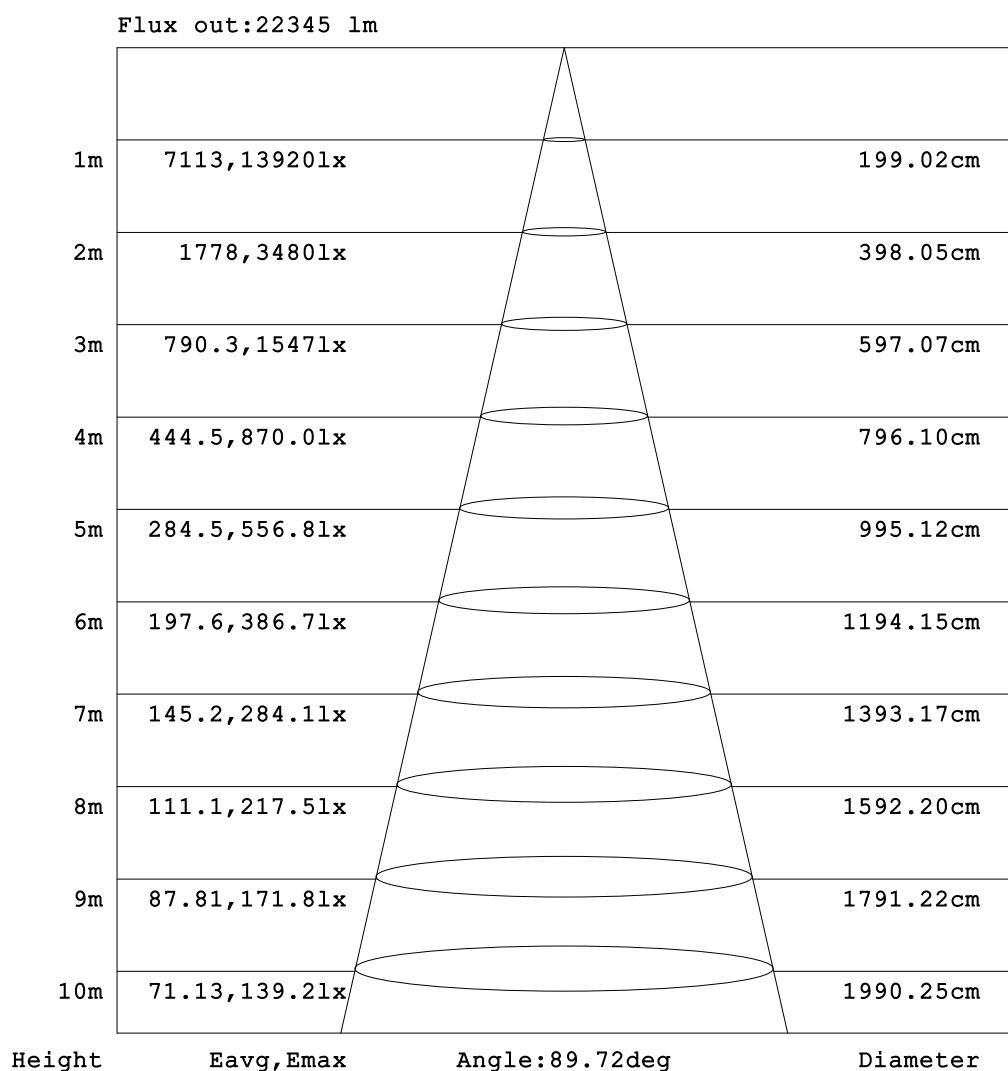


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-240W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

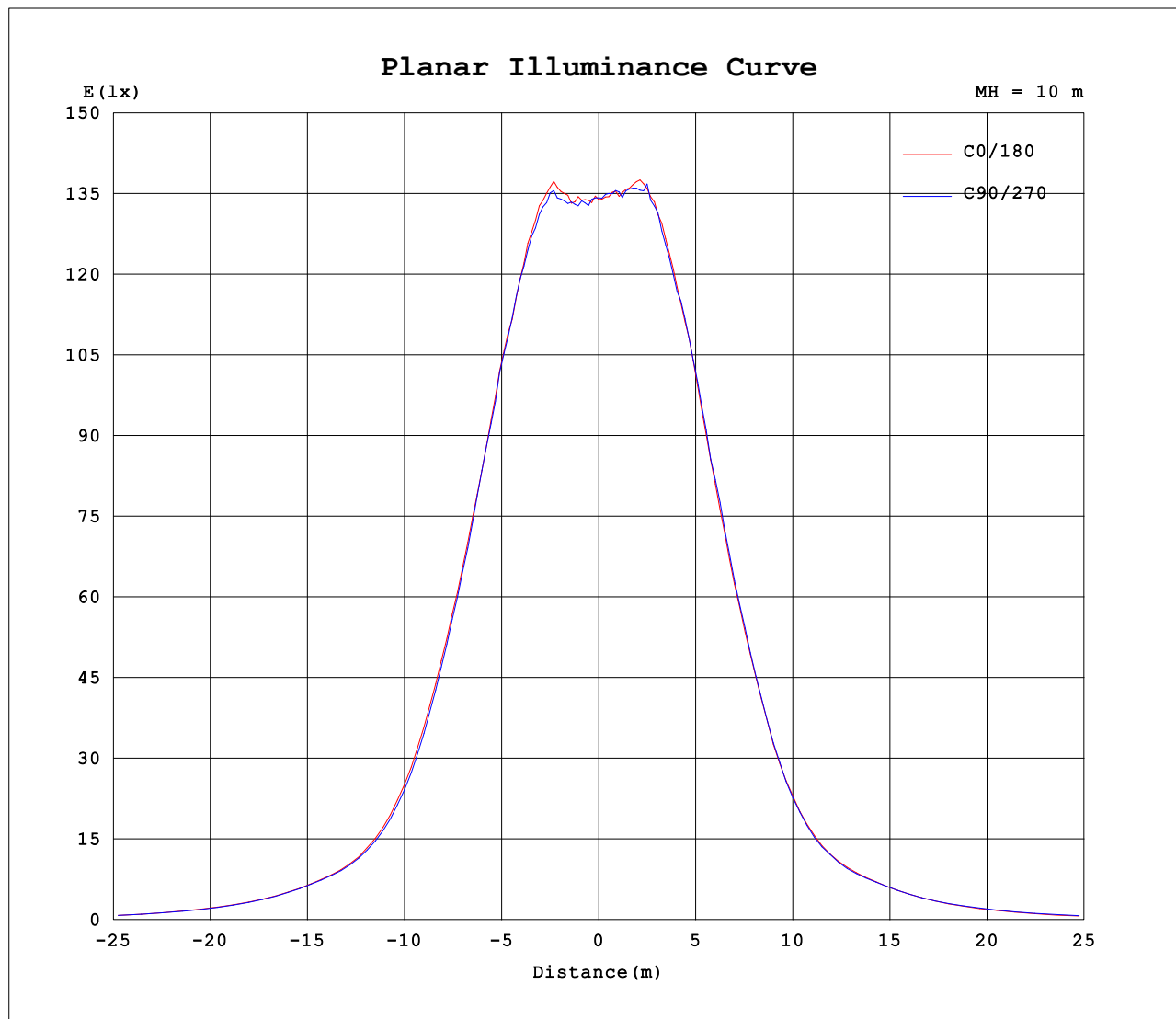


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

☐ 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:120.3V I:1.900A P:228.0W PF:0.9975 Freq:59.97Hz Lamp Flux:33145.8x1 lm		
NAME: H17XL-RPC-RDL-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	1339	1341	1342	1343	1339	1341	1342	1343										
5	1353	1352	1352	1362	1370	1348	1372	1357										
10	1414	1408	1400	1409	1431	1429	1424	1439										
15	1499	1478	1479	1489	1492	1495	1484	1513										
20	1516	1500	1501	1495	1492	1488	1483	1494										
25	1466	1470	1457	1458	1452	1458	1451	1449										
30	1359	1367	1358	1341	1316	1328	1319	1327										
35	1195	1201	1180	1163	1134	1153	1148	1140										
40	977	983	952	938	911	924	916	895										
45	712	715	686	674	653	659	642	634										
50	506	508	489	490	461	468	458	453										
55	399	408	394	396	375	378	373	372										
60	308	308	305	306	282	288	284	284										
65	218	217	216	216	191	199	201	198										
70	130	127	130	125	108	117	118	116										
75	76.9	78.9	78.3	75.0	66.4	70.4	73.1	72.4										
80	46.5	48.9	48.5	45.9	41.0	42.5	45.4	44.6										
85	28.5	29.3	29.8	28.6	25.6	26.3	28.1	27.4										
90	19.8	20.0	20.5	20.1	19.7	19.9	20.5	20.3										
95	20.2	19.9	19.9	19.7	20.2	20.4	20.8	20.5										
100	25.1	24.8	24.5	24.5	25.4	25.3	26.0	26.1										
105	27.6	26.9	26.5	26.3	27.0	26.9	27.8	27.8										
110	28.8	28.6	27.2	28.0	27.8	28.3	28.5	29.7										
115	29.4	30.1	27.4	29.1	27.7	29.6	28.8	31.1										
120	29.5	31.5	28.2	29.7	27.8	30.3	28.8	31.2										
125	30.2	32.9	29.8	30.1	28.7	30.6	29.5	31.2										
130	31.7	35.3	31.8	32.3	30.5	31.7	30.7	32.1										
135	32.4	36.1	32.7	33.9	31.8	33.0	32.0	33.5										
140	34.1	37.8	34.6	35.9	33.8	35.8	34.9	36.9										
145	37.4	40.0	37.3	39.7	37.6	38.6	38.9	40.9										
150	41.3	42.5	40.7	43.1	41.1	41.5	42.8	44.4										
155	43.0	42.3	42.4	42.0	41.5	40.6	43.5	42.6										
160	43.0	38.9	42.5	37.8	40.6	36.2	41.2	37.9										
165	40.0	33.6	38.6	32.4	36.0	31.3	35.8	31.7										
170	34.5	29.3	33.9	28.7	31.5	28.2	30.5	27.8										
175	34.3	31.5	33.2	29.5	33.3	30.8	31.4	31.5										
180	37.5	34.2	37.3	32.8	37.4	34.2	37.5	32.4										

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: