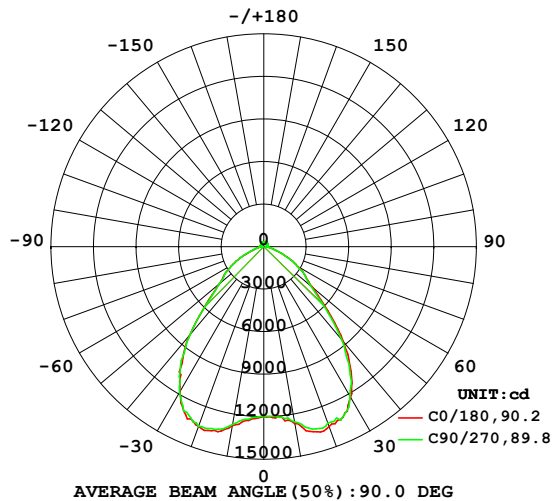


LUMINAIRE PHOTOMETRIC TEST REPORT

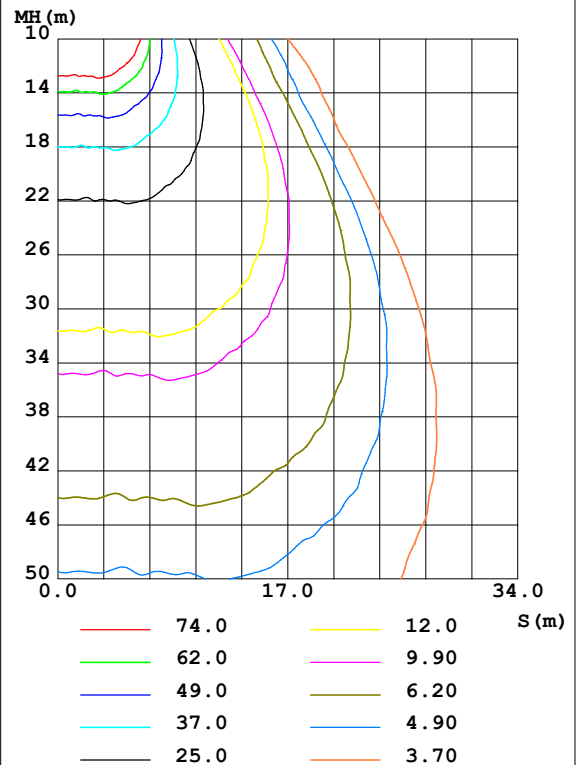
Test:U:120.3V I:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.17 lm/W			
MODEL		I _{max} (cd)	13683	S/MH(C0/180)	1.27
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	29664	□ UP,DN(C0-180)	2.9,48.1
NOMINAL FLUX(lm)	29663.6	CIE CLASS	DIRECT	□ UP,DN(C180-360)	2.9,46.1
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	1267	1265	1254	1254	1281	1286	1271	1274	0- 10	1176	1176	3.97,3.97
20	1351	1330	1325	1335	1349	1348	1349	1347	10- 20	3777	4954	16.7,16.7
30	1224	1232	1217	1202	1184	1184	1189	1177	20- 30	5975	10929	36.8,36.8
40	873.0	872.1	855.7	846.5	807.7	824.0	810.4	802.8	30- 40	6447	17376	58.6,58.6
50	451.3	452.1	433.3	436.6	414.3	418.2	410.4	409.2	40- 50	4693	22069	74.4,74.4
60	275.5	276.2	273.2	276.1	252.6	256.8	249.4	252.6	50- 60	3069	25138	84.7,84.7
70	115.6	113.4	115.8	114.2	97.35	102.6	102.0	101.3	60- 70	1823	26961	90.9,90.9
80	41.65	43.43	43.24	41.50	36.49	37.73	39.13	38.46	70- 80	718.6	27680	93.3,93.3
90	17.52	17.71	18.34	17.93	17.59	17.56	18.00	17.91	80- 90	283.0	27963	94.3,94.3
100	22.36	22.28	21.92	21.80	22.93	22.56	22.92	23.08	90-100	206.4	28169	95,95
110	25.68	25.52	24.45	25.04	24.93	25.14	25.14	26.15	100-110	254.2	28423	95.8,95.8
120	26.25	28.17	25.34	26.70	24.87	26.90	25.36	27.23	110-120	257.4	28681	96.7,96.7
130	28.29	31.89	28.61	29.13	27.24	28.08	26.84	27.96	120-130	243.5	28924	97.5,97.5
140	30.34	34.09	31.47	32.07	30.72	32.25	30.56	32.34	130-140	230.3	29154	98.3,98.3
150	37.18	38.46	36.91	38.61	37.67	38.01	37.59	39.67	140-150	218.5	29373	99,99
160	38.39	34.90	38.10	33.76	36.52	32.60	36.97	33.70	150-160	174.3	29547	99.6,99.6
170	31.03	26.11	29.59	25.20	27.95	25.04	27.72	25.20	160-170	90.06	29637	99.9,99.9
180	33.58	30.27	33.47	29.14	33.58	30.15	33.71	29.15	170-180	26.22	29664	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 20026 lm

%lum = 67.5%

%lamp = 67.5%

Conical surface Flux(120deg): 25138 lm

%lum = 84.7%

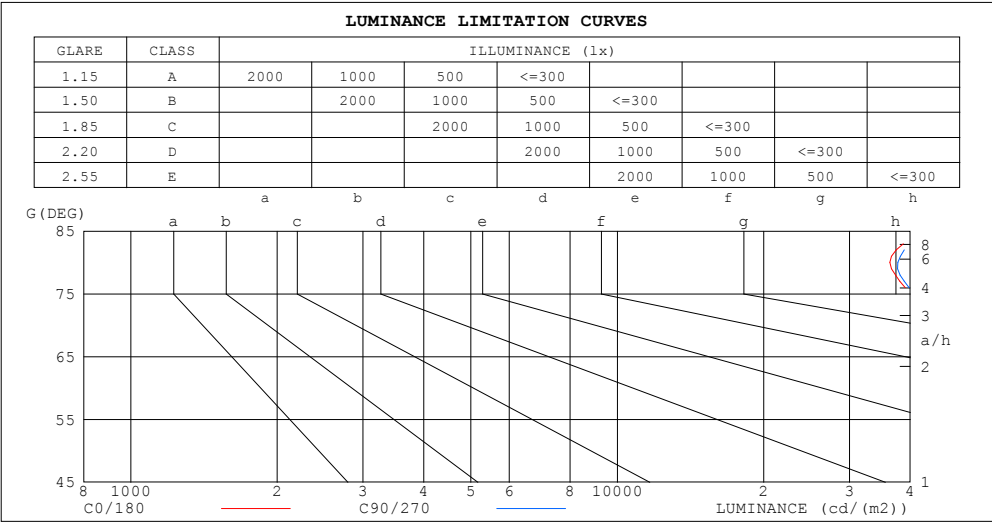
%lamp = 84.7%

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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-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	44299	45977
80	36339	37730
75	40142	40969
70	51216	51292
65	69882	69297
60	83499	82802
55	94828	93735
50	106380	102142
45	137119	131975

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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-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	.253 .144 .046	.244 .139 .044	.228 .131 .042	.213 .123 .039	.199 .115 .037	
2.0	.241 .132 .041	.234 .129 .040	.220 .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	.137 .137 .137	.078 .078 .078	.025 .025 .025	
1.0	.220 .201 .183	.189 .172 .157	.129 .118 .109	.074 .069 .063	.024 .022 .020	
2.0	.210 .176 .148	.180 .152 .128	.123 .105 .090	.071 .061 .052	.023 .020 .017	
3.0	.201 .159 .125	.172 .137 .108	.118 .095 .076	.068 .056 .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 .097	.159 .116 .084	.110 .081 .059	.064 .048 .035	.020 .016 .012	
6.0	.179 .126 .088	.154 .109 .077	.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 .067	.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	.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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm											
NAME: H17XL-RPC-RDL-240W-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	27.8	29.1	28.2	29.4	29.7	27.8	29.0	28.1	29.3	29.6	
	28.4	29.5	28.8	29.9	30.2	28.3	29.5	28.7	29.8	30.1	
	28.5	29.6	28.9	29.9	30.3	28.5	29.5	28.8	29.9	30.2	
	28.6	29.6	29.0	30.0	30.4	28.6	29.6	29.0	29.9	30.3	
	28.6	29.6	29.0	30.0	30.4	28.6	29.6	29.0	29.9	30.3	
	28.7	29.6	29.1	30.0	30.4	28.6	29.6	29.1	29.9	30.4	
4H	2H	28.1	29.2	28.5	29.5	29.9	28.0	29.1	28.4	29.4	29.8
	3H	28.7	29.7	29.2	30.1	30.5	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	29.9	29.6	30.3	30.8	29.1	29.8	29.6	30.3	30.7
	8H	29.2	29.9	29.7	30.3	30.8	29.2	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	29.0	29.7	29.5	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	29.8	29.7	30.3	30.8
	8H	29.3	29.8	29.9	30.4	30.9	29.3	29.8	29.9	30.4	30.9
	12H	29.5	29.9	30.1	30.5	31.1	29.5	29.9	30.1	30.5	31.1
12H	4H	28.9	29.6	29.4	30.0	30.6	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	29.4	29.8	29.9	30.3	30.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7					
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.6					
2.0H	+ 0.9 / - 0.6					+ 0.9 / - 0.6					

CIE Pub.117, 29664 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.8$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.3V I:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

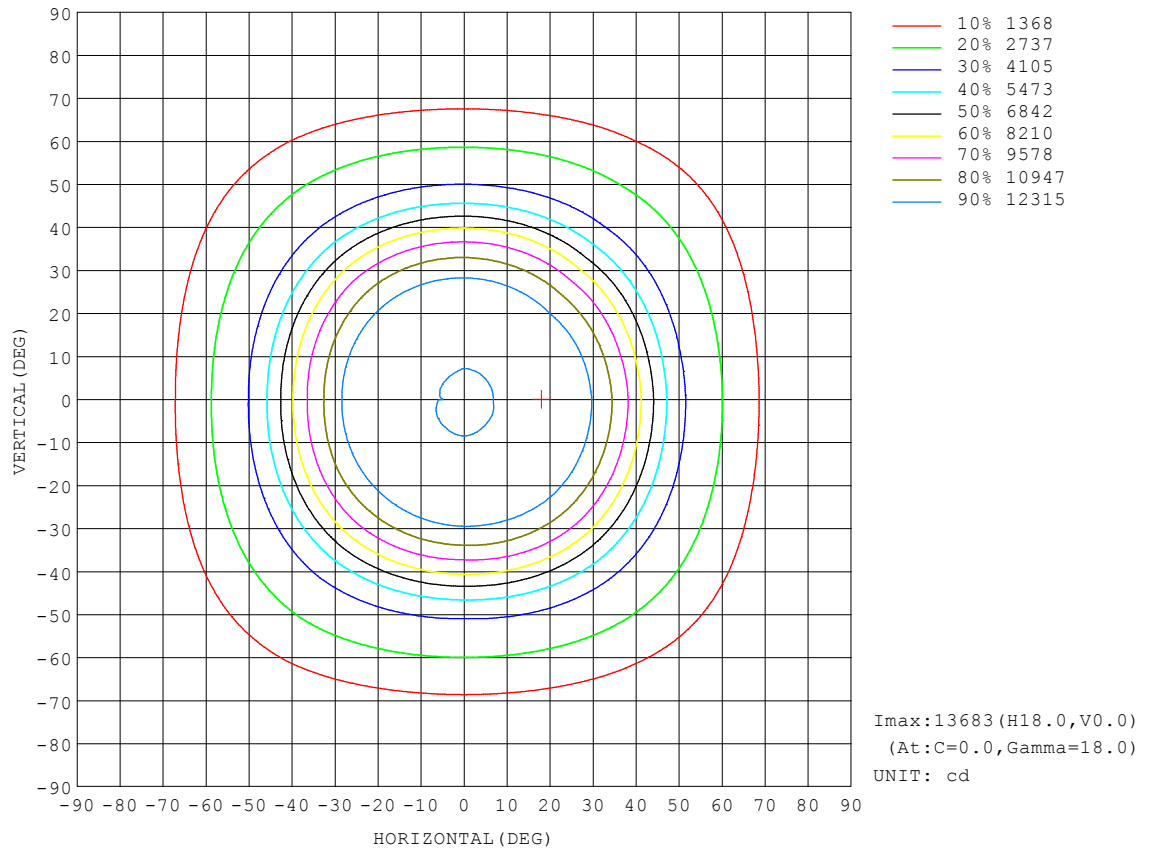
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	63	55	49	44
0.80	75	65	59	74	65	59	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	76
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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

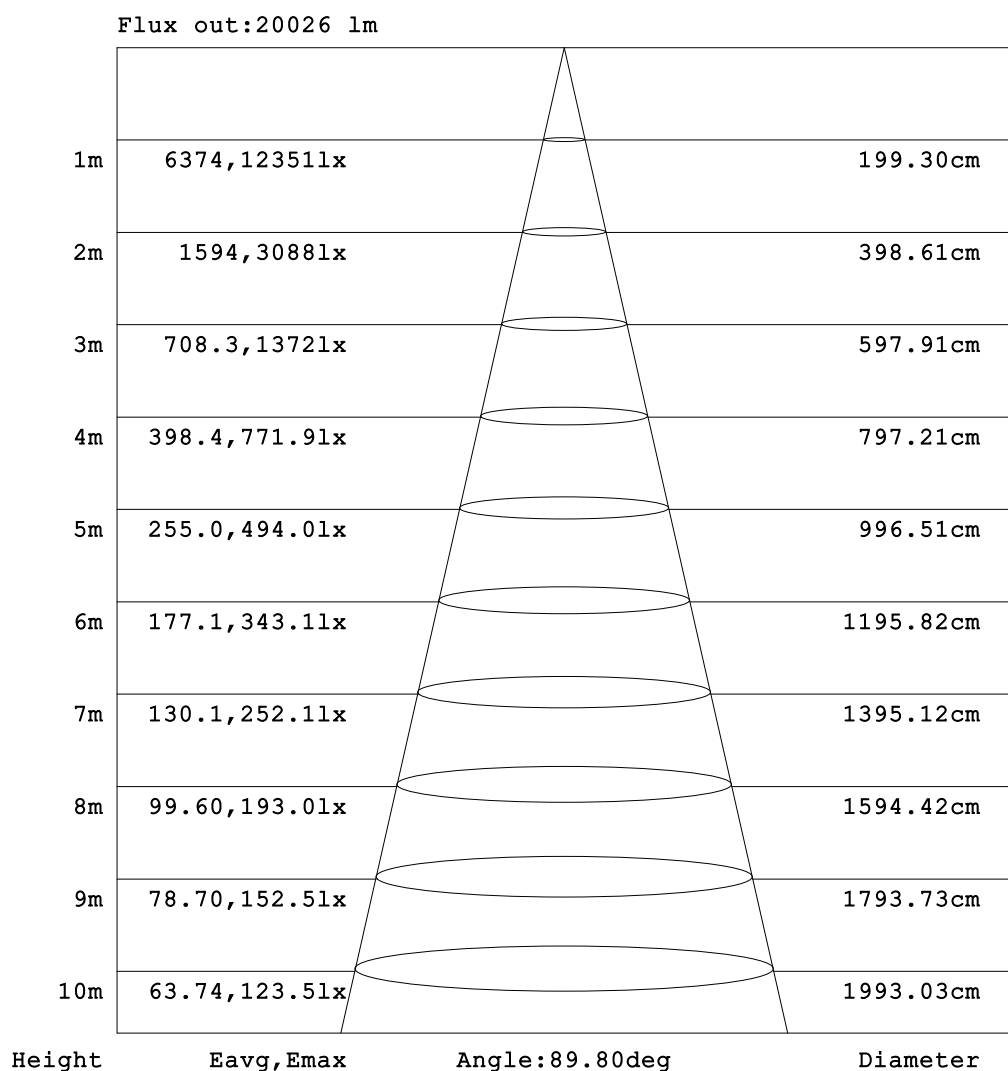


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Marvin Ma
 Test Date:2022-09-01

☐ 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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

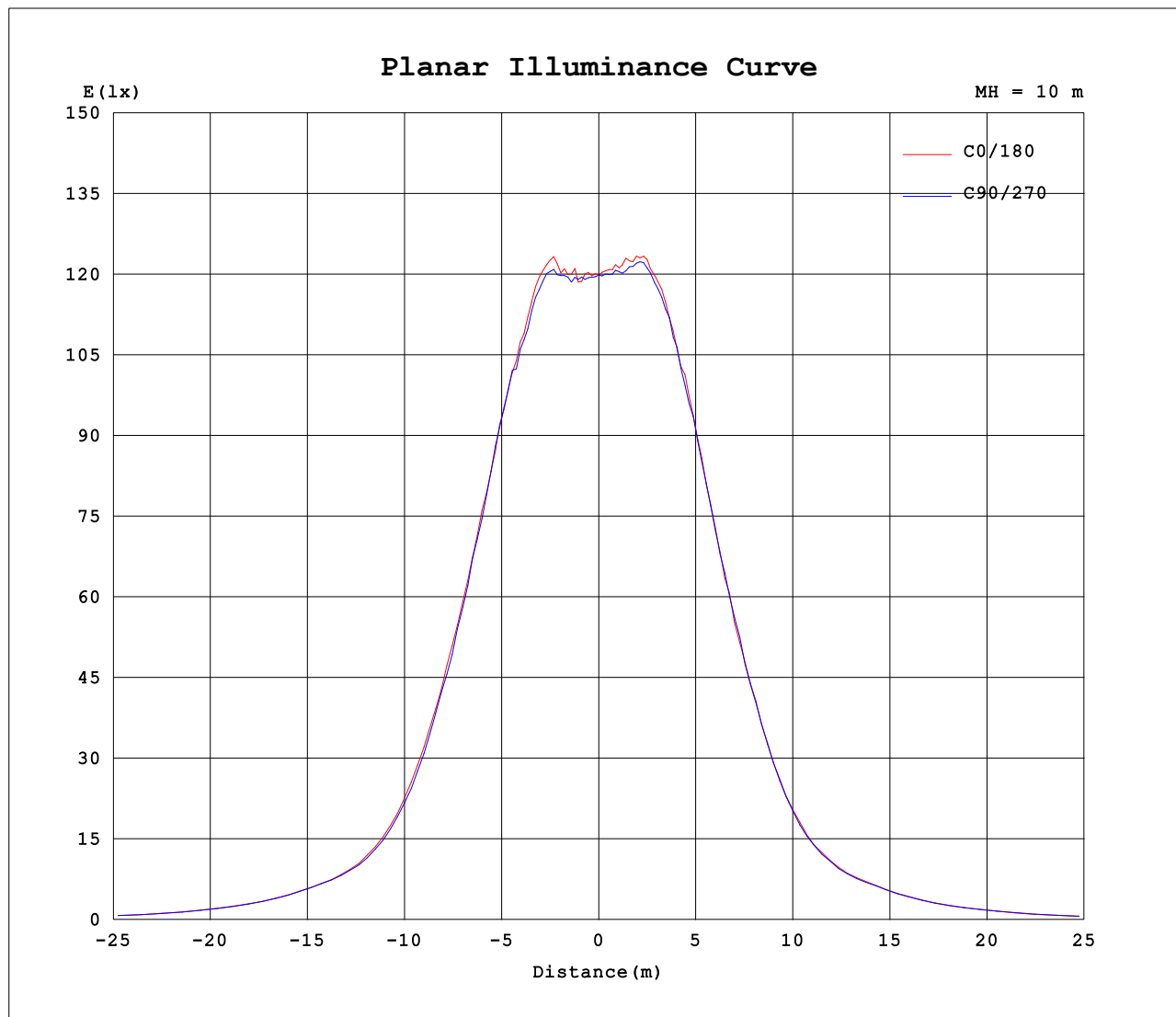


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

☐ 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:1.974A P:237.0W PF:0.9976 Freq:59.98Hz Lamp Flux:29663.6x1 lm		
NAME: H17XL-RPC-RDL-240W-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	1198	1197	1199	1196	1198	1197	1199	1196										
5	1200	1212	1209	1216	1232	1224	1221	1209										
10	1267	1265	1254	1254	1281	1286	1271	1274										
15	1351	1345	1333	1324	1342	1353	1334	1351										
20	1351	1330	1325	1335	1349	1348	1349	1347										
25	1325	1307	1322	1300	1307	1311	1288	1303										
30	1224	1232	1217	1202	1184	1184	1189	1177										
35	1077	1068	1057	1050	1005	1030	1023	1014										
40	873	872	856	847	808	824	810	803										
45	640	641	616	612	580	581	573	568										
50	451	452	433	437	414	418	410	409										
55	359	369	355	357	337	338	334	334										
60	276	276	273	276	253	257	249	253										
65	195	195	193	195	172	176	175	174										
70	116	113	116	114	97.4	103	102	101										
75	68.6	70.4	70.0	67.9	59.6	62.2	63.1	63.0										
80	41.6	43.4	43.2	41.5	36.5	37.7	39.1	38.5										
85	25.5	26.0	26.4	25.8	22.6	23.2	24.1	23.4										
90	17.5	17.7	18.3	17.9	17.6	17.6	18.0	17.9										
95	17.8	17.8	17.7	17.6	18.3	17.9	18.3	18.2										
100	22.4	22.3	21.9	21.8	22.9	22.6	22.9	23.1										
105	24.4	24.0	23.7	23.6	24.2	23.9	24.4	24.5										
110	25.7	25.5	24.5	25.0	24.9	25.1	25.1	26.1										
115	26.1	26.9	24.7	26.1	24.8	26.3	25.2	27.2										
120	26.3	28.2	25.3	26.7	24.9	26.9	25.4	27.2										
125	26.9	29.5	26.7	27.1	25.7	27.1	25.9	27.2										
130	28.3	31.9	28.6	29.1	27.2	28.1	26.8	28.0										
135	28.8	32.5	29.6	30.3	28.7	29.4	28.0	29.3										
140	30.3	34.1	31.5	32.1	30.7	32.2	30.6	32.3										
145	33.5	36.1	33.9	35.4	34.5	35.2	33.9	36.3										
150	37.2	38.5	36.9	38.6	37.7	38.0	37.6	39.7										
155	38.4	38.2	38.0	37.7	37.9	36.9	38.6	37.9										
160	38.4	34.9	38.1	33.8	36.5	32.6	37.0	33.7										
165	35.5	30.1	33.9	28.9	31.9	28.0	32.6	28.9										
170	31.0	26.1	29.6	25.2	28.0	25.0	27.7	25.2										
175	30.7	28.0	29.6	26.0	29.7	27.2	28.1	27.7										
180	33.6	30.3	33.5	29.1	33.6	30.1	33.7	29.2										

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: