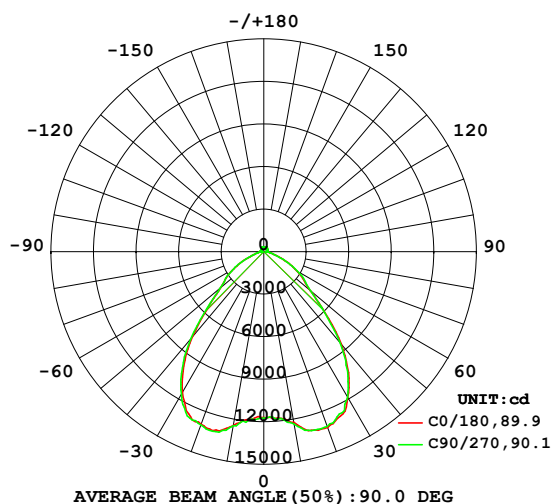


LUMINAIRE PHOTOMETRIC TEST REPORT

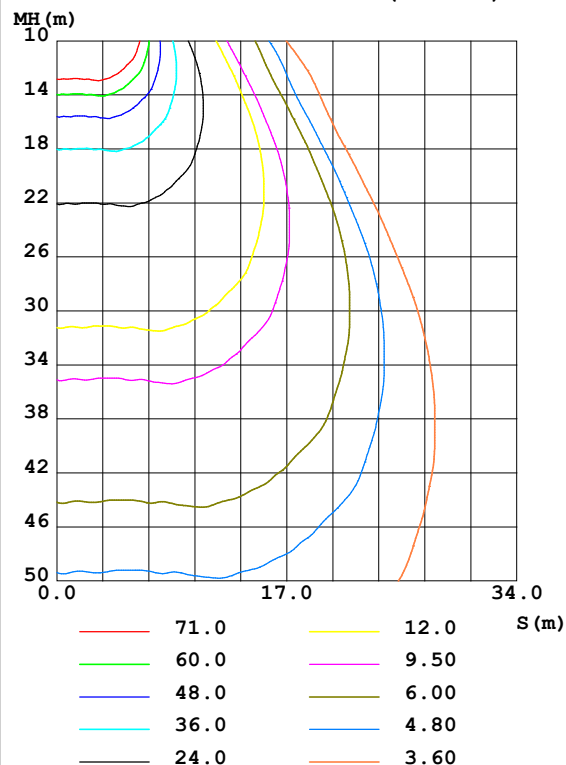
Test:U:120.4V I:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.36 lm/W			
MODEL		I _{max} (cd)	13299	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)	28952	□ UP,DN(C0-180)	2.9,48.2
NOMINAL FLUX(lm)	28952	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	1223	1240	1234	1228	1245	1248	1247	1251	0- 10	1149	1149	3.97,3.97
20	1320	1327	1312	1308	1296	1304	1299	1295	10- 20	3679	4828	16.7,16.7
30	1186	1192	1185	1177	1146	1166	1161	1152	20- 30	5817	10645	36.8,36.8
40	850.3	853.3	836.3	822.0	785.4	807.4	803.0	787.2	30- 40	6293	16939	58.5,58.5
50	432.7	443.6	431.5	426.6	398.9	410.8	405.0	397.1	40- 50	4590	21529	74.4,74.4
60	266.4	273.2	272.4	266.5	247.4	252.7	247.3	243.6	50- 60	3002	24531	84.7,84.7
70	116.2	112.3	113.0	112.4	96.37	99.01	99.16	97.94	60- 70	1786	26317	90.9,90.9
80	42.97	41.26	41.87	42.52	36.10	36.38	37.21	38.20	70- 80	705.8	27023	93.3,93.3
90	17.35	17.07	17.87	17.92	17.21	17.04	17.45	17.68	80- 90	278.4	27301	94.3,94.3
100	21.77	21.82	21.50	21.21	22.27	22.11	22.38	22.45	90-100	201.5	27503	95,95
110	25.12	25.26	23.90	24.23	24.16	24.72	24.32	25.31	100-110	248.2	27751	95.9,95.9
120	25.33	27.42	24.98	26.40	24.17	25.60	24.51	26.80	110-120	250.7	28002	96.7,96.7
130	27.24	30.41	27.83	28.48	26.49	26.40	25.76	27.67	120-130	236.6	28238	97.5,97.5
140	29.42	32.64	30.17	31.20	30.02	30.32	29.32	32.03	130-140	222.3	28460	98.3,98.3
150	35.84	37.50	35.70	37.27	36.53	36.60	36.07	37.63	140-150	210.9	28671	99,99
160	36.89	33.41	36.71	32.94	35.05	31.90	35.76	32.52	150-160	168.1	28839	99.6,99.6
170	29.72	24.95	28.94	24.63	27.13	24.63	26.66	24.29	160-170	87.11	28927	99.9,99.9
180	32.03	28.39	32.59	28.01	31.98	28.32	32.70	28.10	170-180	25.37	28952	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 19528 lm

%lum = 67.4%

%lamp = 67.4%

Conical surface Flux(120deg): 24531 lm

%lum = 84.7%

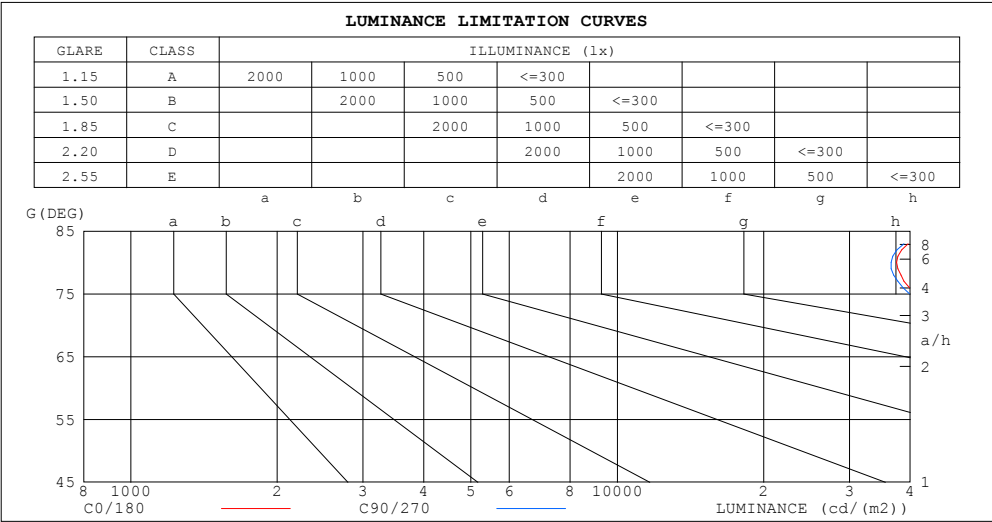
%lamp = 84.7%

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:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-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	44954	44585
80	37492	36531
75	41012	39866
70	51490	50044
65	68763	68276
60	80742	82551
55	90869	92581
50	101994	101723
45	131748	130049

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:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-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 .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 .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	.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	.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	.063 .048 .035	.020 .016 .012	
6.0	.179 .126 .088	.153 .109 .076	.106 .076 .054	.061 .045 .032	.020 .015 .011	
7.0	.172 .119 .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 .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 .037 .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:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm										
NAME: H17XL-RPC-RDL-200W-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	27.7	29.0	28.1	29.3	29.6	27.7	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	29.5	28.8	29.9	30.2	28.4	29.5	28.8	29.9	30.2
6H	28.5	29.6	28.9	29.9	30.3	28.5	29.5	28.9	29.9	30.3
8H	28.6	29.6	29.0	29.9	30.3	28.5	29.5	29.0	29.9	30.3
12H	28.6	29.6	29.0	29.9	30.3	28.6	29.5	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	29.7	29.3	30.2	30.6	28.9	29.7	29.3	30.1	30.6
6H	29.1	29.8	29.5	30.3	30.7	29.0	29.8	29.5	30.2	30.7
8H	29.1	29.8	29.6	30.3	30.8	29.1	29.8	29.6	30.3	30.8
12H	29.2	29.9	29.7	30.3	30.9	29.2	29.8	29.7	30.3	30.8
8H 4H	28.9	29.6	29.4	30.1	30.6	28.9	29.6	29.4	30.0	30.5
6H	29.2	29.7	29.7	30.2	30.8	29.1	29.7	29.7	30.2	30.7
8H	29.3	29.8	29.9	30.3	30.9	29.3	29.8	29.8	30.3	30.9
12H	29.5	29.9	30.0	30.4	31.0	29.4	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	29.7	30.2	30.8	29.1	29.6	29.7	30.2	30.7
8H	29.3	29.8	29.9	30.3	30.9	29.3	29.7	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					+ 0.6 / - 0.6				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 28952 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:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

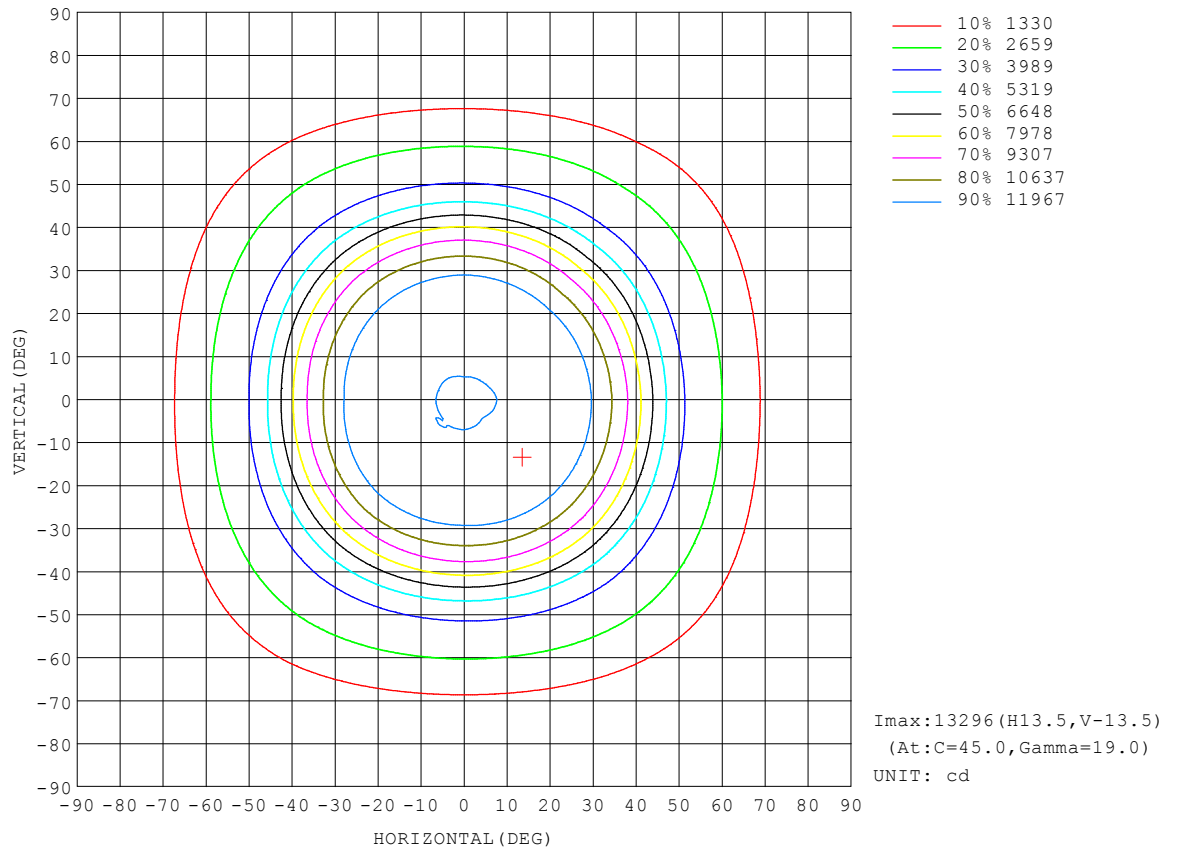
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	63	55	49	44
0.80	75	65	59	74	65	59	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:120.4V I:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

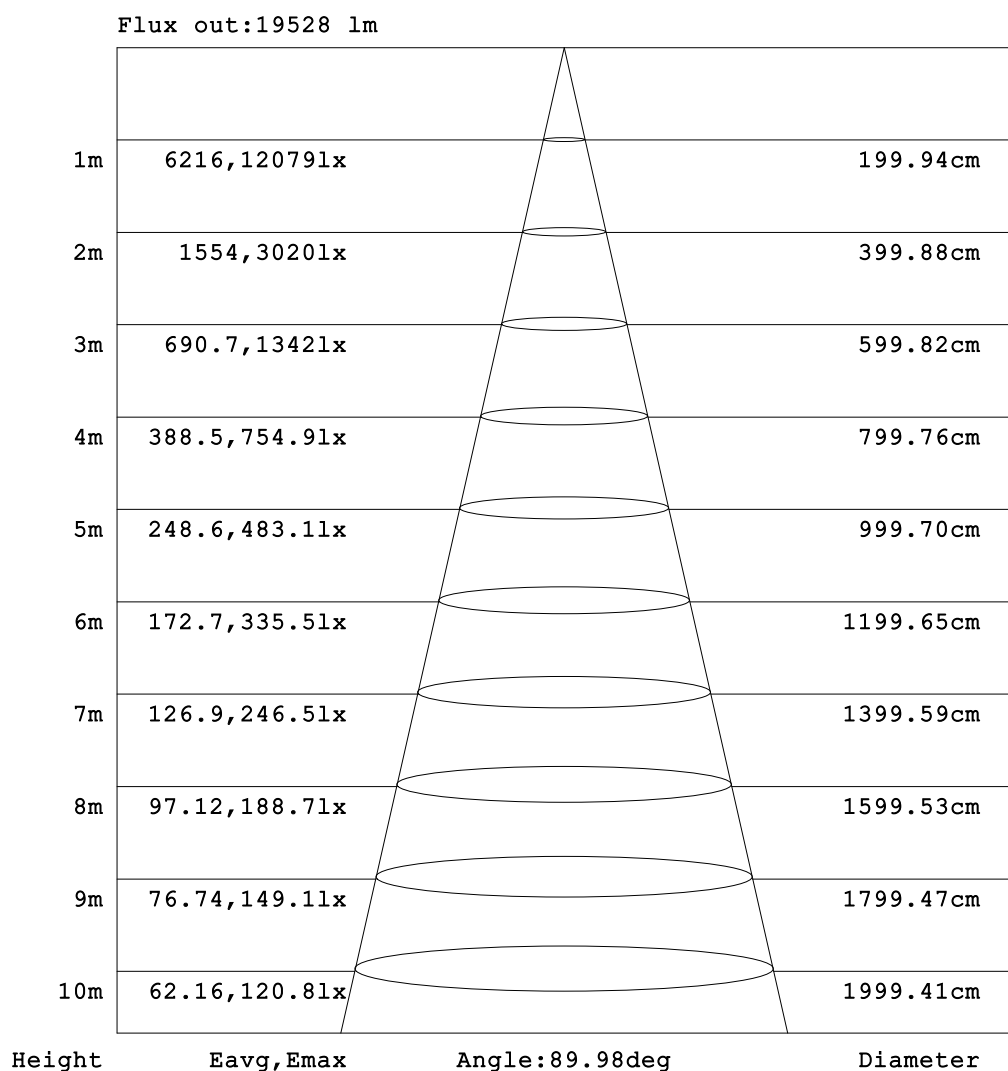


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.4V I:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm		
NAME: H17XL-RPC-RDL-200W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.29*0.29m	Shielding Angle:

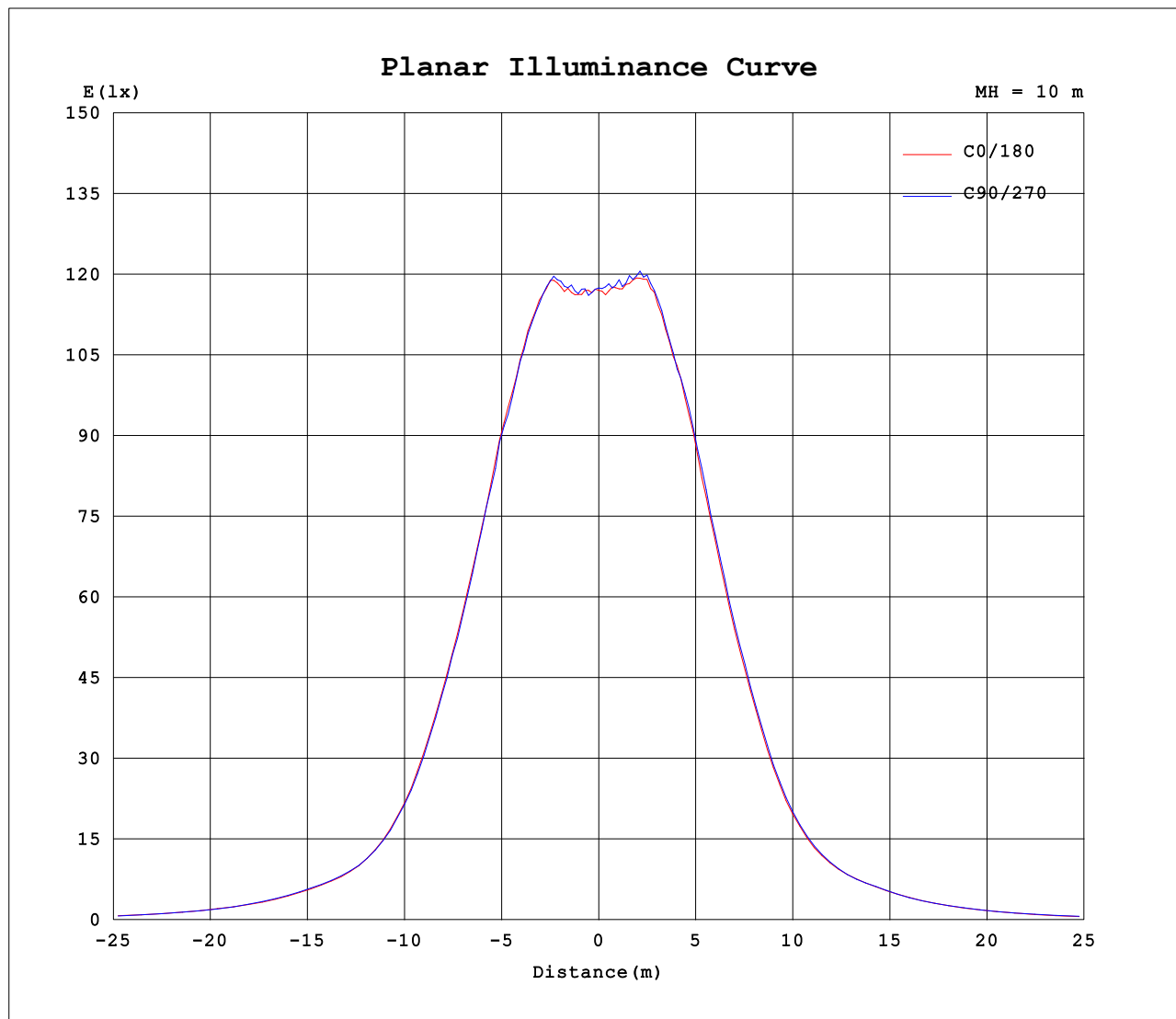


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.4V I:1.624A P:195.1W PF:0.9979 Freq:59.97Hz Lamp Flux:28952x1 lm								
NAME: H17XL-RPC-RDL-200W-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	1170	1173	1175	1175	1170	1173	1175	1175										
5	1176	1186	1186	1184	1189	1180	1193	1187										
10	1223	1240	1234	1228	1245	1248	1247	1251										
15	1303	1308	1307	1295	1302	1313	1313	1305										
20	1320	1327	1312	1308	1296	1304	1299	1295										
25	1281	1291	1263	1278	1259	1272	1277	1265										
30	1186	1192	1185	1177	1146	1166	1161	1152										
35	1042	1046	1031	1025	983	1009	1002	998										
40	850	853	836	822	785	807	803	787										
45	615	623	607	595	557	575	569	556										
50	433	444	432	427	399	411	405	397										
55	344	360	350	344	326	333	328	323										
60	266	273	272	267	247	253	247	244										
65	192	193	190	190	170	173	172	169										
70	116	112	113	112	96.4	99.0	99.2	97.9										
75	70.1	68.2	68.1	68.6	59.3	59.7	60.3	60.9										
80	43.0	41.3	41.9	42.5	36.1	36.4	37.2	38.2										
85	25.9	24.6	25.6	26.4	22.4	22.5	23.2	23.4										
90	17.4	17.1	17.9	17.9	17.2	17.0	17.5	17.7										
95	17.3	17.3	17.4	17.3	17.7	17.6	17.8	17.7										
100	21.8	21.8	21.5	21.2	22.3	22.1	22.4	22.5										
105	23.9	23.6	23.2	23.0	23.6	23.5	23.7	23.9										
110	25.1	25.3	23.9	24.2	24.2	24.7	24.3	25.3										
115	25.5	26.5	24.2	25.4	24.0	25.4	24.4	26.4										
120	25.3	27.4	25.0	26.4	24.2	25.6	24.5	26.8										
125	25.9	28.5	26.3	26.8	25.1	25.7	25.0	27.0										
130	27.2	30.4	27.8	28.5	26.5	26.4	25.8	27.7										
135	27.8	30.9	28.6	29.6	27.8	27.7	26.9	29.0										
140	29.4	32.6	30.2	31.2	30.0	30.3	29.3	32.0										
145	32.2	35.1	33.0	34.0	33.4	33.8	32.8	35.0										
150	35.8	37.5	35.7	37.3	36.5	36.6	36.1	37.6										
155	37.0	36.8	36.8	36.5	36.6	35.8	37.1	36.3										
160	36.9	33.4	36.7	32.9	35.0	31.9	35.8	32.5										
165	33.9	28.8	33.1	28.1	31.1	27.3	31.4	27.9										
170	29.7	25.0	28.9	24.6	27.1	24.6	26.7	24.3										
175	29.3	26.9	28.8	25.4	28.7	26.6	27.0	26.8										
180	32.0	28.4	32.6	28.0	32.0	28.3	32.7	28.1										

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: