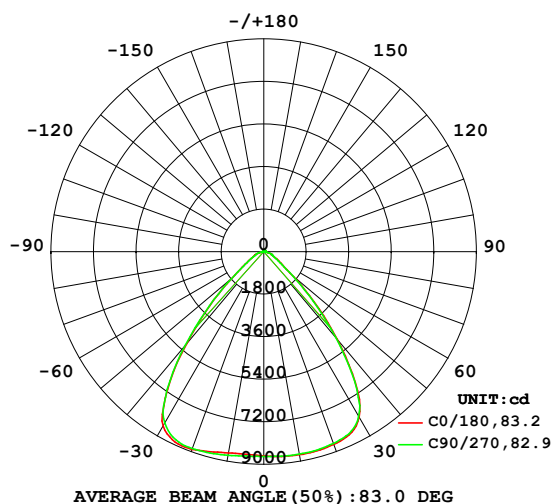


LUMINAIRE PHOTOMETRIC TEST REPORT

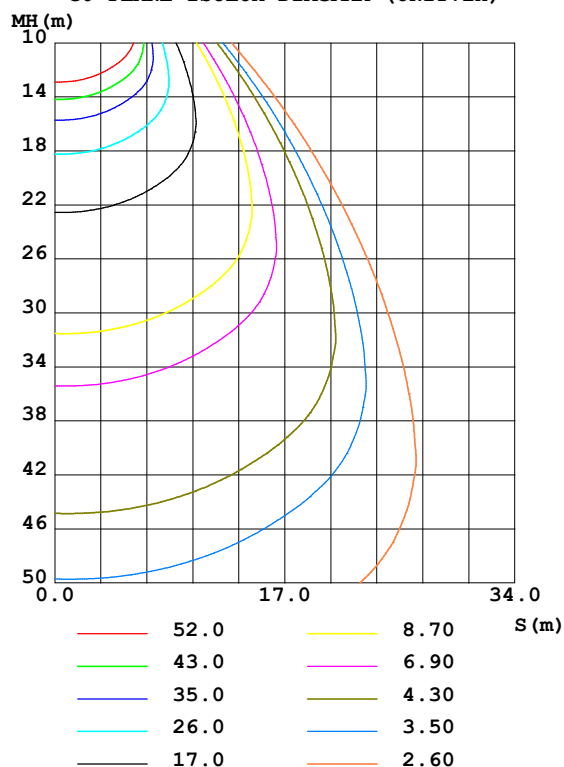
Test:U:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 163.56 lm/W			
MODEL		I _{max} (cd)	8945	S/MH(C0/180)	1.21
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	15985	□ UP,DN(C0-180)	1.0,48.1
NOMINAL FLUX(lm)	15984.6	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.9,50.0
LAMPS INSIDE	1	□ up(%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ down(%)	98.1	CIBSE SHR MAX	1.25

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	8726	8702	8697	8686	8648	8664	8745	8776	0- 10	828.9	828.9	5.19,5.19
20	8671	8636	8637	8770	8904	8917	8862	8777	10- 20	2480	3309	20.7,20.7
30	8067	7925	8039	8313	8518	8581	8367	8222	20- 30	3988	7297	45.6,45.6
40	4831	4640	4740	5152	5095	5378	5160	4790	30- 40	4251	11548	72.2,72.2
50	1664	1524	1613	1842	1837	1905	1837	1643	40- 50	2446	13995	87.5,87.5
60	646.7	572.7	603.4	691.3	701.4	710.5	657.5	648.5	50- 60	929.7	14924	93.4,93.4
70	333.3	311.4	360.7	390.9	396.4	386.6	348.3	344.5	60- 70	463.5	15388	96.3,96.3
80	100.0	89.12	95.56	98.65	97.40	107.7	98.81	94.06	70- 80	220.8	15608	97.6,97.6
90	41.89	42.16	44.33	41.87	40.52	42.60	41.73	37.11	80- 90	72.53	15681	98.1,98.1
100	29.80	31.27	32.17	30.68	29.81	28.68	27.79	27.89	90-100	35.99	15717	98.3,98.3
110	36.82	39.21	38.18	37.58	38.36	36.26	34.06	34.60	100-110	34.82	15752	98.5,98.5
120	48.02	47.08	45.50	43.29	41.82	46.18	47.36	49.44	110-120	42.19	15794	98.8,98.8
130	54.10	53.52	53.47	53.29	55.10	54.42	54.47	55.73	120-130	43.59	15838	99.1,99.1
140	62.70	61.19	62.00	60.97	63.53	61.91	62.94	59.99	130-140	45.35	15883	99.4,99.4
150	65.14	67.30	66.33	66.18	65.89	66.79	65.99	66.03	140-150	40.32	15923	99.6,99.6
160	72.28	72.42	74.37	71.99	73.51	72.54	73.22	72.93	150-160	31.89	15955	99.8,99.8
170	80.24	78.88	81.85	80.17	81.23	79.03	80.90	79.56	160-170	21.68	15977	100,100
180	85.82	82.72	85.85	83.66	85.75	82.80	85.83	83.57	170-180	7.808	15985	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 13030 lm

%lum = 81.5%

%lamp = 81.5%

Conical surface Flux(120deg): 14924 lm

%lum = 93.4%

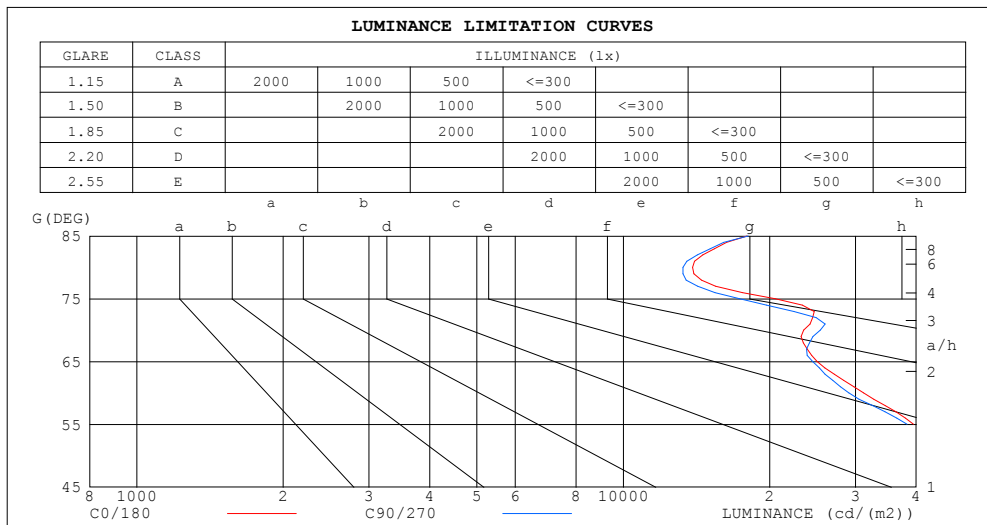
%lamp = 93.4%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17969	18057
80	13881	13261
75	20521	17337
70	23479	25412
65	25024	24510
60	31166	29080
55	39460	38329
50	62372	60465
45	103584	100712

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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	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	.223 .127 .040	.216 .123 .039	.202 .116 .037	.189 .109 .035	.177 .103 .033	
2.0	.215 .118 .036	.208 .115 .035	.196 .109 .034	.185 .104 .033	.175 .099 .031	
3.0	.204 .109 .033	.199 .106 .032	.188 .102 .031	.178 .098 .030	.169 .094 .029	
4.0	.194 .101 .030	.189 .099 .029	.179 .095 .028	.171 .092 .028	.163 .088 .027	
5.0	.183 .093 .027	.179 .092 .027	.171 .089 .026	.163 .086 .026	.156 .083 .025	
6.0	.174 .087 .025	.170 .086 .025	.162 .083 .024	.156 .081 .024	.149 .079 .023	
7.0	.165 .081 .023	.161 .080 .023	.155 .078 .023	.149 .076 .022	.143 .074 .022	
8.0	.156 .076 .021	.153 .076 .021	.147 .074 .021	.142 .072 .021	.137 .070 .020	
9.0	.149 .072 .020	.146 .071 .020	.141 .070 .020	.136 .068 .019	.131 .066 .019	
10.0	.142 .068 .019	.139 .067 .019	.134 .066 .019	.130 .064 .018	.125 .063 .018	

<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	.205 .205 .205	.175 .175 .175	.120 .120 .120	.069 .069 .069	.022 .022 .022	
1.0	.189 .171 .156	.162 .147 .134	.111 .101 .093	.064 .059 .054	.020 .019 .017	
2.0	.177 .147 .122	.151 .127 .105	.104 .088 .074	.060 .051 .043	.019 .016 .014	
3.0	.167 .129 .098	.143 .111 .085	.098 .077 .060	.057 .045 .035	.018 .015 .012	
4.0	.158 .115 .081	.136 .099 .071	.093 .069 .050	.054 .040 .029	.017 .013 .010	
5.0	.150 .104 .069	.129 .090 .060	.089 .063 .042	.052 .037 .025	.017 .012 .008	
6.0	.144 .095 .060	.123 .082 .052	.085 .057 .037	.049 .034 .022	.016 .011 .007	
7.0	.138 .088 .053	.118 .076 .046	.082 .053 .033	.047 .031 .019	.015 .010 .006	
8.0	.132 .082 .047	.114 .071 .041	.079 .050 .029	.046 .029 .017	.015 .010 .006	
9.0	.127 .077 .043	.109 .067 .038	.076 .047 .027	.044 .028 .016	.014 .009 .005	
10.0	.122 .073 .040	.105 .063 .035	.073 .044 .025	.043 .026 .015	.014 .009 .005	

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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm										
NAME: H17-RPC-100W-4K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAB LIGHTING INC					SUR.:0.23			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	25.1	26.3	25.4	26.5	26.7	25.0	26.2	25.3	26.4	26.6
3H	25.3	26.4	25.6	26.6	26.9	25.2	26.3	25.5	26.5	26.8
4H	25.4	26.4	25.7	26.7	26.9	25.3	26.3	25.6	26.6	26.8
6H	25.4	26.3	25.7	26.6	26.9	25.2	26.2	25.6	26.5	26.8
8H	25.3	26.3	25.7	26.6	26.9	25.2	26.1	25.6	26.4	26.8
12H	25.3	26.2	25.7	26.5	26.9	25.2	26.1	25.6	26.4	26.7
4H 2H	25.0	26.0	25.3	26.3	26.6	24.9	25.9	25.2	26.2	26.5
3H	25.3	26.2	25.7	26.5	26.8	25.2	26.1	25.6	26.4	26.8
4H	25.5	26.3	25.9	26.6	27.0	25.4	26.1	25.7	26.5	26.8
6H	25.5	26.2	25.9	26.6	27.0	25.4	26.1	25.8	26.4	26.8
8H	25.5	26.1	25.9	26.5	27.0	25.4	26.0	25.8	26.4	26.8
12H	25.5	26.1	26.0	26.5	27.0	25.4	26.0	25.9	26.4	26.8
8H 4H	25.4	26.1	25.8	26.5	26.9	25.3	26.0	25.7	26.3	26.8
6H	25.5	26.0	25.9	26.4	26.9	25.4	25.9	25.8	26.3	26.8
8H	25.5	26.0	26.0	26.4	26.9	25.4	25.9	25.9	26.3	26.8
12H	25.6	26.0	26.1	26.5	27.0	25.5	25.9	26.0	26.4	26.9
12H 4H	25.4	26.0	25.8	26.4	26.8	25.3	25.9	25.7	26.3	26.7
6H	25.5	25.9	25.9	26.4	26.9	25.3	25.8	25.8	26.3	26.7
8H	25.5	25.9	26.0	26.4	26.9	25.4	25.8	25.9	26.3	26.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.6 / - 2.7					+ 1.6 / - 2.8				
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4				
2.0H	+ 3.7 / - 2.3					+ 3.7 / - 2.3				

CIE Pub.117, 15985 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.6$)

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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

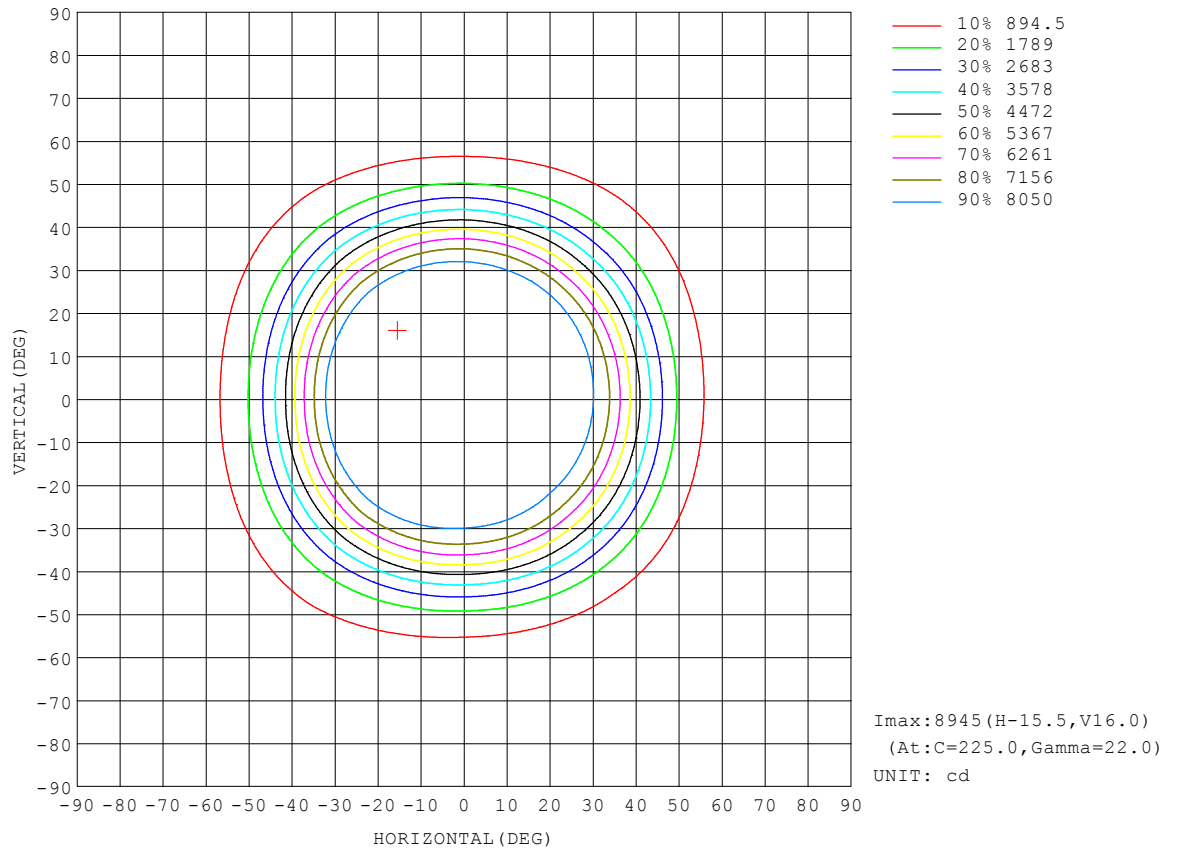
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	75	70	81	74	69	64
1.00	90	82	77	89	82	77	87	82	76	71
1.25	95	88	83	94	87	83	92	86	82	76
1.50	99	92	88	97	91	87	95	90	86	80
2.00	103	98	93	102	96	92	98	94	91	84
2.50	106	101	97	104	99	96	100	96	93	86
3.00	108	103	100	106	102	98	102	99	96	88
4.00	111	107	104	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	92
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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

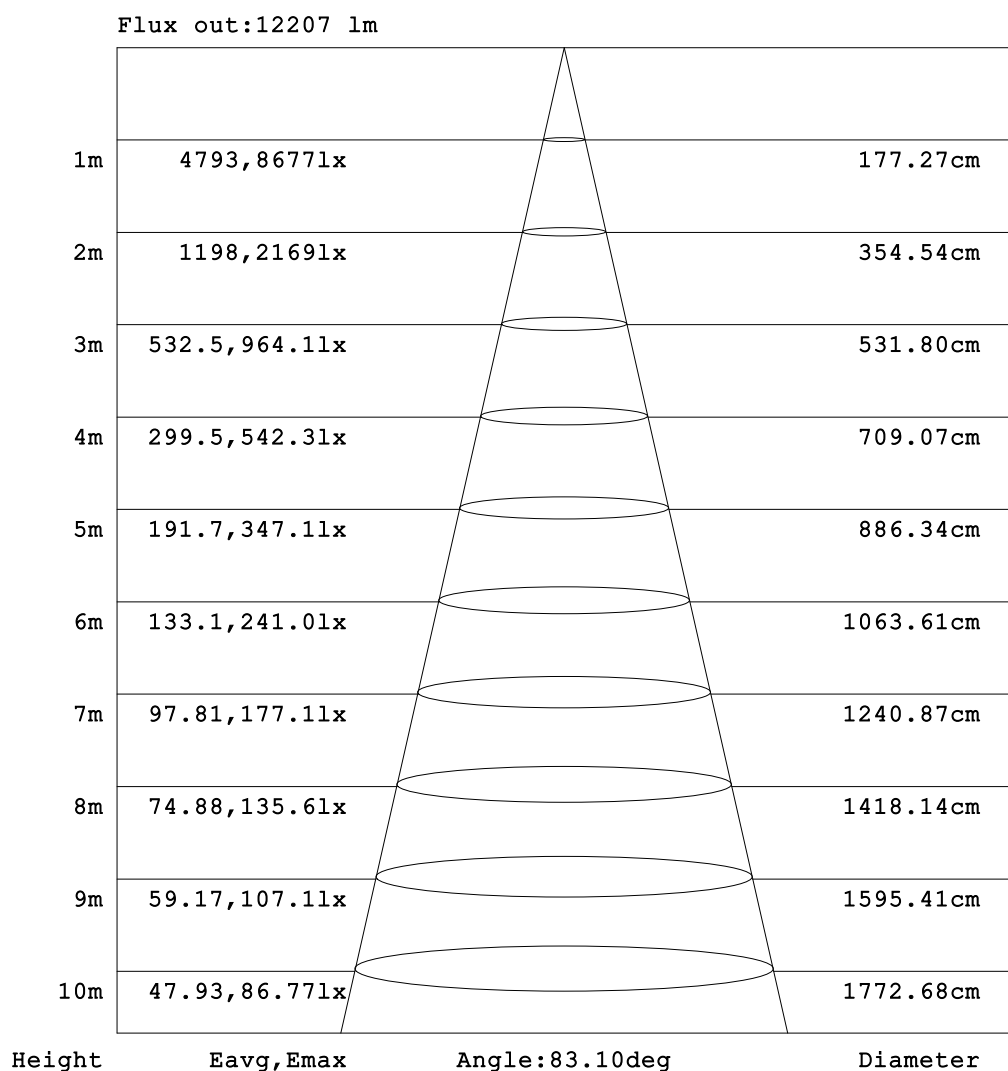


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

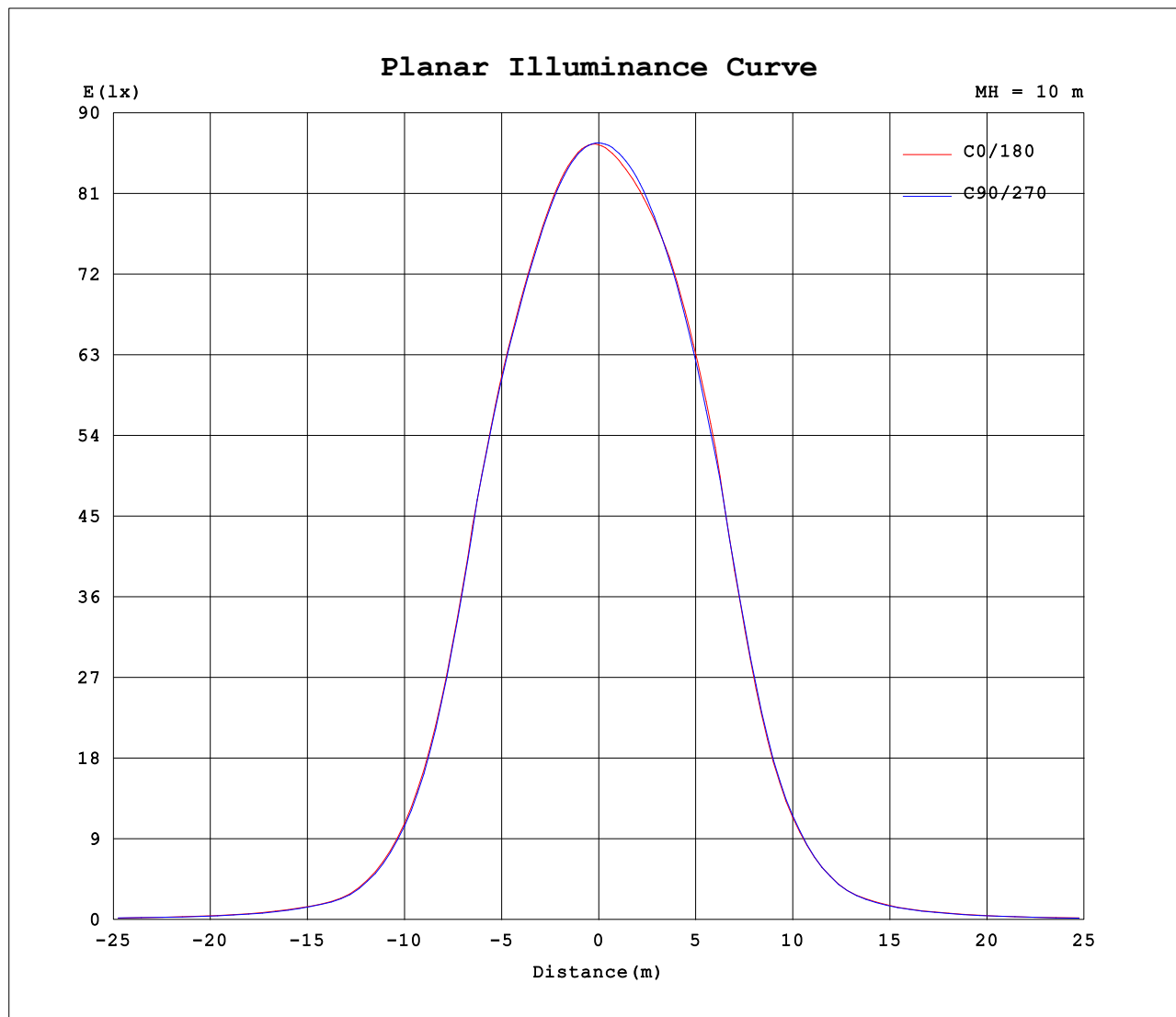


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.6V I:0.8125A P:97.73W PF:0.9975 Freq:59.98Hz Lamp Flux:15984.6x1 lm		
NAME: H17-RPC-100W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8644	8657	8667	8675	8644	8657	8667	8675										
5	8695	8698	8682	8656	8610	8629	8681	8728										
10	8726	8702	8697	8686	8648	8664	8745	8776										
15	8724	8671	8691	8742	8761	8788	8816	8788										
20	8671	8636	8637	8770	8904	8917	8862	8777										
25	8555	8496	8515	8694	8886	8901	8788	8706										
30	8067	7925	8039	8313	8518	8581	8367	8222										
35	6764	6538	6701	7125	7090	7374	7155	6853										
40	4831	4640	4740	5152	5095	5378	5160	4790										
45	3040	2897	2955	3250	3225	3400	3287	2975										
50	1664	1524	1613	1842	1837	1905	1837	1643										
55	939	872	912	1031	1048	1079	1019	979										
60	647	573	603	691	701	710	657	648										
65	439	392	430	483	465	494	438	443										
70	333	311	361	391	396	387	348	345										
75	220	181	186	189	172	191	190	189										
80	100	89.1	95.6	98.6	97.4	108	98.8	94.1										
85	65.0	62.0	65.3	66.9	63.7	70.8	67.6	62.2										
90	41.9	42.2	44.3	41.9	40.5	42.6	41.7	37.1										
95	32.0	33.0	33.2	32.1	30.7	31.8	30.7	28.4										
100	29.8	31.3	32.2	30.7	29.8	28.7	27.8	27.9										
105	32.8	34.9	35.7	34.0	33.6	31.0	30.1	30.1										
110	36.8	39.2	38.2	37.6	38.4	36.3	34.1	34.6										
115	43.0	44.6	45.3	43.0	43.0	44.1	40.7	40.7										
120	48.0	47.1	45.5	43.3	41.8	46.2	47.4	49.4										
125	47.5	47.1	45.9	45.8	46.4	46.9	48.5	54.0										
130	54.1	53.5	53.5	53.3	55.1	54.4	54.5	55.7										
135	59.0	57.9	59.0	58.5	60.9	59.1	59.6	58.0										
140	62.7	61.2	62.0	61.0	63.5	61.9	62.9	60.0										
145	65.1	65.0	65.0	64.1	65.1	64.1	65.5	63.1										
150	65.1	67.3	66.3	66.2	65.9	66.8	66.0	66.0										
155	68.0	68.6	69.8	68.0	69.1	68.6	68.8	68.6										
160	72.3	72.4	74.4	72.0	73.5	72.5	73.2	72.9										
165	76.7	76.0	78.5	76.3	78.0	76.2	77.7	77.0										
170	80.2	78.9	81.9	80.2	81.2	79.0	80.9	79.6										
175	83.1	81.8	84.2	82.7	83.4	80.4	82.7	81.3										
180	85.8	82.7	85.8	83.7	85.7	82.8	85.8	83.6										

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: