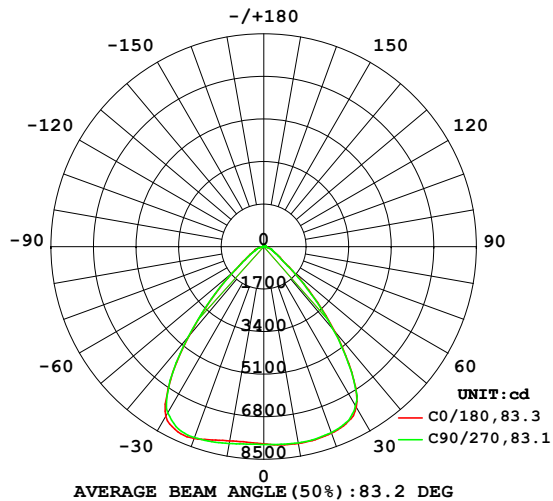


LUMINAIRE PHOTOMETRIC TEST REPORT

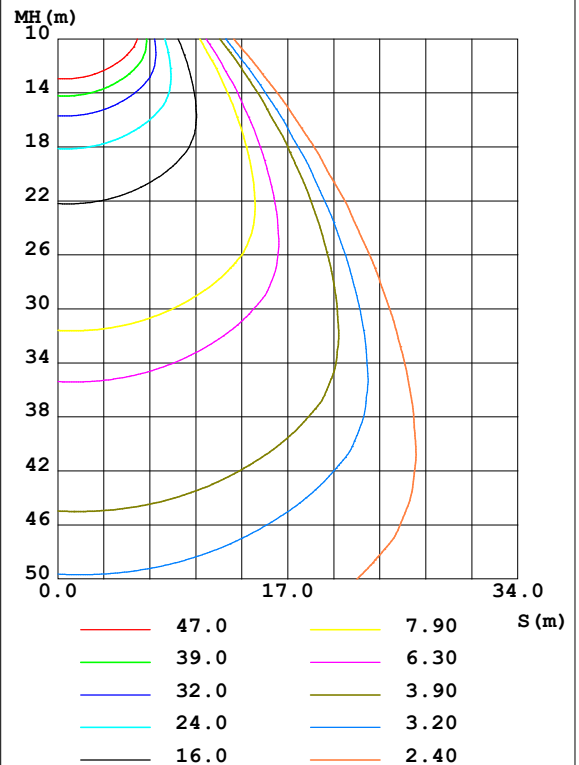
Test:U:120.6V I:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.43 lm/W			
MODEL		I _{max} (cd)	8198	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)	14593	□ UP,DN(C0-180)	1.0,48.1
NOMINAL FLUX(lm)	14593	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	7988	7968	7958	7928	7878	7892	7987	8033	0- 10	756.8	756.8	5.19,5.19
20	7929	7906	7907	8040	8157	8166	8113	8030	10- 20	2268	3025	20.7,20.7
30	7388	7236	7331	7652	7829	7865	7674	7487	20- 30	3651	6677	45.8,45.8
40	4386	4232	4306	4708	4672	4900	4676	4342	30- 40	3882	10559	72.4,72.4
50	1496	1421	1507	1696	1668	1711	1627	1462	40- 50	2231	12790	87.6,87.6
60	587.9	523.9	550.1	629.4	635.9	644.3	597.2	587.9	50- 60	842.6	13632	93.4,93.4
70	296.3	282.4	328.6	358.4	359.4	353.4	314.7	314.4	60- 70	419.5	14052	96.3,96.3
80	91.15	80.09	87.24	89.05	88.00	98.09	88.62	83.96	70- 80	200.0	14252	97.7,97.7
90	37.99	38.27	40.05	37.93	36.53	38.31	37.17	33.32	80- 90	65.51	14317	98.1,98.1
100	26.90	28.25	29.04	27.73	26.83	25.92	25.06	25.17	90-100	32.46	14350	98.3,98.3
110	33.38	35.42	34.50	34.10	34.76	32.86	30.89	31.40	100-110	31.50	14381	98.5,98.5
120	43.77	42.86	41.26	39.32	37.97	41.98	42.90	45.03	110-120	38.28	14419	98.8,98.8
130	49.29	48.76	48.66	48.50	50.13	49.54	49.59	50.68	120-130	39.63	14459	99.1,99.1
140	57.11	55.72	56.45	55.50	57.75	56.21	57.22	54.65	130-140	41.28	14500	99.4,99.4
150	59.39	61.32	60.46	60.29	60.03	60.62	60.11	60.21	140-150	36.71	14537	99.6,99.6
160	65.93	66.07	67.81	65.66	67.06	66.11	66.77	66.55	150-160	29.07	14566	99.8,99.8
170	73.25	72.03	74.73	73.17	74.16	72.19	73.89	72.69	160-170	19.79	14586	100,100
180	78.37	75.64	78.39	76.45	78.33	75.68	78.35	76.44	170-180	7.132	14593	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11911 lm

%lum = 81.6%

%lamp = 81.6%

Conical surface Flux(120deg): 13632 lm

%lum = 93.4%

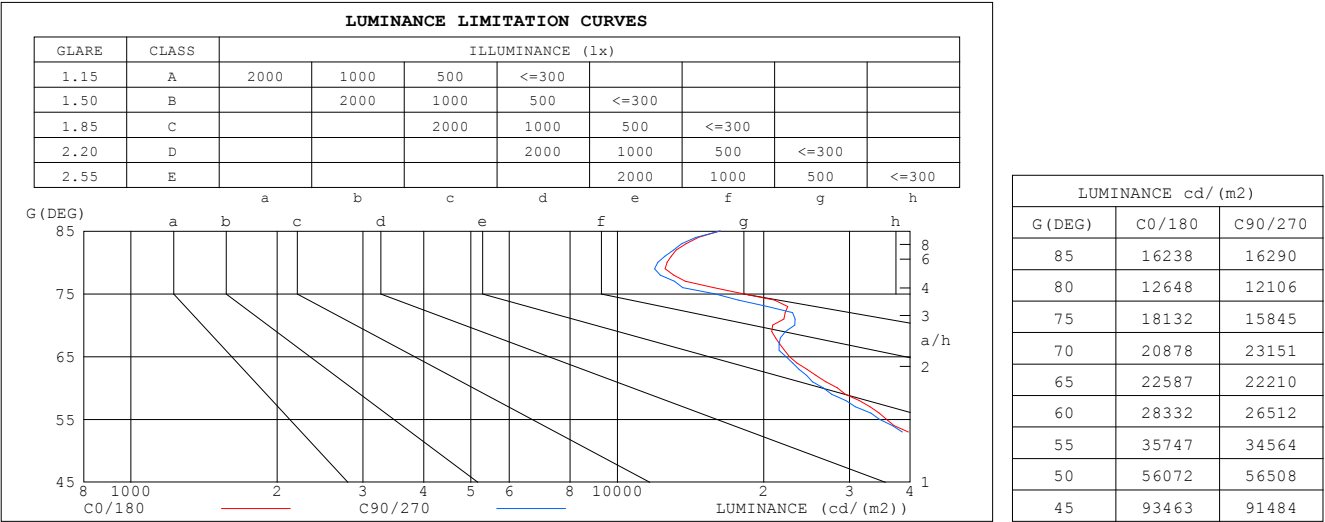
%lamp = 93.4%

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:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	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:

WEC AND CCEC

Test:U:120.6V I:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm					
NAME: H17-RPC-100W-3K			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	.215	.123	.039	.201	.116	.037	.189	.109	.035	.177	.102	.033	
2.0	.215	.118	.036	.208	.115	.035	.196	.109	.034	.185	.104	.032	.175	.099	.031	
3.0	.204	.109	.033	.198	.106	.032	.188	.102	.031	.178	.098	.030	.169	.094	.029	
4.0	.193	.100	.030	.188	.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	.078	.023	
7.0	.165	.081	.023	.161	.080	.023	.155	.078	.023	.148	.076	.022	.143	.074	.022	
8.0	.156	.076	.021	.153	.075	.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	.110	.101	.093	.064	.059	.054	.020	.019	.017	
2.0	.177	.147	.122	.151	.126	.105	.104	.087	.074	.060	.051	.043	.019	.016	.014	
3.0	.166	.129	.098	.143	.111	.085	.098	.077	.060	.057	.045	.035	.018	.015	.012	
4.0	.158	.115	.081	.135	.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	.137	.088	.053	.118	.076	.046	.082	.053	.033	.047	.031	.019	.015	.010	.006	
8.0	.132	.082	.047	.113	.071	.041	.078	.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	.042	.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:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm										
NAME: H17-RPC-100W-3K					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	24.8	26.0	25.1	26.2	26.4	24.7	25.9	25.0	26.1	26.3
3H	24.9	26.0	25.2	26.3	26.5	24.9	26.0	25.2	26.2	26.5
4H	25.0	26.1	25.4	26.3	26.6	24.9	26.0	25.3	26.2	26.5
6H	25.0	26.0	25.4	26.3	26.6	24.9	25.9	25.3	26.2	26.5
8H	25.0	25.9	25.4	26.2	26.5	24.9	25.8	25.3	26.1	26.4
12H	25.0	25.9	25.4	26.2	26.5	24.9	25.8	25.3	26.1	26.4
4H 2H	24.7	25.7	25.0	26.0	26.2	24.6	25.6	24.9	25.9	26.2
3H	25.0	25.8	25.3	26.2	26.5	24.9	25.8	25.3	26.1	26.4
4H	25.1	25.9	25.5	26.3	26.6	25.0	25.8	25.4	26.2	26.5
6H	25.1	25.8	25.6	26.2	26.6	25.1	25.7	25.5	26.1	26.5
8H	25.2	25.8	25.6	26.2	26.6	25.1	25.7	25.5	26.1	26.5
12H	25.2	25.8	25.6	26.2	26.6	25.1	25.7	25.5	26.1	26.5
8H 4H	25.1	25.7	25.5	26.1	26.5	25.0	25.6	25.4	26.0	26.4
6H	25.1	25.7	25.6	26.1	26.6	25.0	25.6	25.5	26.0	26.5
8H	25.2	25.6	25.7	26.1	26.6	25.1	25.6	25.6	26.0	26.5
12H	25.2	25.6	25.8	26.1	26.6	25.2	25.6	25.7	26.0	26.5
12H 4H	25.0	25.6	25.5	26.0	26.5	24.9	25.5	25.4	25.9	26.4
6H	25.1	25.6	25.6	26.0	26.5	25.0	25.5	25.5	25.9	26.4
8H	25.2	25.6	25.7	26.0	26.6	25.1	25.5	25.6	26.0	26.5
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	+ 3.6 / - 2.3					+ 3.7 / - 2.3				

CIE Pub.117, 14593 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.3$)

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:

UTILIZATION FACTORS TABLE

Test:U:120.6V I:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

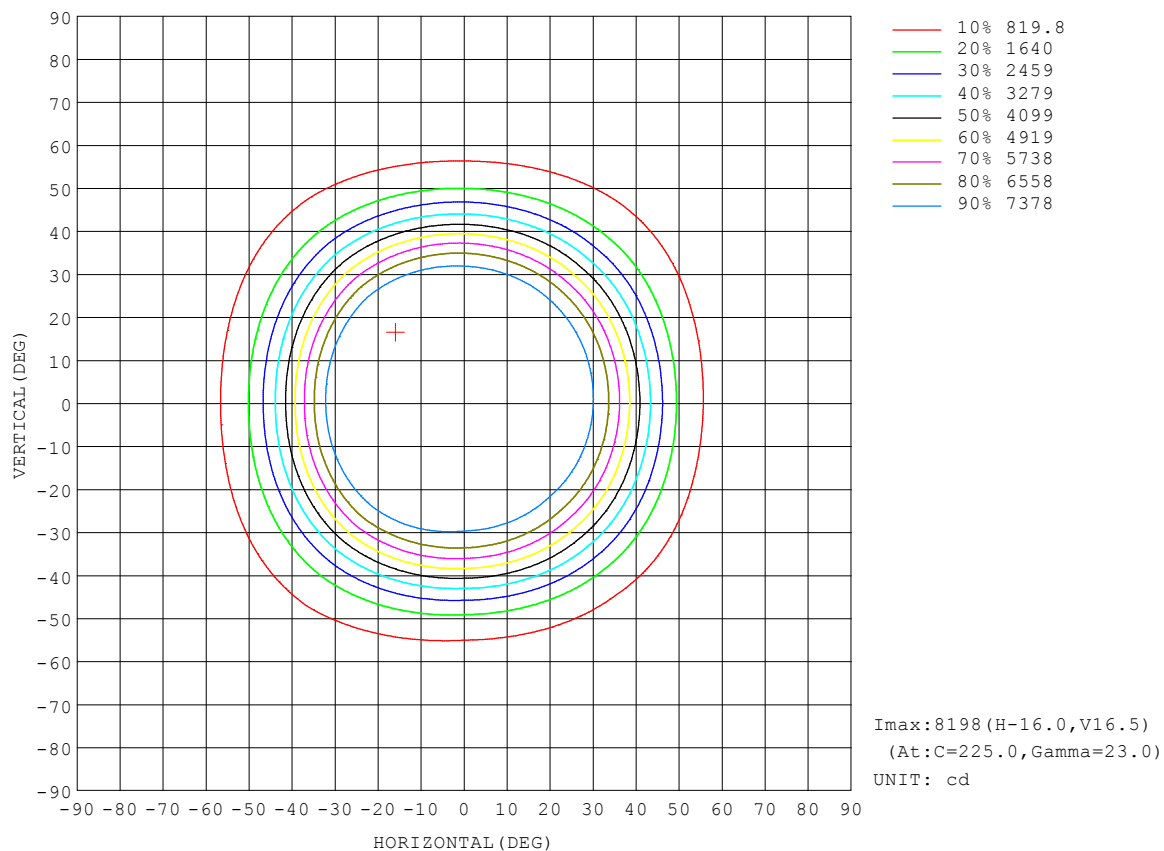
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	66	60	73	65	60	72	65	60	55
0.80	83	75	70	82	75	70	81	74	69	64
1.00	90	82	77	89	82	77	87	82	76	71
1.25	95	88	83	94	88	83	92	86	82	76
1.50	99	92	88	98	92	87	95	90	86	80
2.00	103	98	93	102	97	93	98	94	91	84
2.50	106	101	97	104	99	96	100	97	93	86
3.00	108	103	100	106	102	98	102	99	96	89
4.00	111	107	104	108	105	102	104	101	99	91
5.00	112	109	106	110	107	105	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:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

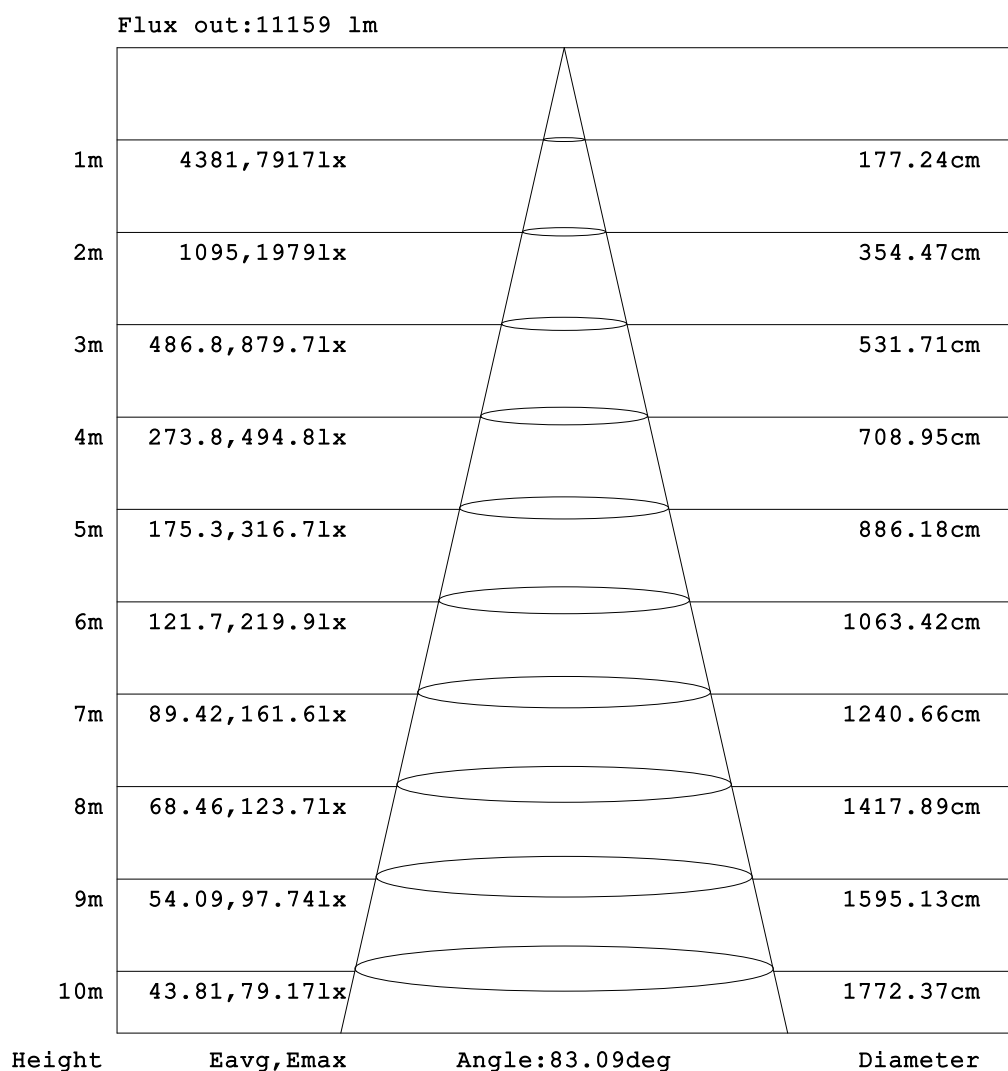


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

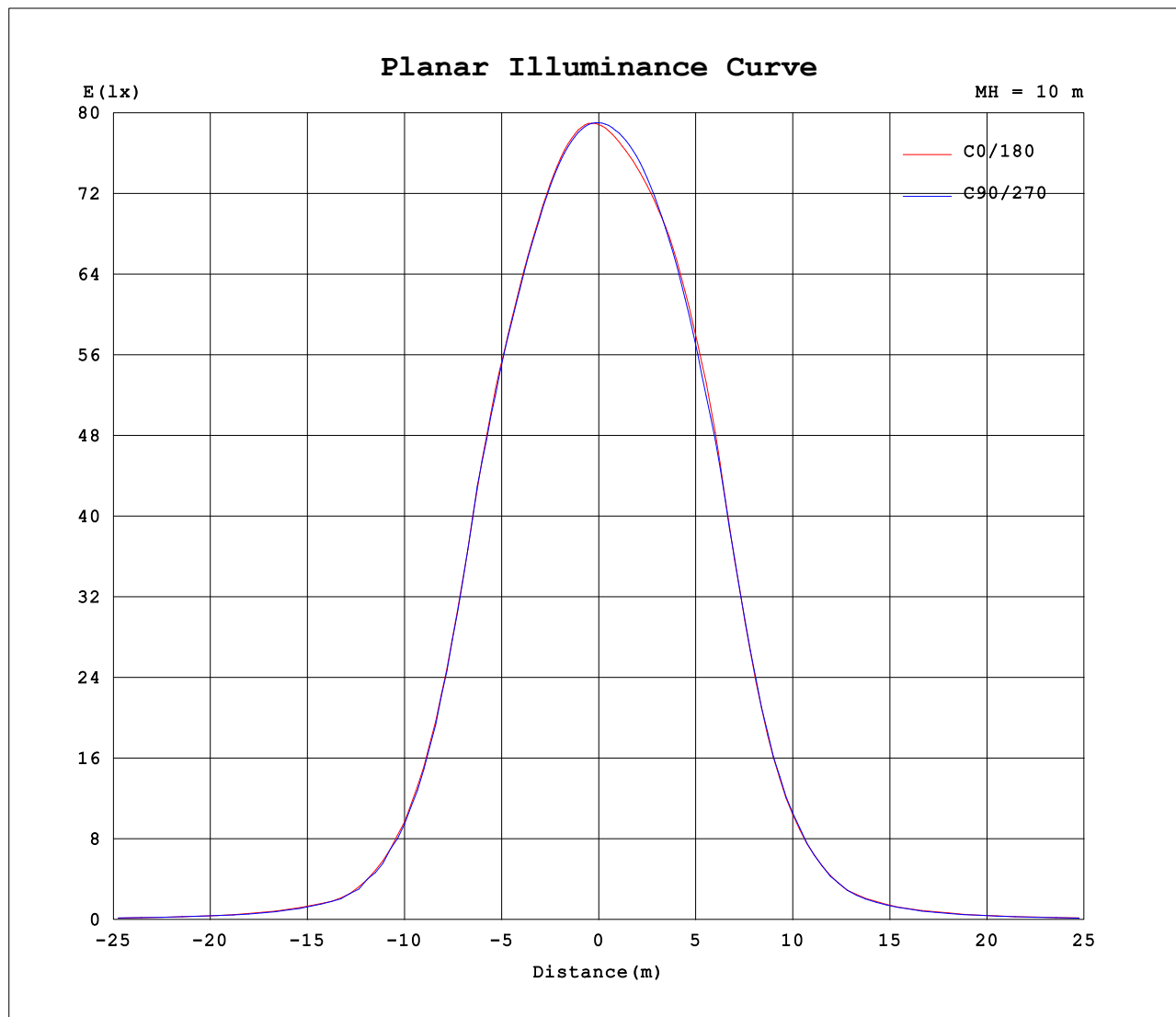


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.8342A P:100.3W PF:0.9976 Freq:59.98Hz Lamp Flux:14593x1 lm		
NAME: H17-RPC-100W-3K	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	7886	7895	7903	7913	7886	7895	7903	7913										
5	7950	7953	7928	7894	7842	7860	7917	7974										
10	7988	7968	7958	7928	7878	7892	7987	8033										
15	7983	7940	7959	8001	7999	8021	8068	8044										
20	7929	7906	7907	8040	8157	8166	8113	8030										
25	7801	7749	7771	7975	8160	8163	8050	7976										
30	7388	7236	7331	7652	7829	7865	7674	7487										
35	6142	5950	6116	6541	6497	6745	6535	6233										
40	4386	4232	4306	4708	4672	4900	4676	4342										
45	2743	2649	2685	2965	2948	3090	2995	2704										
50	1496	1421	1507	1696	1668	1711	1627	1462										
55	851	794	823	932	960	984	918	881										
60	588	524	550	629	636	644	597	588										
65	396	355	390	435	421	451	395	402										
70	296	282	329	358	359	353	315	314										
75	195	168	170	176	160	173	173	168										
80	91.1	80.1	87.2	89.1	88.0	98.1	88.6	84.0										
85	58.7	56.1	58.9	60.4	57.3	63.9	60.5	55.6										
90	38.0	38.3	40.0	37.9	36.5	38.3	37.2	33.3										
95	28.9	29.9	30.0	28.9	27.6	28.7	27.6	25.6										
100	26.9	28.2	29.0	27.7	26.8	25.9	25.1	25.2										
105	29.7	31.6	32.3	30.7	30.4	28.0	27.2	27.3										
110	33.4	35.4	34.5	34.1	34.8	32.9	30.9	31.4										
115	39.0	40.3	41.1	39.0	39.0	40.0	36.9	37.1										
120	43.8	42.9	41.3	39.3	38.0	42.0	42.9	45.0										
125	43.2	42.8	41.7	41.6	42.1	42.6	44.1	49.4										
130	49.3	48.8	48.7	48.5	50.1	49.5	49.6	50.7										
135	53.7	52.8	53.7	53.3	55.4	53.7	54.2	52.9										
140	57.1	55.7	56.5	55.5	57.8	56.2	57.2	54.6										
145	59.3	59.1	59.2	58.3	59.3	58.2	59.6	57.6										
150	59.4	61.3	60.5	60.3	60.0	60.6	60.1	60.2										
155	62.0	62.6	63.7	62.0	63.0	62.6	62.8	62.5										
160	65.9	66.1	67.8	65.7	67.1	66.1	66.8	66.5										
165	69.9	69.4	71.6	69.6	71.2	69.5	70.9	70.3										
170	73.3	72.0	74.7	73.2	74.2	72.2	73.9	72.7										
175	75.9	74.7	77.0	75.6	76.2	73.6	75.6	74.3										
180	78.4	75.6	78.4	76.5	78.3	75.7	78.3	76.4										

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: