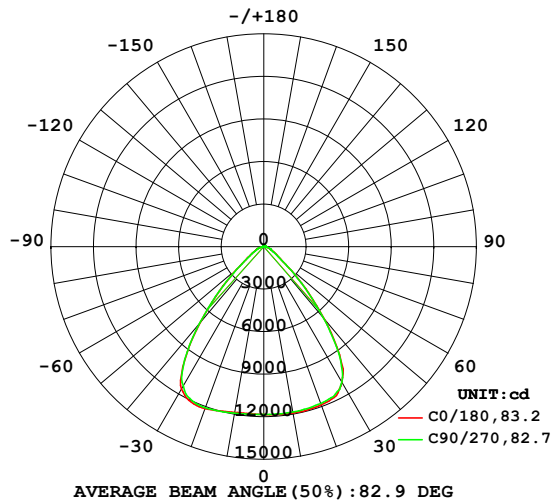


LUMINAIRE PHOTOMETRIC TEST REPORT

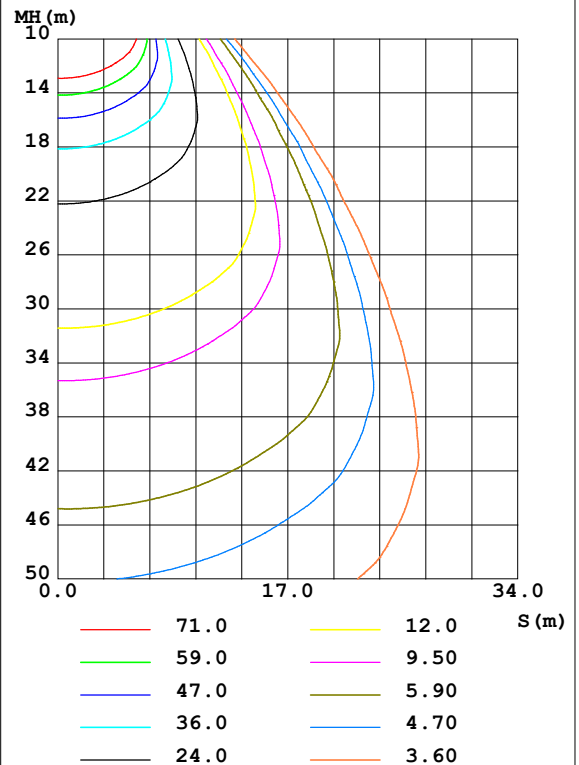
Test:U:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm					
NAME: H17-RPC-150W-5K		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: RAB LIGHTING INC		SUR.:0.23		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 148.04 lm/W
MODEL		I _{max} (cd)	12182	S/MH(C0/180)	1.21	
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.21	
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	21875	□ UP,DN(C0-180)	1.0,48.2	
NOMINAL FLUX(lm)	21874.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	1.0,49.9	
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	1191	1186	1184	1184	1187	1187	1193	1194	0- 10	1132	1132	5.18, 5.18
20	1186	1179	1177	1192	1215	1216	1208	1197	10- 20	3382	4515	20.6, 20.6
30	1103	1085	1102	1128	1160	1169	1136	1123	20- 30	5441	9956	45.5, 45.5
40	665.5	636.4	655.7	713.5	696.2	737.3	702.7	649.4	30- 40	5819	15775	72.1, 72.1
50	231.6	205.2	216.7	261.3	251.7	265.6	250.5	225.3	40- 50	3349	19123	87.4, 87.4
60	89.28	78.27	83.67	96.52	97.04	98.29	89.67	88.28	50- 60	1285	20408	93.3, 93.3
70	47.11	43.32	49.61	53.86	54.90	52.88	48.08	47.23	60- 70	641.7	21050	96.2, 96.2
80	13.67	12.44	13.26	13.89	13.56	14.82	13.69	13.02	70- 80	304.3	21355	97.6, 97.6
90	5.779	5.813	6.170	5.865	5.607	5.916	5.789	5.063	80- 90	100.6	21455	98.1, 98.1
100	4.153	4.343	4.459	4.240	4.147	3.984	3.870	3.878	90-100	49.93	21505	98.3, 98.3
110	5.114	5.457	5.293	5.181	5.309	5.016	4.726	4.807	100-110	48.31	21553	98.5, 98.5
120	6.639	6.504	6.308	5.985	5.785	6.368	6.553	6.836	110-120	58.41	21612	98.8, 98.8
130	7.484	7.388	7.354	7.309	7.601	7.486	7.524	7.691	120-130	60.17	21672	99.1, 99.1
140	8.674	8.461	8.550	8.400	8.781	8.540	8.681	8.266	130-140	62.56	21734	99.4, 99.4
150	9.002	9.293	9.134	9.100	9.085	9.191	9.082	9.077	140-150	55.63	21790	99.6, 99.6
160	9.963	9.978	10.22	9.878	10.13	9.966	10.07	10.01	150-160	43.89	21834	99.8, 99.8
170	11.04	10.85	11.24	10.99	11.18	10.84	11.12	10.91	160-170	29.80	21864	100, 100
180	11.80	11.37	11.76	11.47	11.81	11.36	11.77	11.45	170-180	10.72	21875	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

Conical surface Flux(90deg): 17802 lm

%lum = 81.4%

%lamp = 81.4%

Conical surface Flux(120deg): 20408 lm

%lum = 93.3%

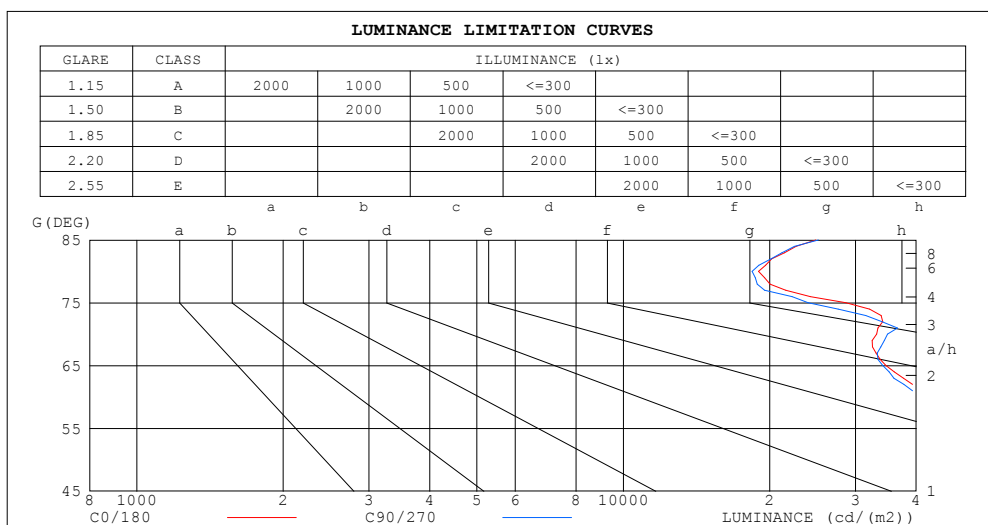
%lamp = 93.3%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm		
NAME: H17-RPC-150W-5K	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	24870	25195
80	18971	18394
75	28692	23990
70	33190	34949
65	34677	34154
60	43024	40321
55	54592	53567
50	86839	81229
45	143487	139251

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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm					
NAME: H17-RPC-150W-5K			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	.209	.115	.035	.197	.109	.034	.186	.104	.033	.175	.099	.031															
3.0	.204	.109	.033	.199	.107	.032	.188	.102	.031	.179	.098	.030	.170	.094	.029															
4.0	.194	.101	.030	.189	.099	.029	.180	.095	.028	.171	.092	.028	.163	.089	.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	.163	.083	.024	.156	.081	.024	.149	.079	.023															
7.0	.165	.082	.023	.161	.080	.023	.155	.078	.023	.149	.076	.022	.143	.074	.022															
8.0	.157	.077	.022	.154	.076	.021	.148	.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	.172	.156	.162	.147	.134	.111	.101	.093	.064	.059	.054	.020	.019	.017	
2.0	.177	.147	.122	.151	.127	.106	.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	.082	.136	.099	.071	.093	.069	.050	.054	.040	.030	.017	.013	.010	
5.0	.151	.104	.069	.129	.090	.060	.089	.063	.042	.052	.037	.025	.017	.012	.008	
6.0	.144	.095	.060	.124	.082	.052	.085	.058	.037	.049	.034	.022	.016	.011	.007	
7.0	.138	.088	.053	.118	.076	.046	.082	.053	.033	.048	.031	.019	.015	.010	.006	
8.0	.132	.082	.048	.114	.071	.041	.079	.050	.029	.046	.029	.018	.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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm											
NAME: H17-RPC-150W-5K						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	2H	26.2	27.4	26.5	27.6	27.9	26.1	27.3	26.4	27.5	27.8
	3H	26.4	27.5	26.7	27.7	28.0	26.3	27.4	26.6	27.7	27.9
	4H	26.5	27.5	26.8	27.8	28.1	26.4	27.4	26.7	27.7	28.0
	6H	26.5	27.4	26.8	27.7	28.0	26.4	27.3	26.7	27.6	27.9
	8H	26.5	27.4	26.8	27.7	28.0	26.4	27.3	26.7	27.6	27.9
	12H	26.5	27.3	26.8	27.7	28.0	26.4	27.2	26.7	27.6	27.9
4H	2H	26.1	27.2	26.5	27.4	27.7	26.0	27.1	26.4	27.3	27.6
	3H	26.4	27.3	26.8	27.6	27.9	26.4	27.2	26.7	27.6	27.9
	4H	26.6	27.4	27.0	27.7	28.1	26.5	27.3	26.9	27.6	28.0
	6H	26.6	27.3	27.0	27.7	28.1	26.5	27.2	26.9	27.6	28.0
	8H	26.6	27.3	27.1	27.7	28.1	26.5	27.2	27.0	27.6	28.0
	12H	26.7	27.2	27.1	27.7	28.1	26.6	27.1	27.0	27.6	28.0
8H	4H	26.5	27.2	27.0	27.6	28.0	26.5	27.1	26.9	27.5	27.9
	6H	26.6	27.1	27.1	27.6	28.0	26.5	27.0	27.0	27.5	27.9
	8H	26.7	27.1	27.1	27.6	28.1	26.6	27.0	27.0	27.5	28.0
	12H	26.7	27.1	27.2	27.6	28.1	26.6	27.0	27.1	27.5	28.0
12H	4H	26.5	27.1	27.0	27.5	27.9	26.4	27.0	26.9	27.4	27.8
	6H	26.6	27.1	27.1	27.5	28.0	26.5	27.0	27.0	27.4	27.9
	8H	26.7	27.1	27.2	27.5	28.0	26.6	26.9	27.1	27.4	27.9
Variations with the observer position at spacings:											
S = 1.0H	+ 1.5 / - 2.6					+ 1.6 / - 2.7					
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4					
2.0H	+ 3.7 / - 2.3					+ 3.6 / - 2.3					

CIE Pub.117, 21875 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.7$)

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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm		
NAME: H17-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

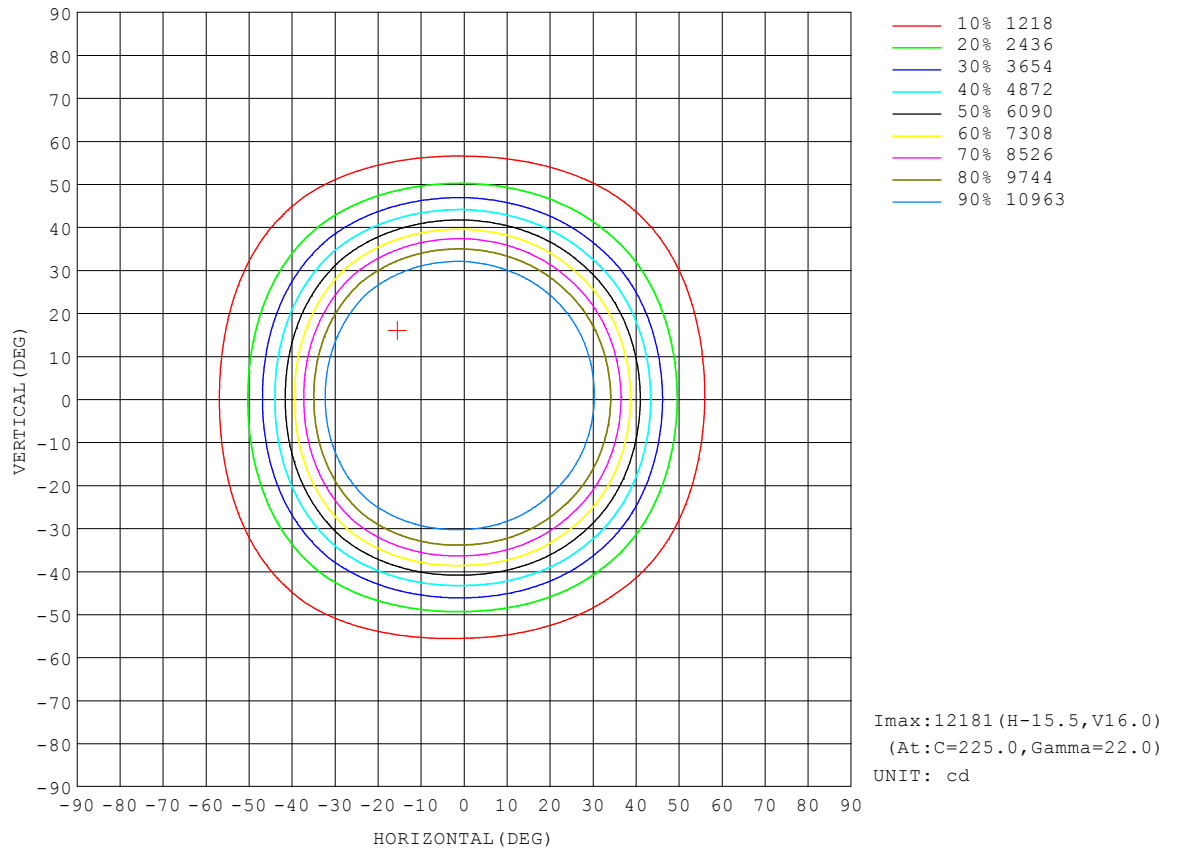
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	74	69	81	74	69	64
1.00	90	82	77	89	81	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	96	104	99	95	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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm		
NAME: H17-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

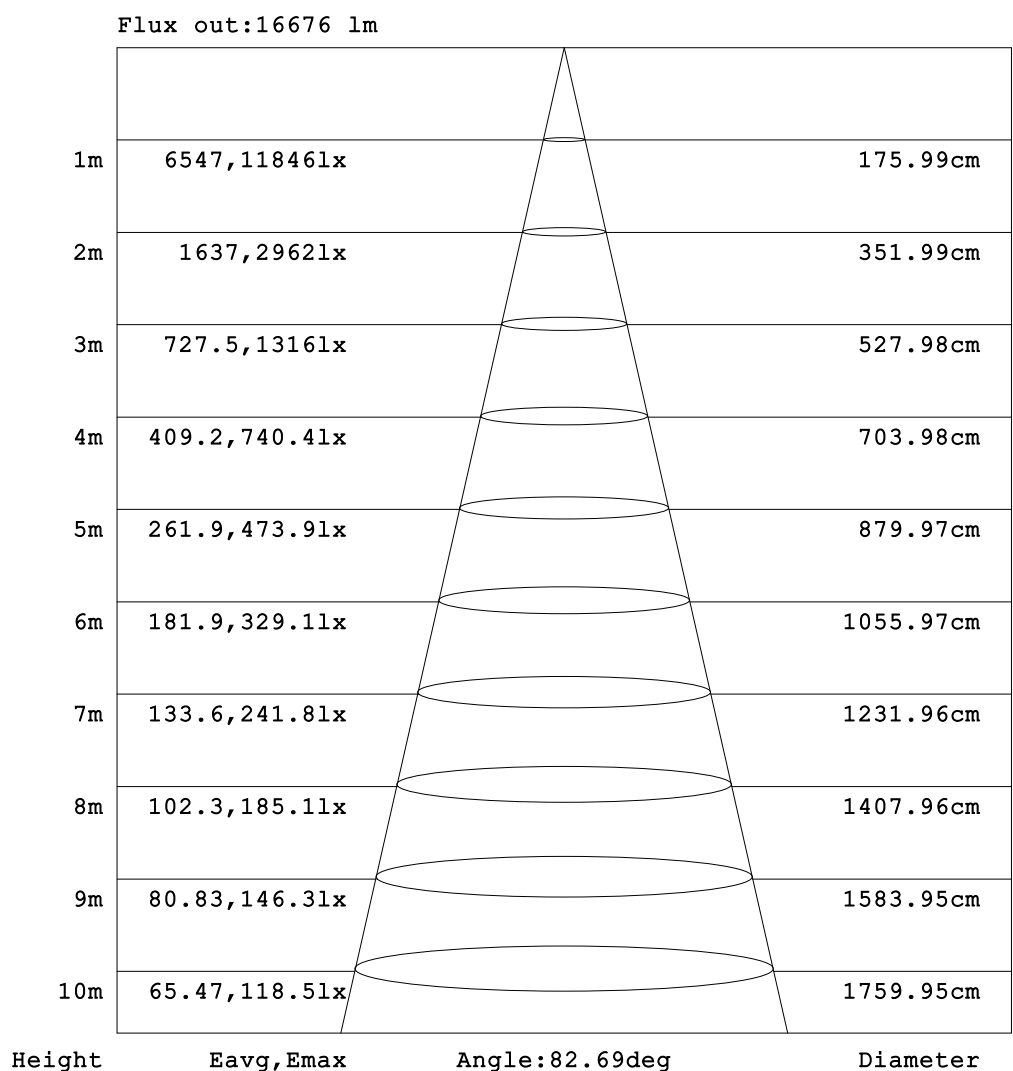


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm		
NAME: H17-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

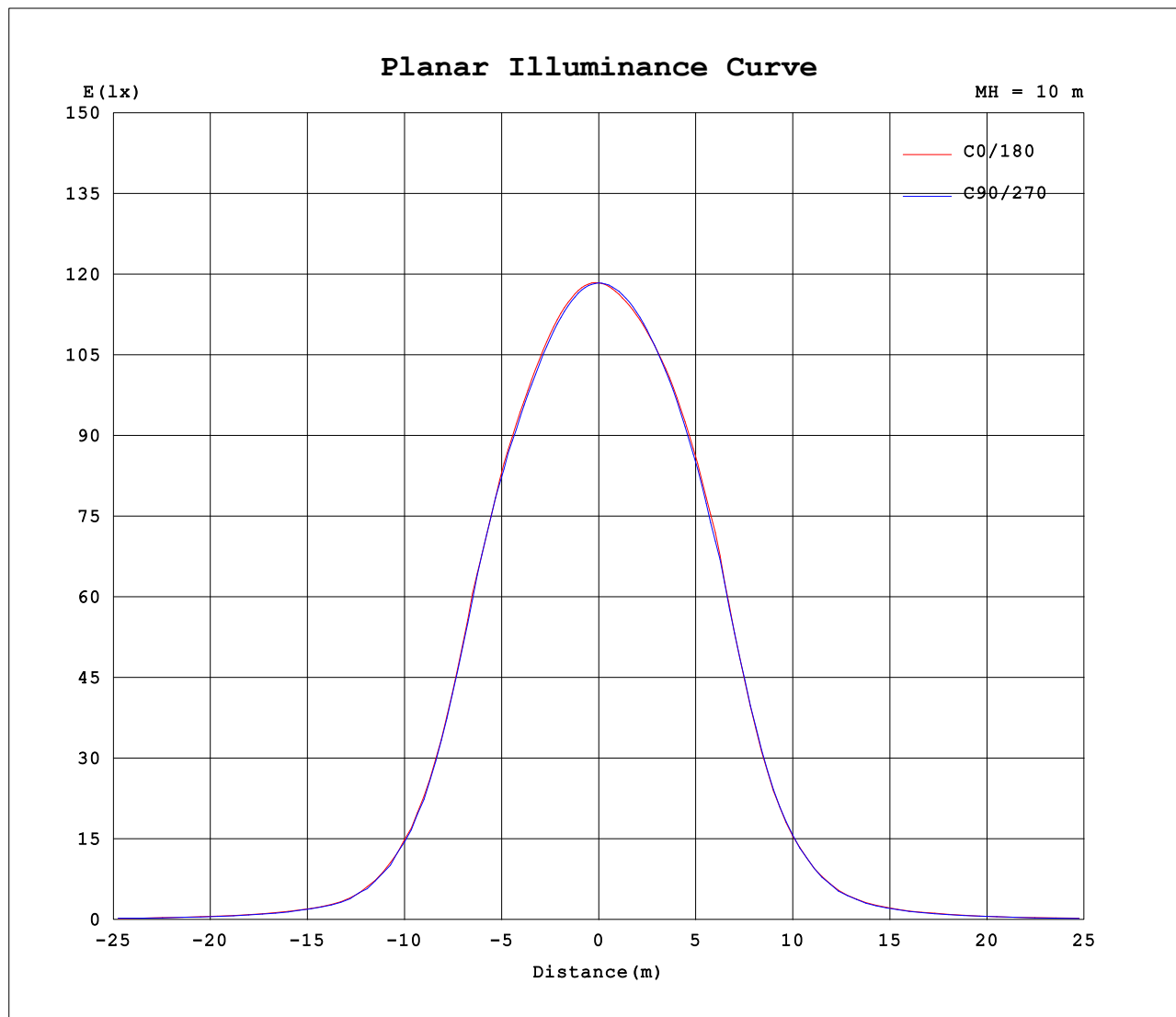


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:1.229A P:147.8W PF:0.9980 Freq:59.98Hz Lamp Flux:21874.5x1 lm		
NAME: H17-RPC-150W-5K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1184	1184	1184	1184	1184	1184	1184	1184										
5	1189	1187	1184	1181	1182	1182	1186	1189										
10	1191	1186	1184	1184	1187	1187	1193	1194										
15	1192	1182	1183	1189	1200	1201	1201	1196										
20	1186	1179	1177	1192	1215	1216	1208	1197										
25	1174	1165	1166	1182	1211	1212	1197	1184										
30	1103	1085	1102	1128	1160	1169	1136	1123										
35	933	901	925	976	970	1008	972	932										
40	666	636	656	713	696	737	703	649										
45	421	395	409	451	441	469	444	400										
50	232	205	217	261	252	266	251	225										
55	130	120	128	145	144	148	139	134										
60	89.3	78.3	83.7	96.5	97.0	98.3	89.7	88.3										
65	60.8	54.3	59.9	67.5	64.4	68.0	60.3	60.1										
70	47.1	43.3	49.6	53.9	54.9	52.9	48.1	47.2										
75	30.8	24.7	25.8	26.8	24.0	26.4	26.5	25.4										
80	13.7	12.4	13.3	13.9	13.6	14.8	13.7	13.0										
85	9.00	8.56	9.11	9.38	8.88	9.81	9.39	8.44										
90	5.78	5.81	6.17	5.87	5.61	5.92	5.79	5.06										
95	4.46	4.55	4.62	4.47	4.27	4.41	4.27	3.94										
100	4.15	4.34	4.46	4.24	4.15	3.98	3.87	3.88										
105	4.57	4.84	4.94	4.69	4.66	4.30	4.18	4.18										
110	5.11	5.46	5.29	5.18	5.31	5.02	4.73	4.81										
115	5.96	6.19	6.22	5.91	5.94	6.08	5.65	5.67										
120	6.64	6.50	6.31	5.99	5.78	6.37	6.55	6.84										
125	6.57	6.52	6.32	6.29	6.41	6.46	6.70	7.42										
130	7.48	7.39	7.35	7.31	7.60	7.49	7.52	7.69										
135	8.16	8.00	8.12	8.05	8.41	8.16	8.23	7.98										
140	8.67	8.46	8.55	8.40	8.78	8.54	8.68	8.27										
145	9.01	8.98	8.97	8.82	9.00	8.82	9.04	8.70										
150	9.00	9.29	9.13	9.10	9.08	9.19	9.08	9.08										
155	9.39	9.46	9.60	9.33	9.53	9.42	9.47	9.40										
160	9.96	9.98	10.2	9.88	10.1	9.97	10.1	10.0										
165	10.6	10.5	10.8	10.5	10.7	10.5	10.7	10.6										
170	11.0	10.8	11.2	11.0	11.2	10.8	11.1	10.9										
175	11.4	11.2	11.6	11.3	11.5	11.0	11.4	11.2										
180	11.8	11.4	11.8	11.5	11.8	11.4	11.8	11.5										

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: