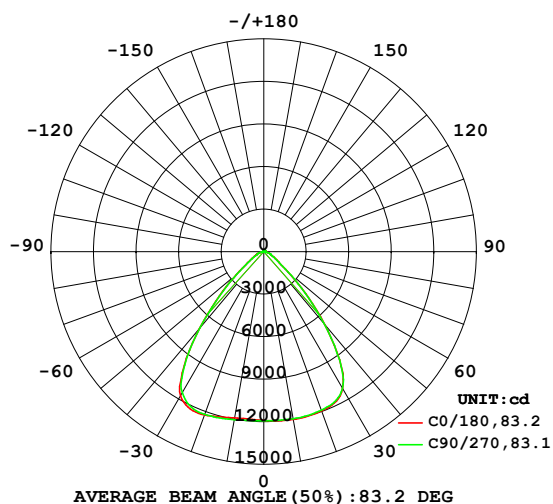


LUMINAIRE PHOTOMETRIC TEST REPORT

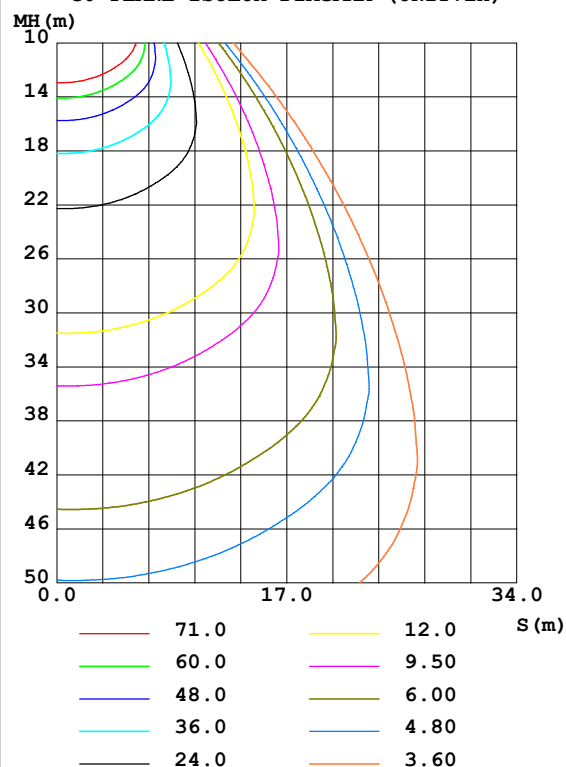
Test:U:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.03 lm/W			
MODEL		I _{max} (cd)	12314	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)	22021	□ UP,DN(C0-180)	1.0,48.2
NOMINAL FLUX(lm)	22021.2	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.9,49.8
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	1202	1198	1197	1195	1191	1192	1203	1208	0- 10	1141	1141	5.18, 5.18
20	1195	1189	1190	1208	1226	1228	1221	1209	10- 20	3414	4555	20.7, 20.7
30	1112	1092	1111	1148	1175	1182	1150	1129	20- 30	5495	10050	45.6, 45.6
40	665.0	639.2	661.0	719.4	702.8	741.1	700.5	651.3	30- 40	5859	15909	72.2, 72.2
50	229.0	211.0	226.5	259.5	253.6	262.7	245.4	222.4	40- 50	3367	19275	87.5, 87.5
60	89.44	78.76	84.32	97.12	96.69	98.27	89.16	88.46	50- 60	1283	20558	93.4, 93.4
70	46.16	43.22	50.03	54.37	54.61	53.42	48.11	47.67	60- 70	639.7	21198	96.3, 96.3
80	13.76	12.30	13.38	13.80	13.44	14.87	13.39	12.80	70- 80	303.7	21502	97.6, 97.6
90	5.781	5.809	6.169	5.870	5.548	5.864	5.629	5.054	80- 90	99.95	21602	98.1, 98.1
100	4.128	4.319	4.428	4.224	4.109	3.960	3.847	3.859	90-100	49.60	21651	98.3, 98.3
110	5.102	5.421	5.264	5.181	5.294	5.002	4.746	4.804	100-110	48.13	21699	98.5, 98.5
120	6.648	6.508	6.309	5.987	5.771	6.376	6.543	6.861	110-120	58.34	21758	98.8, 98.8
130	7.487	7.401	7.350	7.325	7.607	7.503	7.559	7.709	120-130	60.21	21818	99.1, 99.1
140	8.676	8.467	8.559	8.418	8.778	8.535	8.708	8.298	130-140	62.67	21881	99.4, 99.4
150	9.016	9.305	9.154	9.125	9.103	9.175	9.123	9.127	140-150	55.72	21936	99.6, 99.6
160	10.00	10.01	10.25	9.922	10.16	10.00	10.14	10.07	150-160	44.04	21980	99.8, 99.8
170	11.09	10.90	11.29	11.05	11.22	10.89	11.19	10.98	160-170	29.94	22010	100, 100
180	11.86	11.45	11.85	11.55	11.85	11.46	11.84	11.54	170-180	10.78	22021	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

Conical surface Flux(90deg): 17948 lm

%lum = 81.5%

%lamp = 81.5%

Conical surface Flux(120deg): 20558 lm

%lum = 93.4%

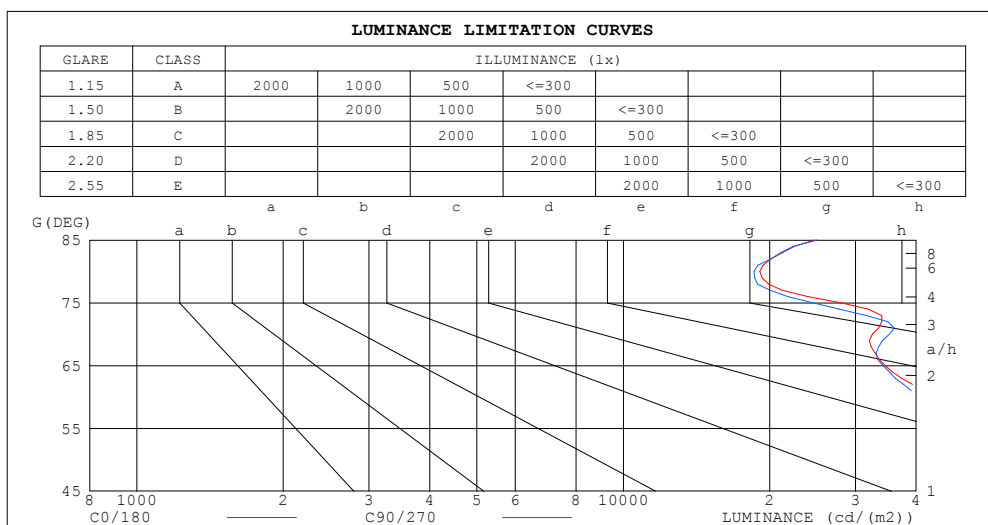
%lamp = 93.4%

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:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-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	24724	25090
80	19088	18569
75	27988	24497
70	32524	35248
65	34487	34207
60	43103	40635
55	54458	53481
50	85830	84915
45	142496	140817

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:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm					
NAME: H17-RPC-150W-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	.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	.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	.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	.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:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm											
NAME: H17-RPC-150W-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	2H	26.2	27.4	26.5	27.6	27.9	26.2	27.4	26.5	27.6	27.8
	3H	26.4	27.5	26.7	27.7	28.0	26.4	27.4	26.7	27.7	27.9
	4H	26.5	27.5	26.8	27.8	28.0	26.4	27.5	26.8	27.7	28.0
	6H	26.5	27.4	26.8	27.7	28.0	26.4	27.4	26.8	27.7	27.9
	8H	26.5	27.4	26.8	27.7	28.0	26.4	27.3	26.8	27.6	27.9
	12H	26.5	27.3	26.8	27.6	28.0	26.4	27.3	26.8	27.6	27.9
4H	2H	26.1	27.1	26.5	27.4	27.7	26.1	27.1	26.4	27.4	27.6
	3H	26.4	27.3	26.8	27.6	27.9	26.4	27.3	26.8	27.6	27.9
	4H	26.6	27.4	27.0	27.7	28.1	26.5	27.3	26.9	27.7	28.0
	6H	26.6	27.3	27.0	27.7	28.1	26.5	27.2	27.0	27.6	28.0
	8H	26.6	27.3	27.0	27.7	28.1	26.6	27.2	27.0	27.6	28.0
	12H	26.6	27.2	27.1	27.6	28.1	26.6	27.2	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	27.1	27.0	27.5	28.0
	8H	26.6	27.1	27.1	27.6	28.0	26.6	27.0	27.1	27.5	28.0
	12H	26.7	27.1	27.2	27.6	28.1	26.7	27.1	27.2	27.5	28.0
12H	4H	26.5	27.1	26.9	27.5	27.9	26.4	27.0	26.9	27.4	27.9
	6H	26.6	27.0	27.1	27.5	28.0	26.5	27.0	27.0	27.4	27.9
	8H	26.6	27.0	27.1	27.5	28.0	26.6	27.0	27.1	27.4	28.0
Variations with the observer position at spacings:											
S = 1.0H	+ 1.6 / - 2.7					+ 1.6 / - 2.7					
1.5H	+ 2.5 / - 2.5					+ 2.5 / - 2.4					
2.0H	+ 3.7 / - 2.3					+ 3.7 / - 2.3					

CIE Pub.117, 22021 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:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

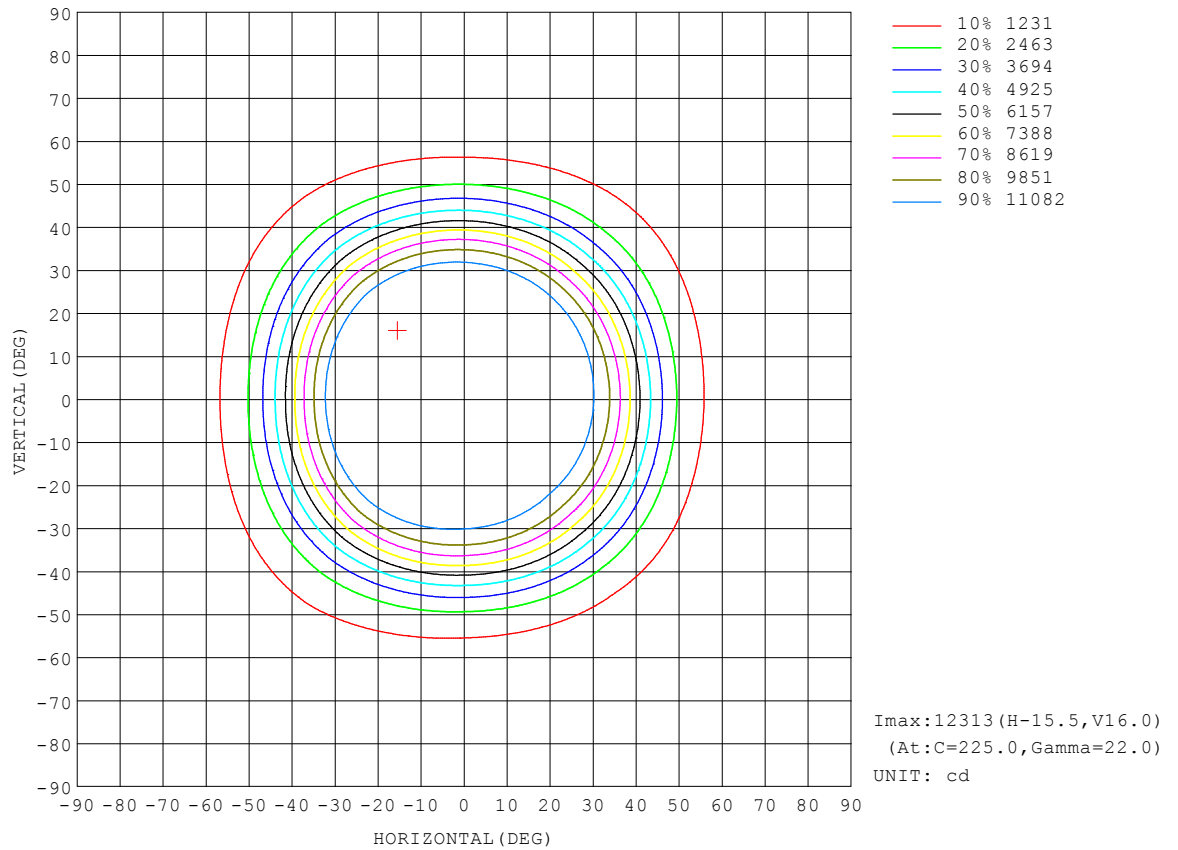
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	70	82	75	70	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:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

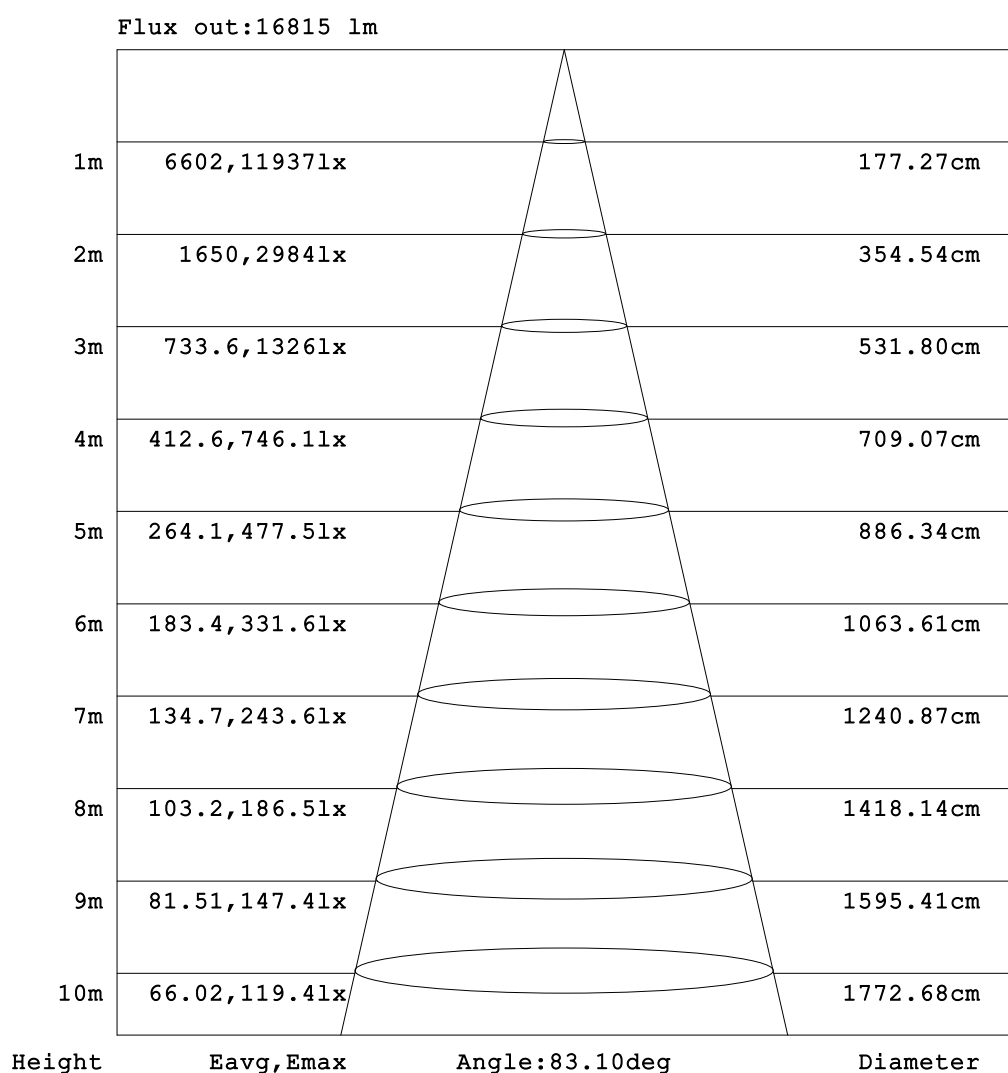


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Marvin Ma
Test Date:2022-09-01

☐ 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:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-4K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAB LIGHTING INC	SUR.:0.23	Shielding Angle:

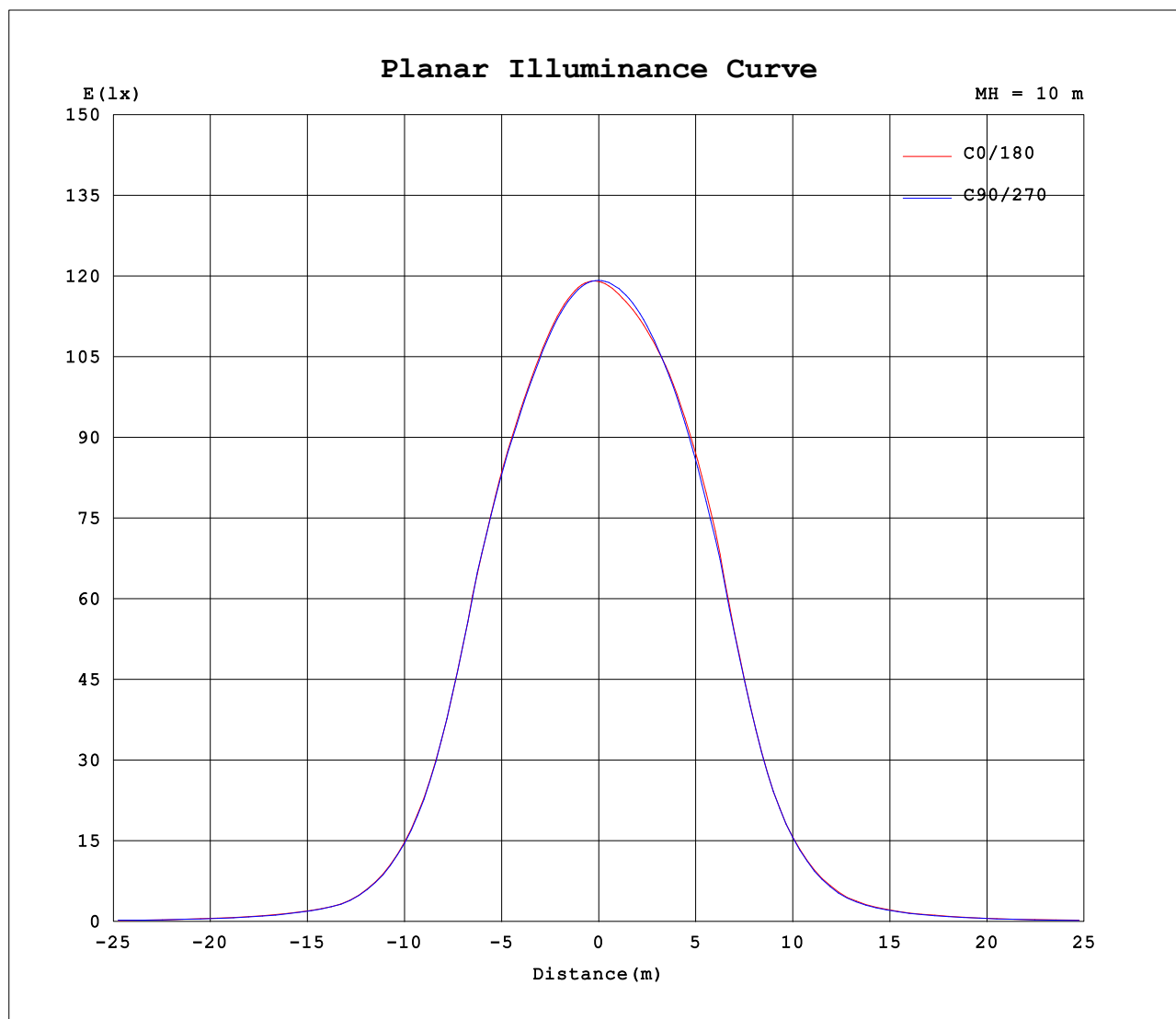


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:1.174A P:141.1W PF:0.9979 Freq:59.98Hz Lamp Flux:22021.2x1 lm		
NAME: H17-RPC-150W-4K	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	1190	1191	1192	1193	1190	1191	1192	1193										
5	1197	1197	1194	1191	1185	1187	1194	1201										
10	1202	1198	1197	1195	1191	1192	1203	1208										
15	1202	1194	1196	1203	1206	1209	1214	1210										
20	1195	1189	1190	1208	1226	1228	1221	1209										
25	1179	1171	1174	1198	1225	1226	1210	1198										
30	1112	1092	1111	1148	1175	1182	1150	1129										
35	933	902	933	990	978	1017	975	935										
40	665	639	661	719	703	741	701	651										
45	418	398	413	455	444	469	443	403										
50	229	211	227	259	254	263	245	222										
55	130	120	127	144	145	149	137	133										
60	89.4	78.8	84.3	97.1	96.7	98.3	89.2	88.5										
65	60.5	54.1	60.0	67.3	64.1	68.2	59.4	60.4										
70	46.2	43.2	50.0	54.4	54.6	53.4	48.1	47.7										
75	30.1	24.8	26.3	26.8	23.7	26.3	25.0	25.1										
80	13.8	12.3	13.4	13.8	13.4	14.9	13.4	12.8										
85	8.94	8.54	9.08	9.35	8.77	9.75	9.05	8.42										
90	5.78	5.81	6.17	5.87	5.55	5.86	5.63	5.05										
95	4.43	4.54	4.61	4.45	4.22	4.38	4.22	3.92										
100	4.13	4.32	4.43	4.22	4.11	3.96	3.85	3.86										
105	4.55	4.82	4.92	4.67	4.63	4.28	4.18	4.17										
110	5.10	5.42	5.26	5.18	5.29	5.00	4.75	4.80										
115	5.94	6.16	6.20	5.90	5.93	6.07	5.68	5.67										
120	6.65	6.51	6.31	5.99	5.77	6.38	6.54	6.86										
125	6.56	6.52	6.32	6.29	6.40	6.46	6.72	7.48										
130	7.49	7.40	7.35	7.33	7.61	7.50	7.56	7.71										
135	8.16	8.02	8.12	8.07	8.42	8.16	8.27	8.03										
140	8.68	8.47	8.56	8.42	8.78	8.53	8.71	8.30										
145	9.02	8.99	8.98	8.84	9.01	8.83	9.07	8.74										
150	9.02	9.31	9.15	9.12	9.10	9.18	9.12	9.13										
155	9.42	9.49	9.63	9.37	9.55	9.48	9.53	9.46										
160	10.0	10.0	10.2	9.92	10.2	10.0	10.1	10.1										
165	10.6	10.5	10.8	10.5	10.8	10.5	10.7	10.6										
170	11.1	10.9	11.3	11.0	11.2	10.9	11.2	11.0										
175	11.5	11.3	11.6	11.4	11.5	11.1	11.4	11.2										
180	11.9	11.5	11.8	11.6	11.9	11.5	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: