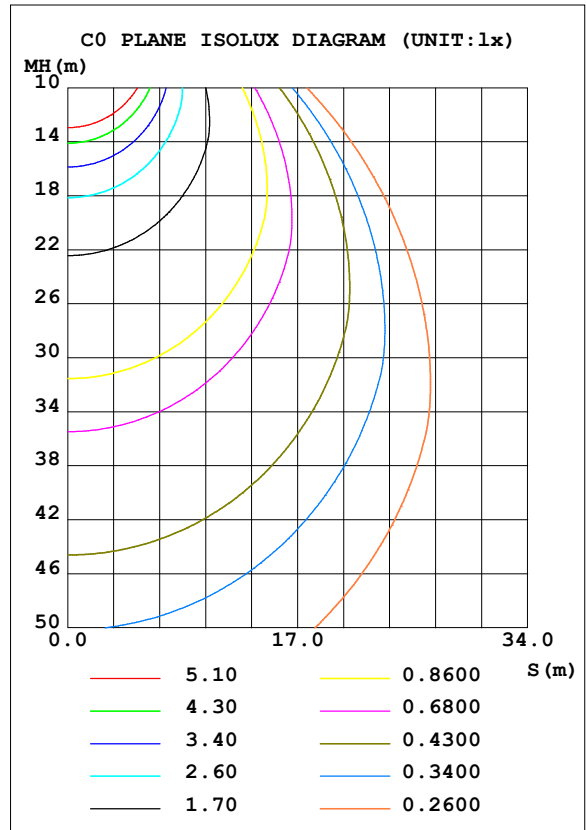
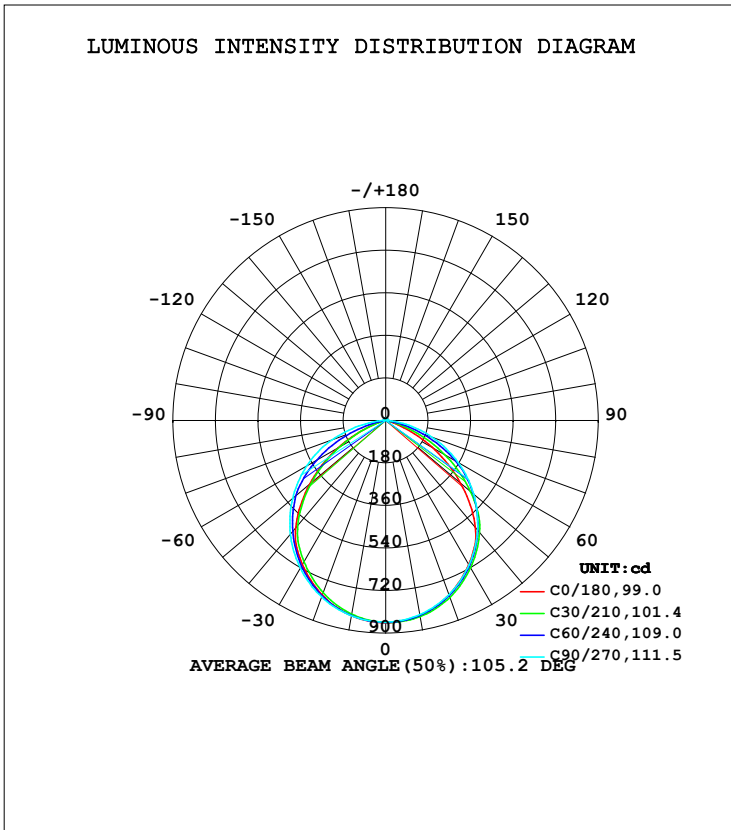


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.48 lm/W			
MODEL		I <sub>max</sub> (cd)	855.7	S/MH (C0/180)	1.23
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2188.7	η UP, DN (C0-180)	0.9, 48.9
NOMINAL FLUX (lm)	2188.74	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.1
LAMPS INSIDE	1	η up (%)	2.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	98.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	837.8	840.0	834.0	832.4	838.2	834.8	839.3	836.6	0- 10	80.66	80.66	3.68,3.68
20	785.3	792.3	784.0	780.7	786.2	782.2	794.5	789.6	10- 20	230.0	310.7	14.2,14.2
30	703.7	714.5	706.4	700.7	705.0	701.7	722.1	713.6	20- 30	345.7	656.4	30,30
40	590.7	612.4	605.0	598.0	592.6	595.6	627.4	614.7	30- 40	412.7	1069	48.8,48.8
50	415.1	476.9	486.4	462.5	421.5	453.8	513.9	486.3	40- 50	415.2	1484	67.8,67.8
60	227.2	313.5	352.7	310.1	234.2	282.3	386.1	328.7	50- 60	346.0	1830	83.6,83.6
70	56.48	138.1	210.1	146.9	63.50	108.3	243.1	149.1	60- 70	218.3	2049	93.6,93.6
80	10.31	19.35	75.07	33.07	11.07	16.88	87.60	19.82	70- 80	80.05	2129	97.3,97.3
90	7.184	8.134	8.853	8.598	7.783	8.685	10.49	8.854	80- 90	16.00	2145	98,98
100	5.420	6.208	7.149	6.510	6.715	7.311	8.131	7.223	90-100	8.273	2153	98.4,98.4
110	4.819	5.213	5.978	5.583	6.582	7.052	7.405	6.780	100-110	6.806	2160	98.7,98.7
120	4.975	5.042	5.599	5.462	6.822	7.223	7.350	6.804	110-120	6.076	2166	99,99
130	5.516	5.371	5.823	5.783	7.217	7.568	7.569	7.086	120-130	5.642	2172	99.2,99.2
140	6.299	6.114	6.509	6.459	7.735	8.034	7.977	7.574	130-140	5.224	2177	99.5,99.5
150	7.357	7.182	7.398	7.391	8.425	8.633	8.517	8.202	140-150	4.677	2181	99.7,99.7
160	8.567	8.361	8.358	8.388	9.236	9.278	9.070	8.831	150-160	3.835	2185	99.8,99.8
170	9.606	9.329	9.145	9.178	9.972	9.775	9.481	9.352	160-170	2.575	2188	100,100
180	10.25	9.883	9.611	9.566	10.25	9.887	9.599	9.566	170-180	0.9172	2189	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1281.1 lm

%lum = 58.5%

%lamp = 58.5%

Conical surface Flux(120deg): 1830.3 lm

%lum = 83.6%

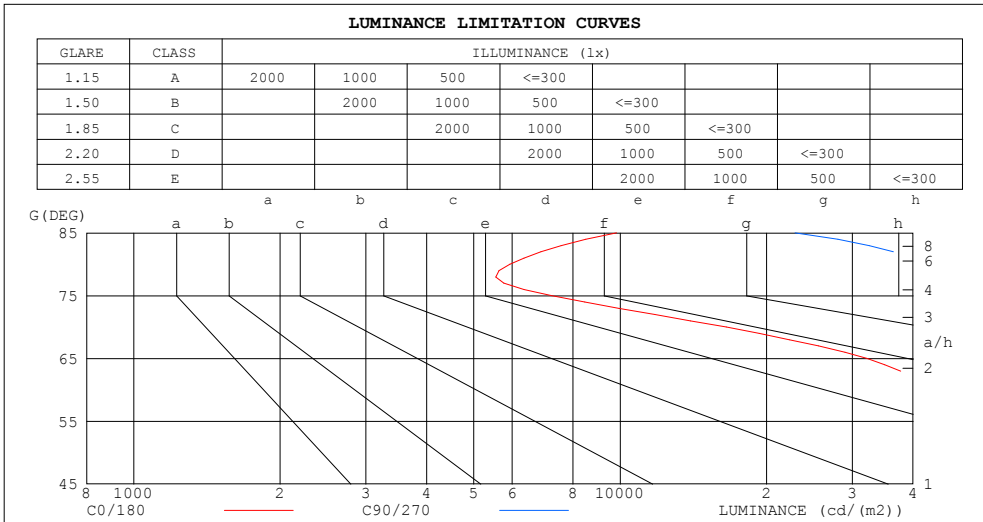
%lamp = 83.6%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9822	22871
80	5937	43230
75	7225	55026
70	16513	61441
65	32142	67001
60	45431	70541
55	56032	73301
50	64573	75664
45	71641	77505

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.275	.156	.049	.267	.152	.048	.253	.145	.046	.240	.138	.044	.228	.132	.043	
2.0	.265	.145	.045	.258	.142	.044	.246	.137	.042	.234	.131	.041	.224	.127	.040	
3.0	.250	.133	.040	.244	.130	.039	.233	.126	.038	.222	.122	.037	.213	.118	.036	
4.0	.233	.121	.036	.228	.119	.035	.218	.116	.035	.209	.112	.034	.201	.109	.033	
5.0	.218	.111	.032	.213	.109	.032	.204	.106	.031	.196	.103	.031	.188	.101	.030	
6.0	.204	.102	.029	.199	.101	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	
7.0	.191	.094	.027	.187	.093	.027	.180	.091	.026	.173	.089	.026	.167	.087	.025	
8.0	.179	.087	.025	.175	.086	.024	.169	.084	.024	.163	.083	.024	.157	.081	.024	
9.0	.168	.081	.023	.165	.081	.023	.159	.079	.022	.154	.077	.022	.149	.076	.022	
10.0	.159	.076	.021	.156	.075	.021	.151	.074	.021	.146	.072	.021	.141	.071	.020	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.206	.206	.206	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.193	.172	.153	.165	.148	.131	.113	.101	.091	.065	.059	.053	.021	.019	.017	
2.0	.184	.148	.117	.158	.127	.101	.108	.088	.070	.062	.051	.041	.020	.017	.013	
3.0	.176	.130	.093	.151	.112	.080	.104	.078	.056	.060	.045	.033	.019	.015	.011	
4.0	.169	.116	.076	.145	.101	.066	.100	.070	.047	.058	.041	.028	.019	.013	.009	
5.0	.161	.106	.065	.139	.092	.056	.096	.064	.040	.055	.038	.024	.018	.012	.008	
6.0	.155	.097	.056	.133	.084	.049	.092	.059	.035	.053	.035	.021	.017	.011	.007	
7.0	.148	.091	.050	.127	.078	.044	.088	.055	.031	.051	.032	.018	.017	.011	.006	
8.0	.142	.085	.045	.122	.074	.040	.085	.052	.028	.049	.030	.017	.016	.010	.006	
9.0	.136	.080	.042	.117	.069	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
10.0	.131	.076	.039	.113	.066	.034	.078	.046	.024	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm										
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:4寸			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	24.0	25.4	24.3	25.6	25.9	25.1	26.6	25.4	26.8	27.0
3H	24.3	25.6	24.6	25.9	26.1	26.4	27.7	26.8	28.0	28.3
4H	24.2	25.5	24.6	25.8	26.0	26.9	28.1	27.2	28.4	28.7
6H	24.1	25.3	24.5	25.6	25.9	27.1	28.3	27.5	28.6	28.9
8H	24.1	25.2	24.5	25.5	25.9	27.2	28.3	27.6	28.6	28.9
12H	24.1	25.1	24.4	25.5	25.8	27.2	28.3	27.6	28.6	28.9
4H 2H	24.5	25.8	24.9	26.0	26.3	25.5	26.7	25.8	27.0	27.3
3H	25.0	26.0	25.3	26.4	26.7	26.9	28.0	27.3	28.3	28.6
4H	24.9	25.9	25.3	26.3	26.6	27.4	28.4	27.8	28.7	29.1
6H	24.9	25.7	25.3	26.1	26.5	27.7	28.6	28.1	29.0	29.4
8H	24.8	25.6	25.3	26.0	26.5	27.8	28.6	28.2	29.0	29.4
12H	24.8	25.5	25.3	26.0	26.4	27.8	28.5	28.2	28.9	29.4
8H 4H	25.0	25.8	25.5	26.2	26.6	27.4	28.1	27.8	28.5	29.0
6H	25.0	25.6	25.4	26.1	26.5	27.7	28.3	28.2	28.8	29.2
8H	25.0	25.5	25.4	26.0	26.5	27.8	28.4	28.3	28.8	29.3
12H	24.9	25.4	25.5	25.9	26.4	27.8	28.3	28.3	28.8	29.3
12H 4H	25.0	25.7	25.4	26.1	26.6	27.3	28.0	27.8	28.4	28.9
6H	25.0	25.5	25.4	26.0	26.5	27.7	28.2	28.1	28.7	29.2
8H	24.9	25.4	25.4	25.9	26.4	27.7	28.2	28.2	28.7	29.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.2 / - 0.3				
1.5H	+ 0.4 / - 0.8					+ 0.2 / - 0.3				
2.0H	+ 0.6 / - 1.4					+ 0.4 / - 0.5				

CIE Pub.117, 2189 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.7)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

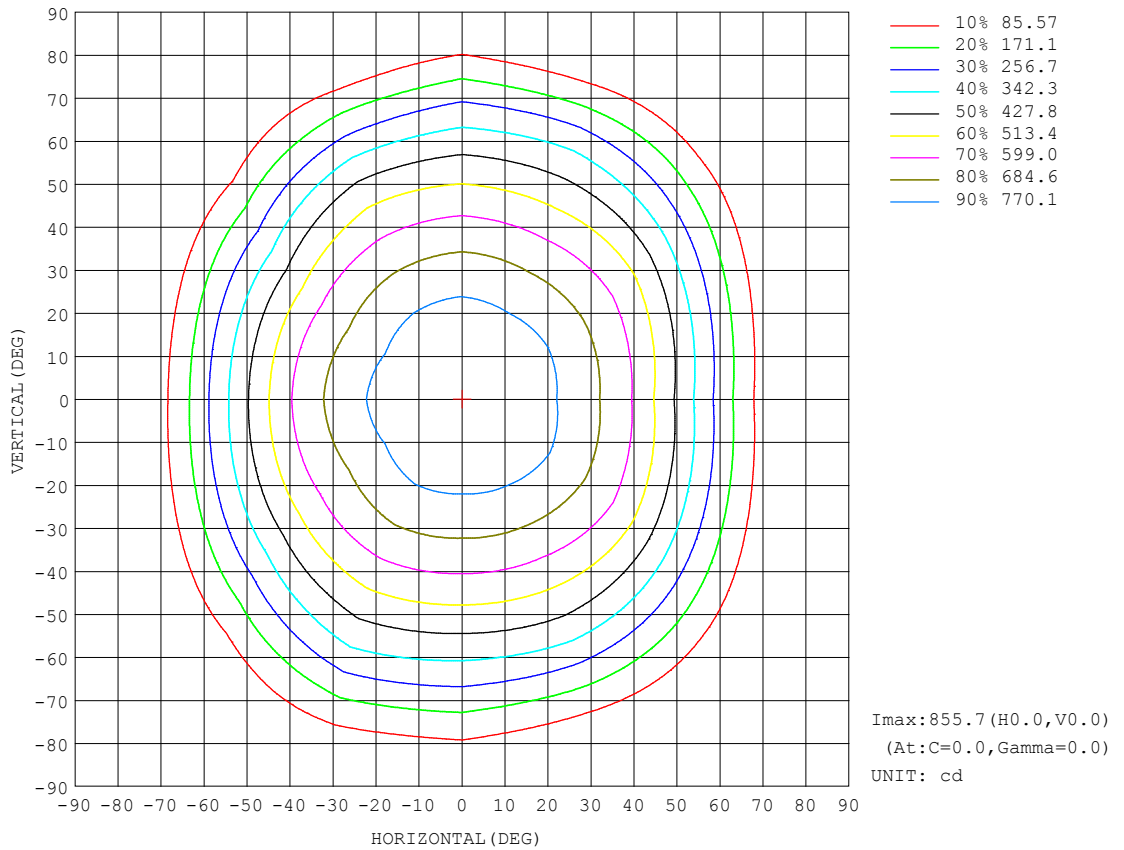
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	57	48	41	35
0.80	70	59	52	69	58	52	67	57	51	45
1.00	78	68	61	77	67	61	75	68	60	53
1.25	86	76	69	84	75	69	81	73	68	61
1.50	90	81	75	89	80	74	86	78	73	66
2.00	97	89	83	95	88	82	91	85	81	73
2.50	100	93	88	98	92	87	94	89	85	77
3.00	104	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	100	97	93	84
5.00	109	105	101	107	103	100	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

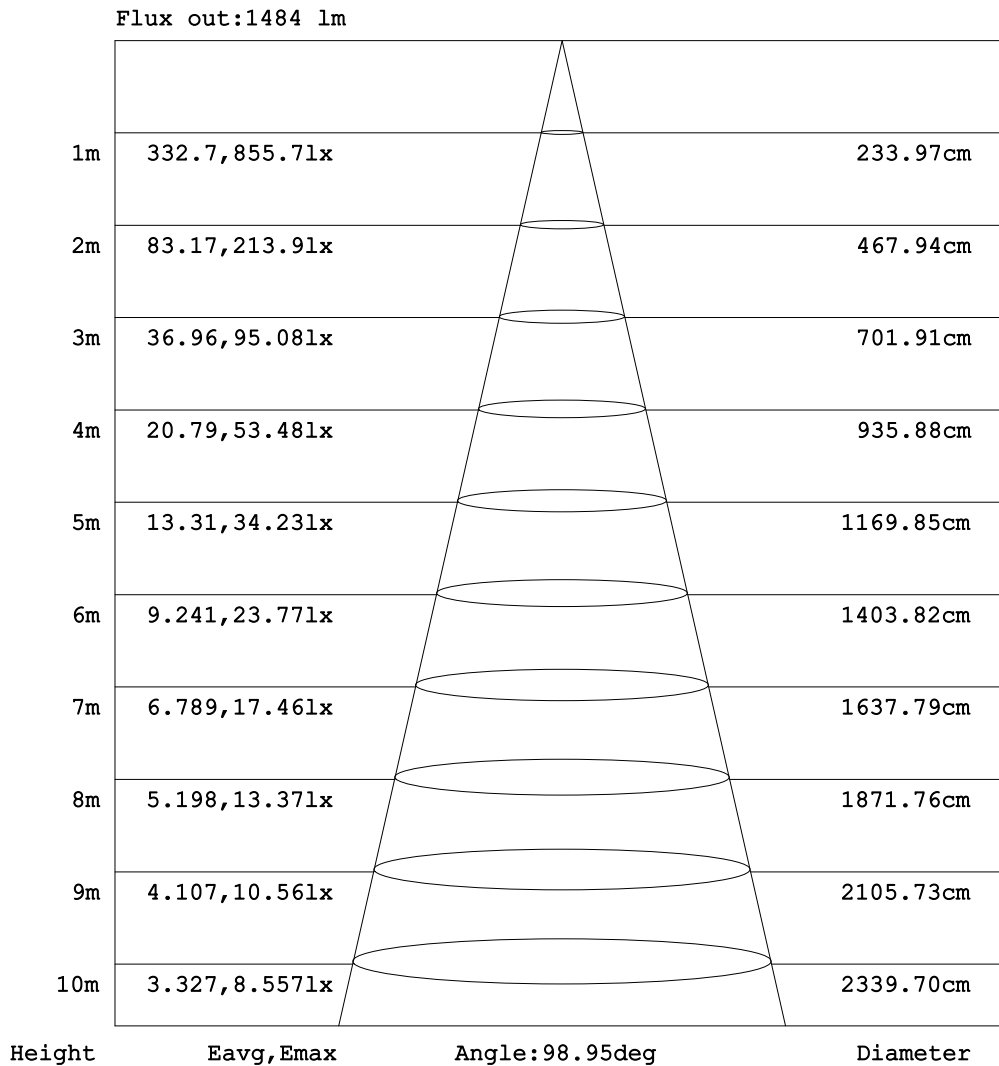


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

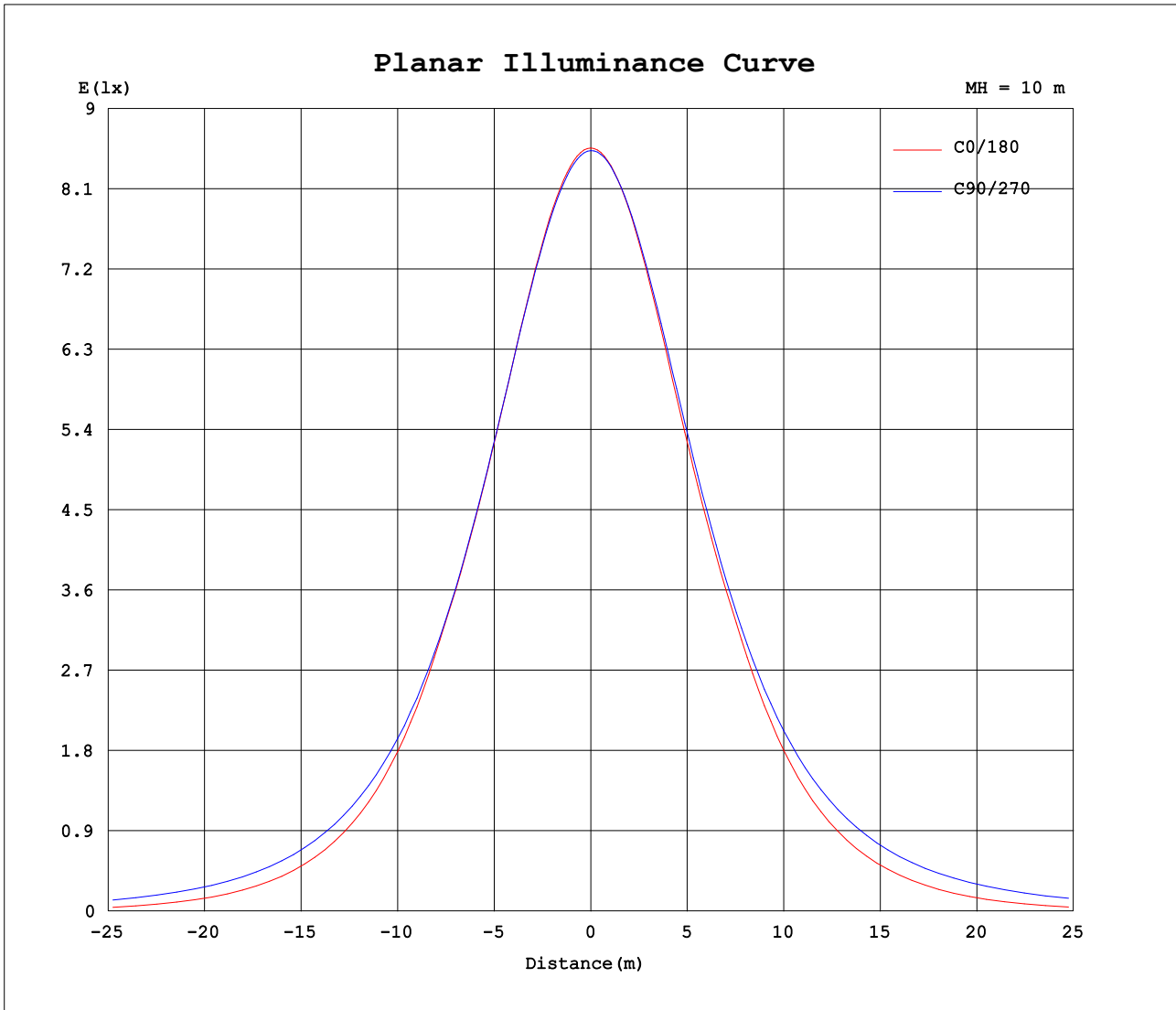


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.3090A P:36.80W PF:0.9880 Freq:60.00Hz Lamp Flux:2188.74x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	856	855	854	853	852	851	856	855	854	853	852	851							
5	851	853	850	848	848	844	851	848	850	850	848	848							
10	838	843	837	834	835	829	838	832	838	839	836	837							
15	815	824	817	813	815	806	817	807	818	821	816	818							
20	785	797	788	784	787	774	786	775	789	794	788	791							
25	747	761	752	748	752	736	748	735	754	761	753	757							
30	704	719	710	706	710	691	705	691	712	722	712	715							
35	655	671	661	658	663	642	657	642	664	678	665	668							
40	591	618	607	605	609	587	593	579	612	627	613	616							
45	507	554	547	548	552	515	511	499	556	573	555	559							
50	415	470	484	486	491	434	421	411	496	514	493	479							
55	321	379	418	420	427	348	328	319	422	451	429	390							
60	227	287	340	353	360	261	234	226	339	386	361	297							
65	136	195	254	283	283	172	142	134	251	318	282	203							
70	56.5	108	168	210	202	91.7	63.5	56.0	161	243	187	111							
75	18.7	40.1	87.7	142	124	34.5	22.3	19.1	74.3	163	97.6	38.4							
80	10.3	13.2	25.5	75.1	53.2	13.0	11.1	11.1	22.6	87.6	26.5	13.1							
85	8.56	9.36	9.74	19.9	13.8	9.38	9.07	9.00	12.3	25.3	10.9	10.0							
90	7.18	7.90	8.37	8.85	9.43	7.77	7.78	7.83	9.54	10.5	9.31	8.40							
95	6.15	6.75	7.38	7.92	8.01	6.69	7.07	7.21	8.32	9.11	8.18	7.46							
100	5.42	5.86	6.56	7.15	7.10	5.92	6.71	6.92	7.70	8.13	7.51	6.94							
105	5.00	5.26	5.91	6.49	6.40	5.46	6.59	6.83	7.38	7.63	7.15	6.68							
110	4.82	4.94	5.49	5.98	5.92	5.25	6.58	6.85	7.26	7.41	6.98	6.58							
115	4.82	4.83	5.26	5.70	5.68	5.21	6.67	6.95	7.26	7.33	6.93	6.58							
120	4.98	4.88	5.21	5.60	5.62	5.31	6.82	7.11	7.33	7.35	6.97	6.64							
125	5.21	5.02	5.29	5.65	5.68	5.49	7.01	7.30	7.46	7.43	7.07	6.76							
130	5.52	5.26	5.48	5.82	5.83	5.73	7.22	7.50	7.63	7.57	7.23	6.94							
135	5.88	5.57	5.80	6.12	6.11	6.05	7.45	7.74	7.84	7.75	7.46	7.16							
140	6.30	6.00	6.23	6.51	6.48	6.44	7.73	7.99	8.08	7.98	7.71	7.44							
145	6.80	6.51	6.73	6.95	6.92	6.89	8.04	8.27	8.35	8.24	8.00	7.75							
150	7.36	7.09	7.27	7.40	7.38	7.40	8.42	8.60	8.67	8.52	8.30	8.11							
155	7.96	7.74	7.82	7.88	7.87	7.93	8.82	8.94	8.97	8.80	8.56	8.47							
160	8.57	8.38	8.34	8.36	8.34	8.44	9.24	9.28	9.28	9.07	8.84	8.83							
165	9.12	8.96	8.81	8.78	8.76	8.88	9.63	9.59	9.54	9.30	9.08	9.15							
170	9.61	9.44	9.22	9.15	9.11	9.24	9.97	9.82	9.73	9.48	9.30	9.40							
175	10.00	9.78	9.55	9.42	9.35	9.52	10.2	9.97	9.82	9.59	9.43	9.57							
180	10.2	9.99	9.78	9.61	9.48	9.65	10.3	9.99	9.79	9.60	9.49	9.64							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-06-30

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks: