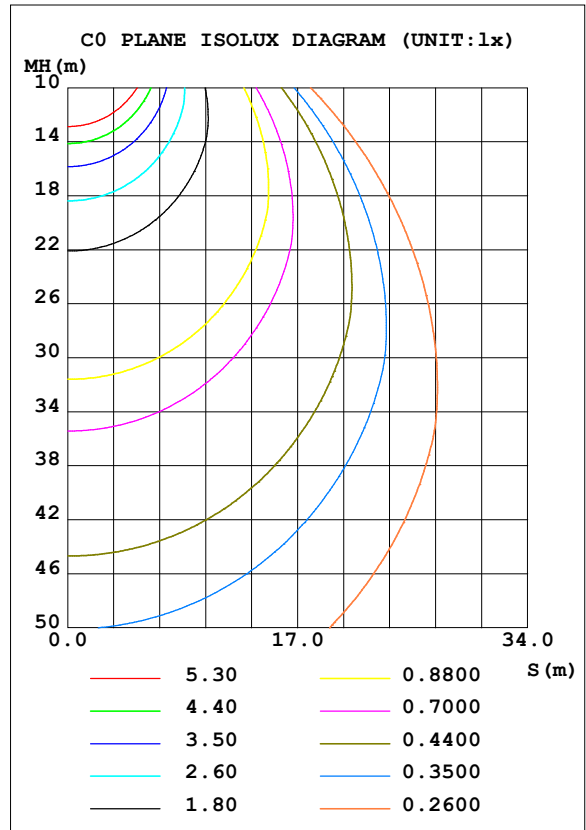
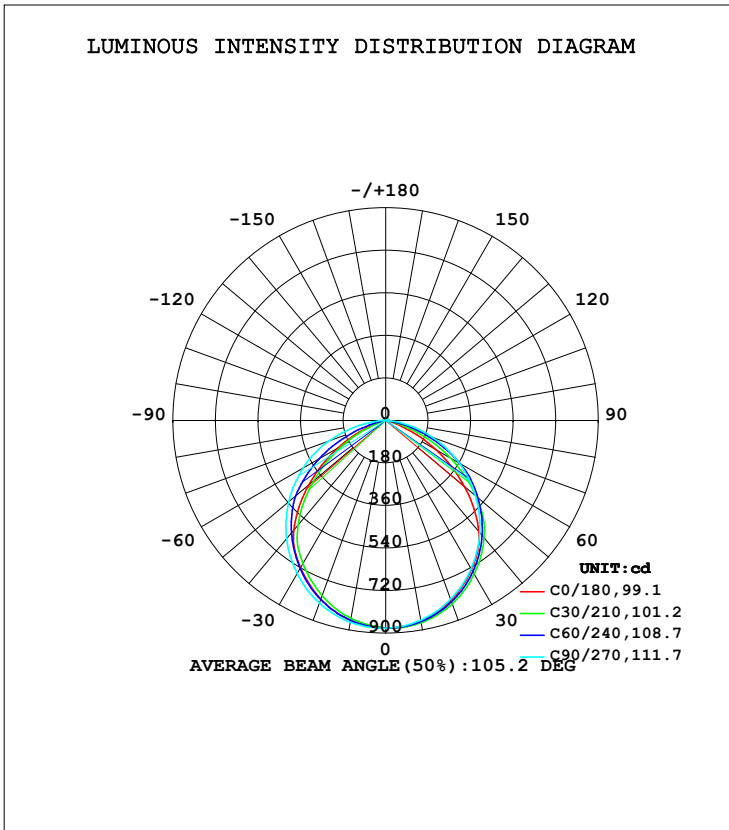


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.89 lm/W			
MODEL		I _{max} (cd)	879.2	S/MH (C0/180)	1.23
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2252.9	η UP, DN (C0-180)	0.9, 49.1
NOMINAL FLUX (lm)	2252.94	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 48.9
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	861.9	866.5	857.6	856.7	858.8	854.2	866.3	866.2	0- 10	83.02	83.02	3.68,3.68
20	810.1	821.1	804.9	801.5	804.3	797.2	821.8	820.2	10- 20	236.8	319.8	14.2,14.2
30	727.5	744.1	723.9	717.8	720.8	712.5	749.0	744.2	20- 30	356.2	676.0	30,30
40	613.6	641.6	619.5	610.2	604.3	599.1	652.5	643.2	30- 40	425.4	1101	48.9,48.9
50	436.4	505.3	496.4	467.9	425.8	447.7	536.3	513.2	40- 50	427.8	1529	67.9,67.9
60	242.6	337.9	358.8	309.5	233.6	266.0	404.2	351.6	50- 60	355.9	1885	83.7,83.7
70	62.02	155.2	211.4	141.8	62.62	93.04	257.8	165.9	60- 70	224.1	2109	93.6,93.6
80	10.71	23.55	72.78	30.53	11.20	14.80	96.54	23.06	70- 80	82.50	2192	97.3,97.3
90	7.427	8.491	8.920	8.619	7.905	8.621	10.95	9.262	80- 90	16.41	2208	98,98
100	5.541	6.385	7.192	6.536	6.860	7.403	8.413	7.471	90-100	8.455	2217	98.4,98.4
110	4.882	5.264	5.998	5.634	6.747	7.205	7.621	6.976	100-110	6.940	2224	98.7,98.7
120	4.999	5.025	5.626	5.532	6.994	7.407	7.546	6.976	110-120	6.185	2230	99,99
130	5.535	5.321	5.874	5.875	7.394	7.771	7.757	7.254	120-130	5.733	2235	99.2,99.2
140	6.322	6.036	6.583	6.582	7.927	8.242	8.161	7.736	130-140	5.307	2241	99.5,99.5
150	7.400	7.125	7.512	7.546	8.628	8.843	8.701	8.365	140-150	4.750	2245	99.7,99.7
160	8.638	8.359	8.483	8.565	9.435	9.478	9.266	9.004	150-160	3.896	2249	99.8,99.8
170	9.723	9.399	9.306	9.376	10.16	9.954	9.669	9.532	160-170	2.618	2252	100,100
180	10.40	10.01	9.787	9.758	10.39	10.01	9.791	9.760	170-180	0.9326	2253	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1319.8 lm

%lum = 58.6%
%lamp = 58.6%

Conical surface Flux(120deg): 1885.1 lm

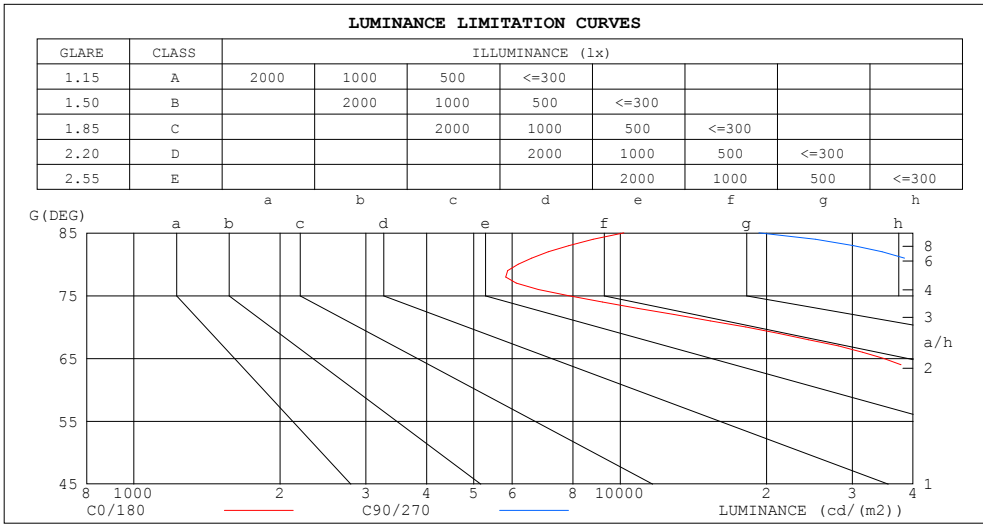
%lum = 83.7%
%lamp = 83.7%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10173	19279
80	6167	41913
75	7813	54793
70	18135	61823
65	34783	67732
60	48520	71765
55	59293	74794
50	67888	77232
45	74806	79180

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:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm						
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K			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	.126	.040	
3.0	.249	.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	.152	.165	.147	.131	.113	.101	.091	.065	.059	.053	.021	.019	.017	
2.0	.184	.147	.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	.168	.116	.076	.145	.100	.066	.099	.070	.047	.058	.041	.028	.019	.013	.009	
5.0	.161	.106	.065	.139	.091	.056	.095	.064	.040	.055	.038	.024	.018	.012	.008	
6.0	.154	.097	.056	.133	.084	.049	.092	.059	.035	.053	.035	.021	.017	.011	.007	
7.0	.148	.090	.050	.127	.078	.044	.088	.055	.031	.051	.032	.018	.017	.011	.006	
8.0	.142	.085	.045	.122	.073	.039	.084	.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	.075	.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:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm										
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K					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	24.2	25.6	24.5	25.9	26.1	25.2	26.6	25.5	26.9	27.1
3H	24.6	25.9	24.9	26.2	26.4	26.5	27.8	26.8	28.1	28.3
4H	24.5	25.8	24.9	26.1	26.4	26.9	28.2	27.3	28.5	28.7
6H	24.5	25.6	24.8	25.9	26.2	27.2	28.3	27.5	28.6	28.9
8H	24.4	25.5	24.8	25.8	26.2	27.2	28.3	27.6	28.6	29.0
12H	24.4	25.4	24.8	25.8	26.1	27.2	28.3	27.6	28.6	28.9
4H 2H	24.8	26.0	25.1	26.3	26.6	25.6	26.9	26.0	27.1	27.4
3H	25.3	26.4	25.7	26.7	27.1	27.0	28.1	27.4	28.4	28.8
4H	25.3	26.3	25.7	26.6	27.0	27.5	28.5	27.9	28.9	29.2
6H	25.2	26.1	25.7	26.5	26.9	27.8	28.7	28.2	29.1	29.5
8H	25.2	26.0	25.6	26.4	26.8	27.9	28.7	28.3	29.1	29.5
12H	25.2	25.9	25.6	26.3	26.8	27.9	28.6	28.3	29.0	29.5
8H 4H	25.4	26.2	25.9	26.6	27.0	27.5	28.3	27.9	28.7	29.1
6H	25.4	26.0	25.8	26.5	26.9	27.8	28.5	28.3	28.9	29.4
8H	25.3	25.9	25.8	26.4	26.9	27.9	28.5	28.4	28.9	29.4
12H	25.3	25.8	25.8	26.3	26.8	27.9	28.4	28.4	28.9	29.4
12H 4H	25.4	26.1	25.8	26.5	27.0	27.5	28.2	27.9	28.6	29.0
6H	25.3	25.9	25.8	26.4	26.9	27.8	28.4	28.3	28.8	29.3
8H	25.3	25.8	25.8	26.3	26.8	27.9	28.3	28.4	28.8	29.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.2 / - 0.3				
1.5H	+ 0.5 / - 0.8					+ 0.3 / - 0.4				
2.0H	+ 0.6 / - 1.4					+ 0.3 / - 0.4				

CIE Pub.117, 2253 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.8)

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:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

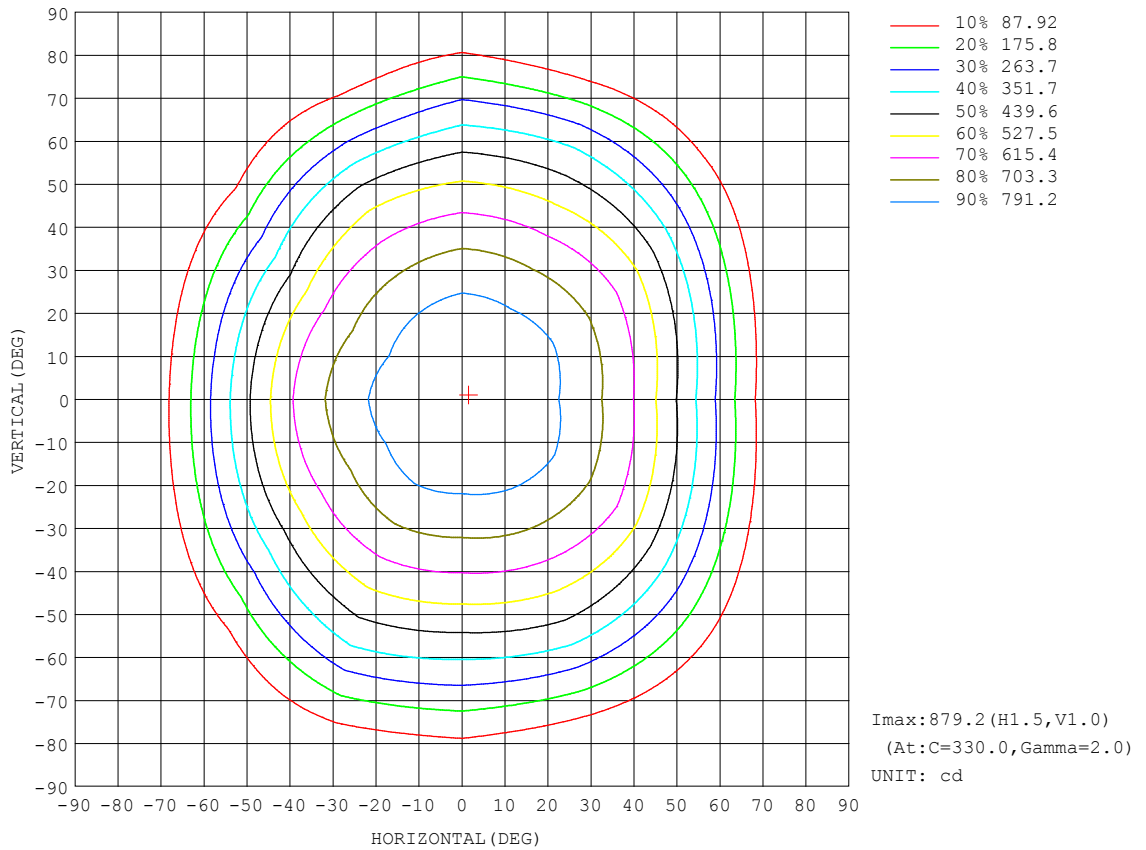
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	58	52	67	58	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

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:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

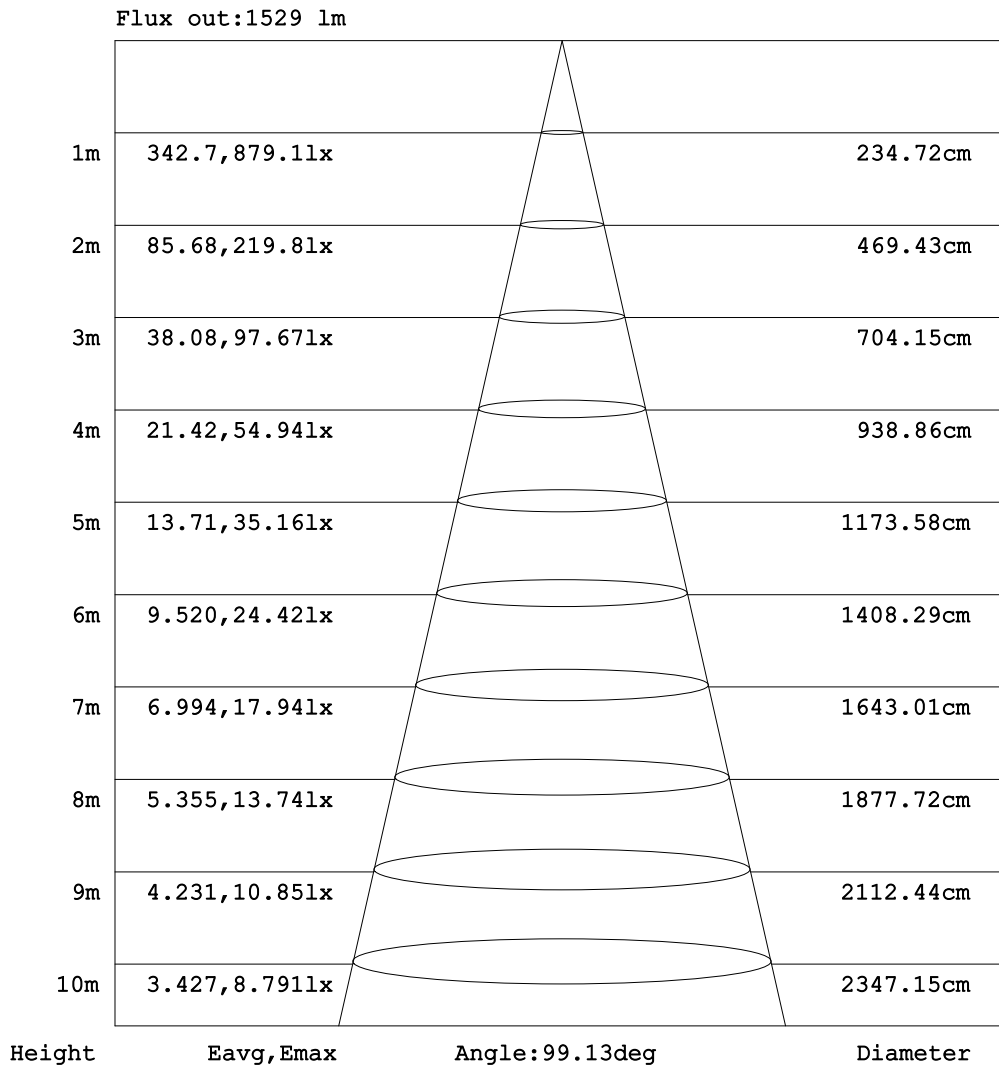


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-30

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:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

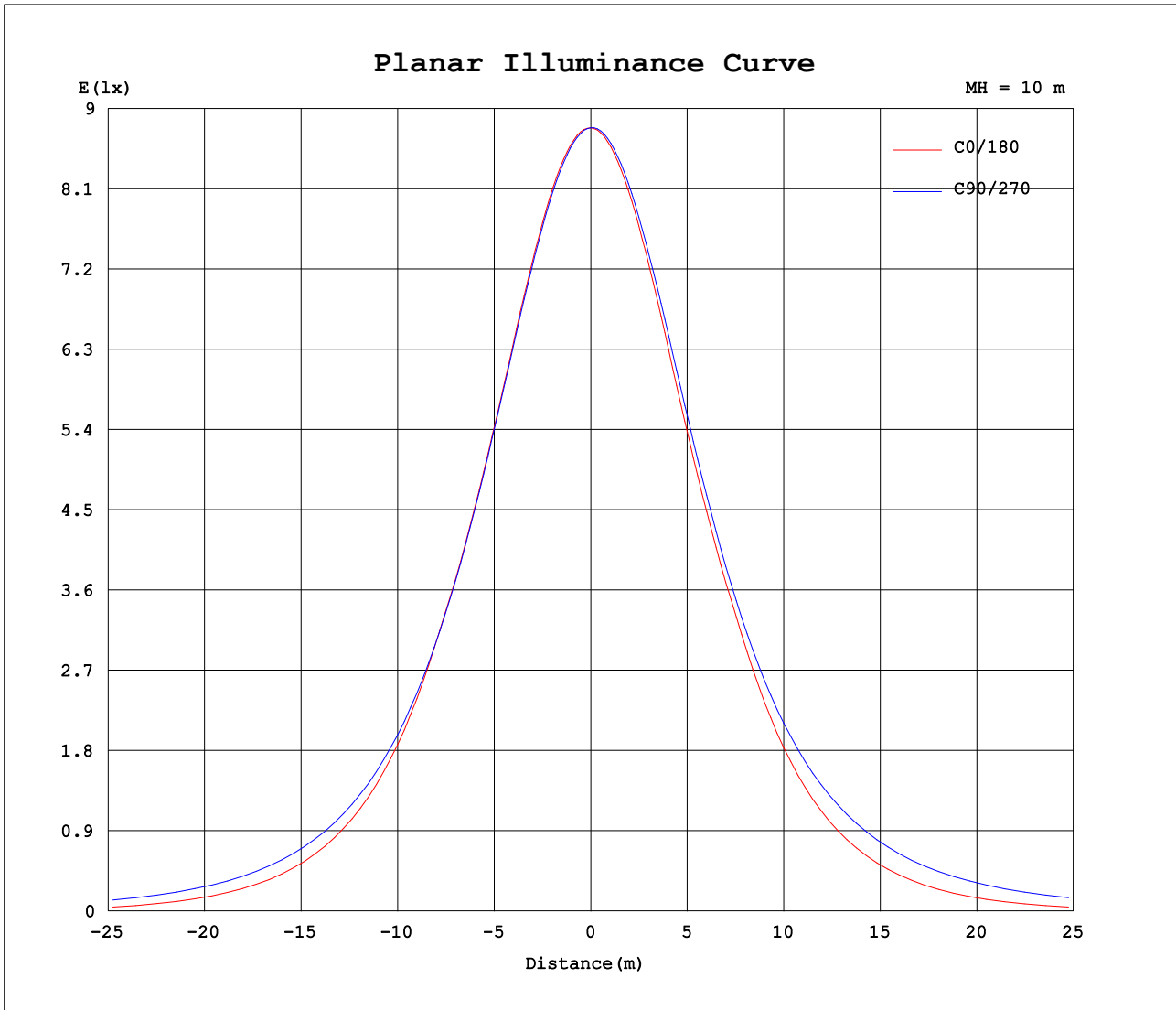


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3100A P:37.00W PF:0.9880 Freq:60.00Hz Lamp Flux:2252.94x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 5000K	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	878	877	879	879	879	878	878	877	879	879	879	878							
5	875	878	876	872	874	870	873	868	873	877	876	878							
10	862	869	864	858	860	853	859	850	859	866	864	868							
15	840	852	844	835	838	828	836	823	836	848	844	850							
20	810	826	817	805	809	794	804	788	806	822	817	824							
25	771	791	781	768	772	753	765	747	769	789	782	789							
30	728	749	739	724	729	707	721	701	724	749	741	748							
35	678	702	690	675	679	656	671	649	674	704	693	700							
40	614	648	635	619	623	597	604	577	621	652	640	647							
45	529	584	574	560	564	520	519	492	562	597	581	588							
50	436	500	510	496	501	435	426	399	496	536	517	509							
55	340	409	443	429	435	345	330	303	414	472	450	419							
60	243	314	362	359	365	254	234	207	325	404	380	323							
65	147	217	273	286	285	164	140	114	233	334	300	225							
70	62.0	127	184	211	201	83.0	62.6	44.6	142	258	204	128							
75	20.2	49.9	99.2	142	120	30.3	22.0	15.7	58.0	175	108	46.5							
80	10.7	15.7	31.4	72.8	48.6	12.5	11.2	10.7	18.9	96.5	31.3	14.8							
85	8.87	9.87	10.2	16.8	13.8	9.33	9.20	8.82	11.8	29.0	11.5	10.6							
90	7.43	8.30	8.68	8.92	9.49	7.75	7.90	7.80	9.44	11.0	9.71	8.82							
95	6.33	7.04	7.61	7.98	8.09	6.67	7.21	7.26	8.34	9.46	8.48	7.77							
100	5.54	6.06	6.71	7.19	7.15	5.92	6.86	7.03	7.78	8.41	7.76	7.19							
105	5.08	5.38	6.01	6.51	6.45	5.49	6.74	6.96	7.50	7.87	7.37	6.90							
110	4.88	5.00	5.53	6.00	5.98	5.29	6.75	7.01	7.40	7.62	7.17	6.78							
115	4.87	4.85	5.28	5.72	5.74	5.27	6.84	7.13	7.42	7.53	7.12	6.76							
120	5.00	4.86	5.19	5.63	5.69	5.38	6.99	7.30	7.51	7.55	7.14	6.81							
125	5.23	4.98	5.24	5.69	5.74	5.56	7.18	7.49	7.65	7.62	7.25	6.93							
130	5.54	5.21	5.43	5.87	5.93	5.82	7.39	7.71	7.83	7.76	7.41	7.10							
135	5.89	5.52	5.74	6.18	6.19	6.17	7.64	7.95	8.04	7.94	7.62	7.32							
140	6.32	5.92	6.15	6.58	6.59	6.58	7.93	8.21	8.28	8.16	7.88	7.60							
145	6.83	6.43	6.66	7.04	7.05	7.05	8.25	8.49	8.55	8.42	8.17	7.92							
150	7.40	7.03	7.22	7.51	7.52	7.57	8.63	8.82	8.86	8.70	8.46	8.27							
155	8.02	7.70	7.80	8.01	8.02	8.11	9.02	9.16	9.17	8.99	8.73	8.63							
160	8.64	8.37	8.35	8.48	8.50	8.63	9.44	9.50	9.46	9.27	9.00	9.00							
165	9.21	8.99	8.86	8.93	8.93	9.08	9.83	9.79	9.71	9.50	9.26	9.33							
170	9.72	9.51	9.29	9.31	9.30	9.45	10.2	10.0	9.89	9.67	9.47	9.59							
175	10.1	9.89	9.64	9.60	9.53	9.72	10.4	10.1	9.96	9.78	9.62	9.76							
180	10.4	10.1	9.90	9.79	9.67	9.85	10.4	10.1	9.90	9.79	9.67	9.85							

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: