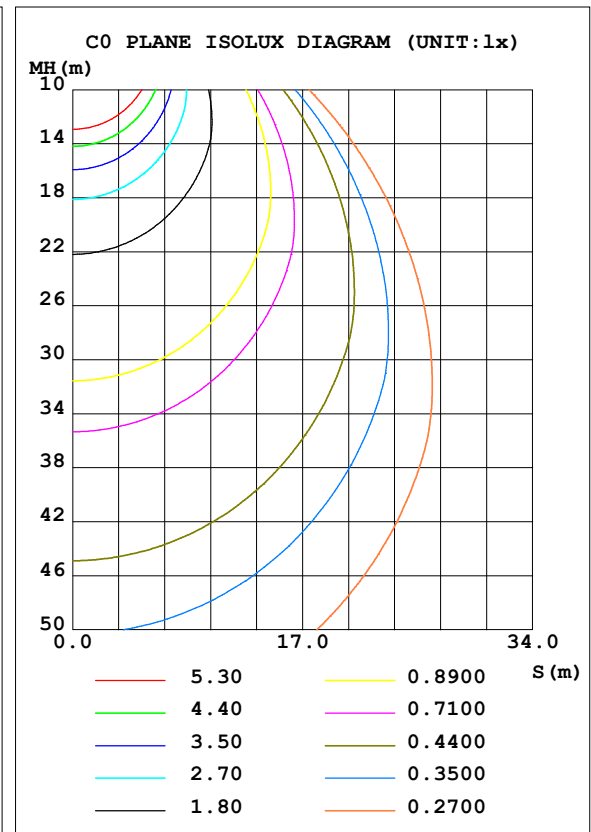
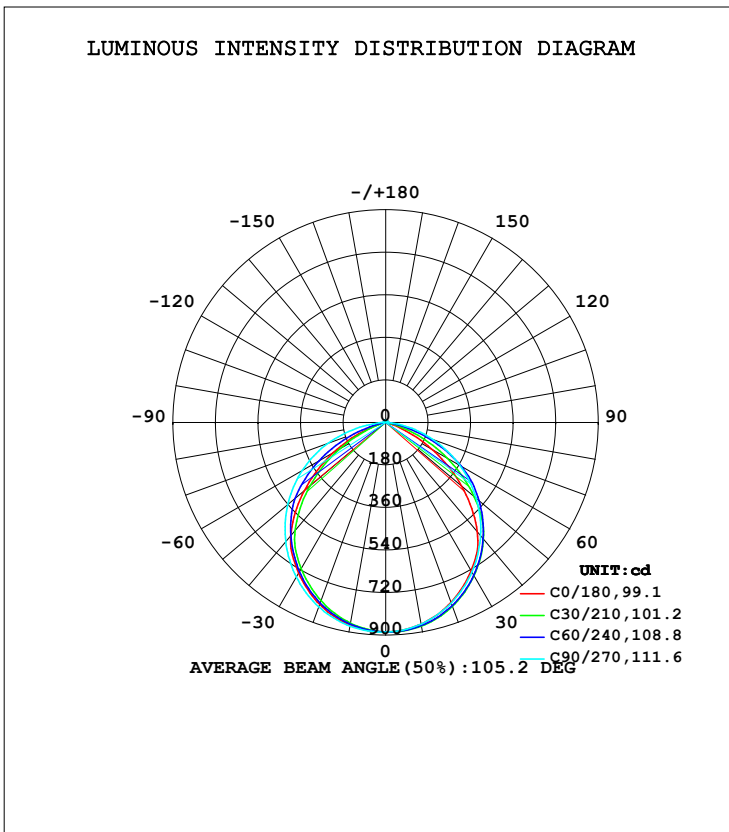


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.11 lm/W			
MODEL		I _{max} (cd)	888.0	S/MH (C0/180)	1.24
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2273.1	η UP, DN (C0-180)	0.9, 49.0
NOMINAL FLUX (lm)	2273.06	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	865.9	873.5	866.0	867.4	870.4	863.9	874.5	872.5	0- 10	83.83	83.83	3.69,3.69
20	810.1	826.3	812.5	813.5	819.0	807.4	829.6	824.0	10- 20	239.1	322.9	14.2,14.2
30	724.1	747.2	730.6	730.2	736.7	722.6	756.0	745.2	20- 30	359.5	682.4	30,30
40	602.8	642.8	624.9	623.7	625.4	610.8	658.4	641.8	30- 40	429.3	1112	48.9,48.9
50	420.1	502.6	500.7	482.0	449.0	459.7	541.1	507.5	40- 50	431.8	1544	67.9,67.9
60	224.7	333.5	361.6	322.6	256.4	276.9	408.0	343.2	50- 60	359.0	1903	83.7,83.7
70	50.65	150.2	212.9	152.5	75.27	98.08	260.4	155.7	60- 70	225.8	2128	93.6,93.6
80	10.40	23.28	72.94	34.11	11.86	15.10	97.80	20.66	70- 80	82.67	2211	97.3,97.3
90	7.259	8.487	9.014	8.917	8.171	8.766	11.08	9.195	80- 90	16.67	2228	98,98
100	5.494	6.410	7.279	6.710	6.970	7.489	8.511	7.499	90-100	8.538	2236	98.4,98.4
110	4.925	5.327	6.080	5.736	6.802	7.274	7.699	7.044	100-110	7.015	2243	98.7,98.7
120	5.093	5.101	5.701	5.589	7.021	7.470	7.624	7.066	110-120	6.254	2250	99,99
130	5.672	5.415	5.956	5.920	7.417	7.832	7.843	7.360	120-130	5.801	2255	99.2,99.2
140	6.491	6.155	6.665	6.615	7.942	8.304	8.247	7.854	130-140	5.370	2261	99.5,99.5
150	7.596	7.266	7.617	7.597	8.644	8.910	8.795	8.486	140-150	4.808	2266	99.7,99.7
160	8.822	8.504	8.601	8.627	9.467	9.566	9.371	9.135	150-160	3.944	2269	99.8,99.8
170	9.888	9.538	9.423	9.460	10.23	10.06	9.787	9.662	160-170	2.649	2272	100,100
180	10.52	10.14	9.909	9.871	10.51	10.14	9.905	9.875	170-180	0.9438	2273	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1332.3 lm

%lum = 58.6%

%lamp = 58.6%

Conical surface Flux(120deg): 1902.5 lm

%lum = 83.7%

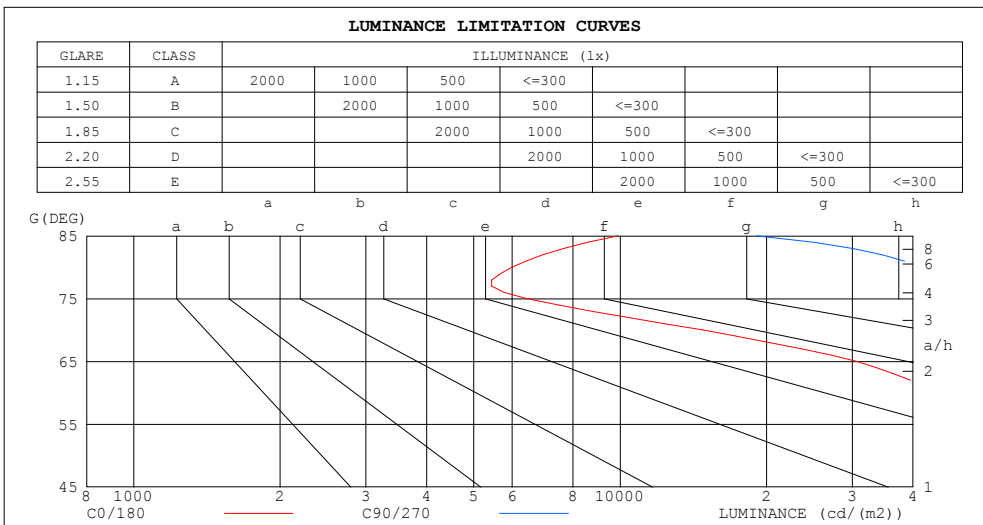
%lamp = 83.7%

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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9908	19048
80	5991	42005
75	6433	55077
70	14809	62237
65	30602	68239
60	44944	72314
55	56243	75422
50	65361	77892
45	72831	79852

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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	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	.274	.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	.223	.126	.040	
3.0	.249	.133	.040	.244	.130	.039	.232	.126	.038	.222	.122	.037	.213	.118	.036	
4.0	.233	.121	.036	.228	.119	.035	.218	.116	.035	.209	.112	.034	.200	.109	.033	
5.0	.218	.111	.032	.213	.109	.032	.204	.106	.031	.196	.103	.031	.188	.101	.030	
6.0	.203	.102	.029	.199	.101	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	
7.0	.190	.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	.080	.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	.040	.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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm										
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K					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	23.9	25.3	24.2	25.6	25.8	25.2	26.6	25.5	26.9	27.1
3H	24.2	25.5	24.5	25.8	26.0	26.5	27.8	26.8	28.1	28.3
4H	24.1	25.4	24.5	25.6	25.9	26.9	28.2	27.3	28.5	28.8
6H	24.0	25.2	24.4	25.5	25.8	27.2	28.3	27.5	28.6	29.0
8H	24.0	25.1	24.4	25.4	25.7	27.2	28.3	27.6	28.6	29.0
12H	24.0	25.0	24.3	25.3	25.7	27.2	28.3	27.6	28.6	28.9
4H 2H	24.5	25.8	24.9	26.0	26.3	25.6	26.8	25.9	27.1	27.4
3H	24.9	26.0	25.3	26.3	26.7	27.0	28.1	27.4	28.4	28.8
4H	24.9	25.9	25.3	26.2	26.6	27.5	28.5	27.9	28.8	29.2
6H	24.8	25.7	25.3	26.1	26.5	27.8	28.7	28.2	29.1	29.5
8H	24.8	25.6	25.2	26.0	26.4	27.9	28.7	28.3	29.1	29.5
12H	24.8	25.5	25.2	25.9	26.3	27.9	28.6	28.3	29.0	29.4
8H 4H	25.0	25.8	25.5	26.2	26.6	27.5	28.3	27.9	28.7	29.1
6H	25.0	25.6	25.4	26.1	26.5	27.8	28.5	28.3	28.9	29.4
8H	24.9	25.5	25.4	26.0	26.5	27.9	28.5	28.4	28.9	29.4
12H	24.9	25.4	25.4	25.9	26.4	27.9	28.4	28.4	28.9	29.4
12H 4H	25.0	25.7	25.4	26.1	26.6	27.4	28.2	27.9	28.6	29.0
6H	25.0	25.5	25.4	26.0	26.5	27.8	28.3	28.3	28.8	29.3
8H	24.9	25.4	25.4	25.9	26.4	27.9	28.3	28.4	28.8	29.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.2 / - 0.3				
1.5H	+ 0.4 / - 0.8					+ 0.3 / - 0.4				
2.0H	+ 0.6 / - 1.5					+ 0.3 / - 0.4				

CIE Pub.117, 2273 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.9)

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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

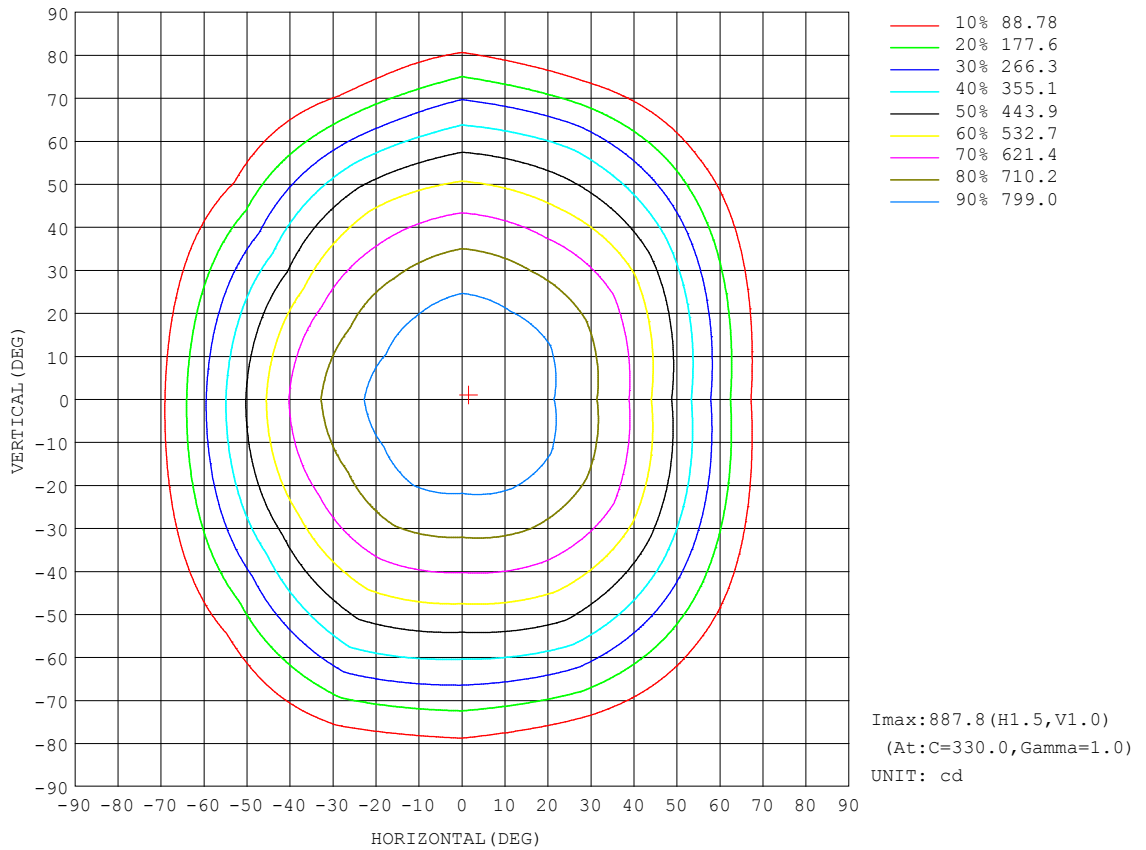
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	70	59	52	69	58	52	67	58	51	45
1.00	79	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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

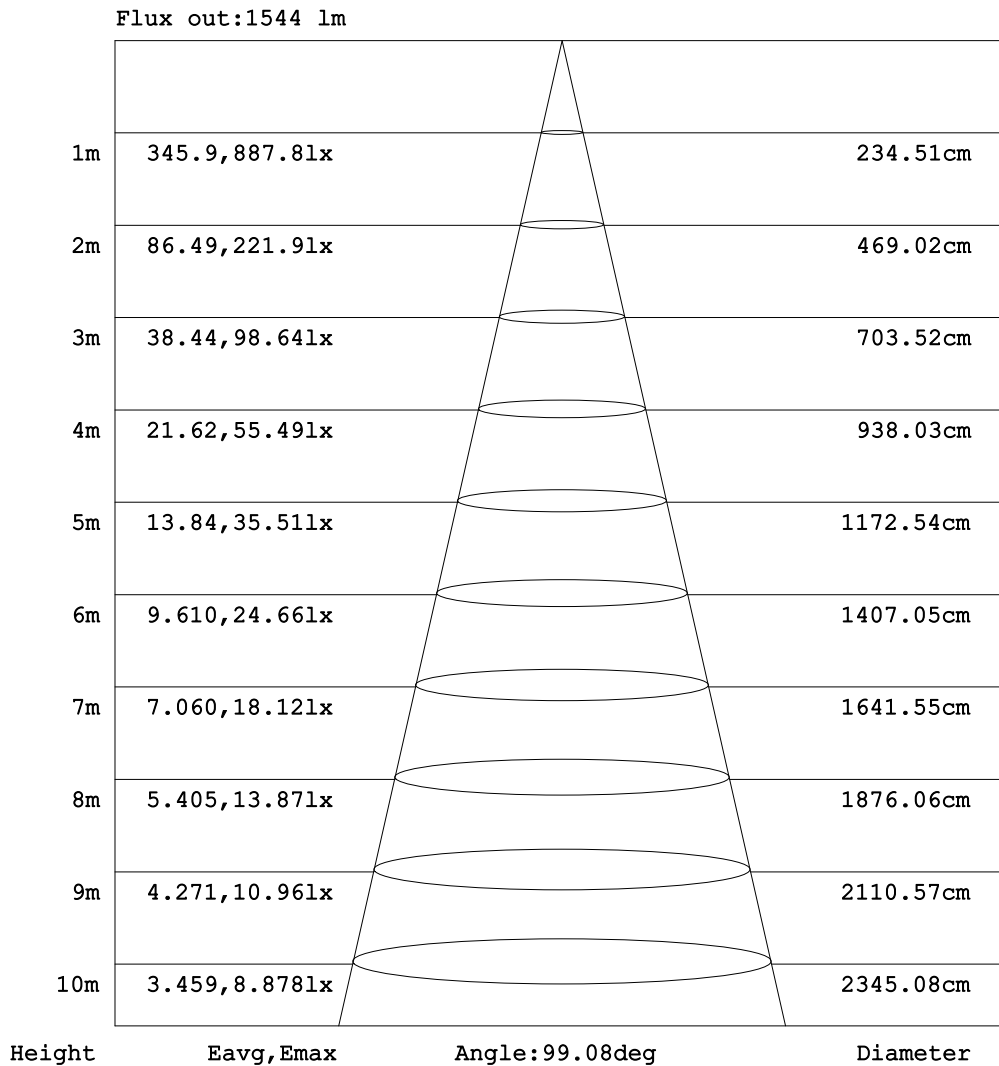


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-30

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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

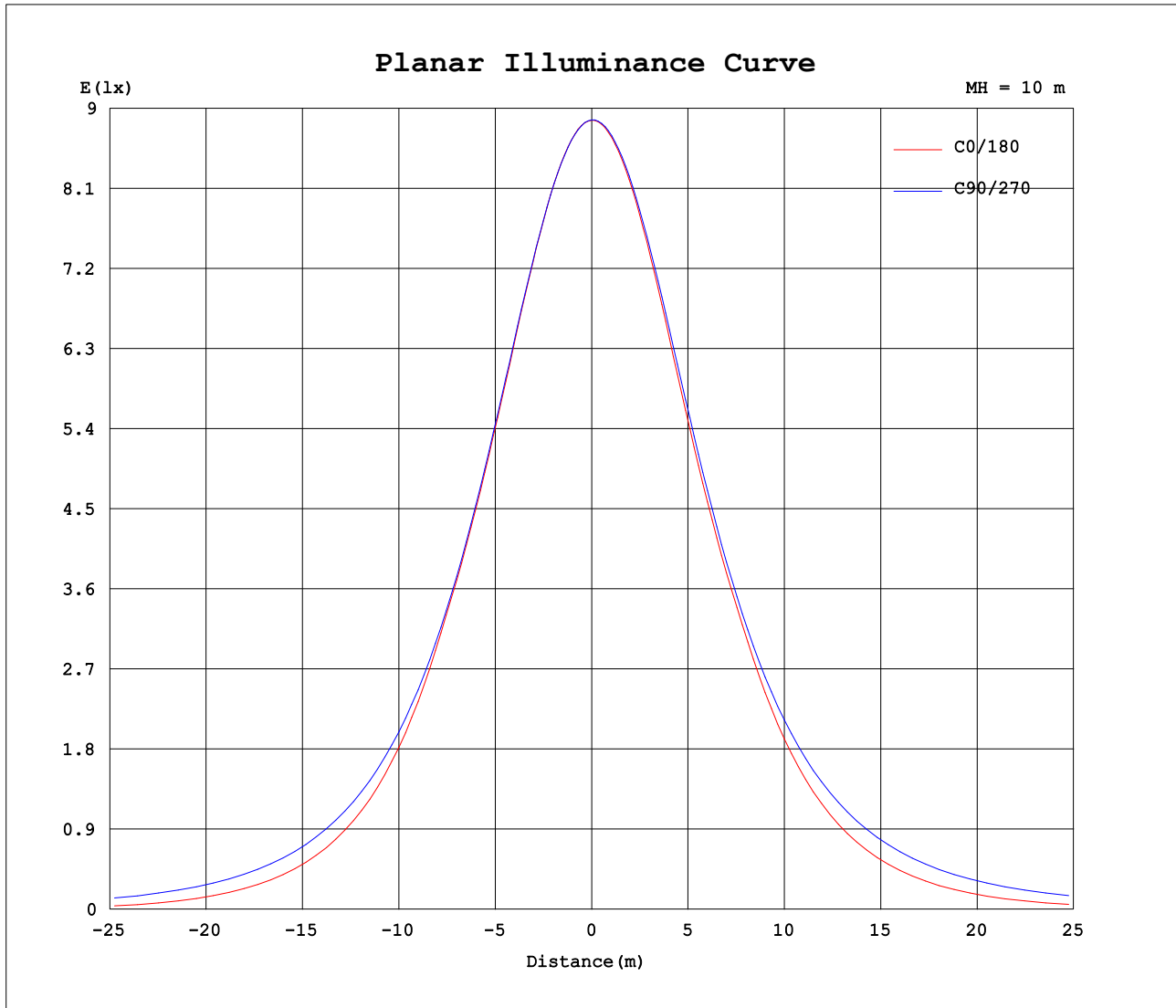


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3070A P:36.60W PF:0.9880 Freq:60.00Hz Lamp Flux:2273.06x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 4000K	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	887	886	887	887	888	888	887	886	887	887	888	888							
5	881	885	884	880	883	881	883	879	881	885	883	885							
10	866	875	872	866	870	865	870	862	866	874	871	874							
15	842	856	852	843	849	841	849	836	843	856	850	854							
20	810	828	825	813	819	808	819	802	813	830	822	826							
25	770	792	789	775	783	767	780	761	775	796	786	790							
30	724	748	746	731	739	721	737	715	730	756	743	747							
35	673	699	697	681	690	670	688	664	679	710	695	698							
40	603	644	642	625	635	613	625	597	625	658	640	643							
45	515	575	581	565	574	538	542	512	566	602	581	583							
50	420	489	516	501	511	453	449	419	500	541	516	500							
55	323	395	448	433	445	362	353	323	416	476	448	406							
60	225	300	367	362	374	271	256	226	328	408	377	309							
65	129	203	278	288	294	179	160	131	234	337	295	210							
70	50.6	113	188	213	210	95.1	75.3	53.8	142	260	198	114							
75	16.7	41.4	102	143	128	35.8	27.6	18.5	57.0	177	103	38.7							
80	10.4	13.5	33.0	72.9	54.7	13.5	11.9	11.3	18.9	97.8	27.9	13.4							
85	8.64	9.70	10.4	16.6	14.5	9.74	9.63	9.18	11.9	29.7	11.4	10.4							
90	7.26	8.15	8.82	9.01	9.79	8.04	8.17	8.02	9.51	11.1	9.69	8.70							
95	6.21	6.95	7.72	8.07	8.29	6.90	7.39	7.41	8.43	9.57	8.49	7.74							
100	5.49	6.00	6.82	7.28	7.32	6.10	6.97	7.13	7.85	8.51	7.80	7.20							
105	5.08	5.37	6.10	6.60	6.58	5.61	6.81	7.04	7.58	7.96	7.42	6.95							
110	4.93	5.04	5.62	6.08	6.09	5.38	6.80	7.07	7.48	7.70	7.24	6.85							
115	4.94	4.92	5.35	5.79	5.83	5.34	6.88	7.18	7.50	7.62	7.19	6.84							
120	5.09	4.94	5.26	5.70	5.76	5.42	7.02	7.35	7.59	7.62	7.22	6.91							
125	5.36	5.10	5.31	5.76	5.81	5.61	7.21	7.55	7.73	7.71	7.33	7.04							
130	5.67	5.34	5.49	5.96	5.97	5.87	7.42	7.76	7.90	7.84	7.50	7.22							
135	6.04	5.67	5.80	6.27	6.25	6.19	7.66	8.00	8.12	8.02	7.71	7.44							
140	6.49	6.09	6.22	6.67	6.63	6.60	7.94	8.26	8.35	8.25	7.97	7.73							
145	7.02	6.63	6.73	7.14	7.10	7.08	8.26	8.54	8.63	8.52	8.26	8.06							
150	7.60	7.23	7.31	7.62	7.58	7.61	8.64	8.87	8.95	8.80	8.56	8.41							
155	8.21	7.90	7.89	8.11	8.09	8.16	9.04	9.23	9.25	9.08	8.83	8.79							
160	8.82	8.57	8.44	8.60	8.56	8.69	9.47	9.57	9.56	9.37	9.11	9.16							
165	9.39	9.18	8.94	9.04	9.01	9.15	9.88	9.89	9.81	9.60	9.37	9.48							
170	9.89	9.69	9.39	9.42	9.38	9.54	10.2	10.1	9.99	9.79	9.58	9.74							
175	10.3	10.1	9.74	9.71	9.63	9.83	10.5	10.3	10.1	9.90	9.72	9.91							
180	10.5	10.3	9.99	9.91	9.77	9.98	10.5	10.3	10.0	9.90	9.77	9.98							

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: