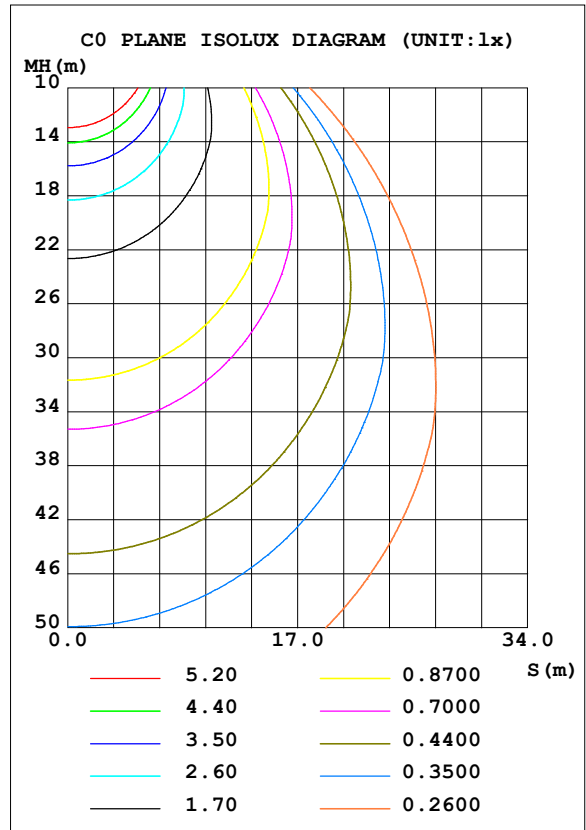
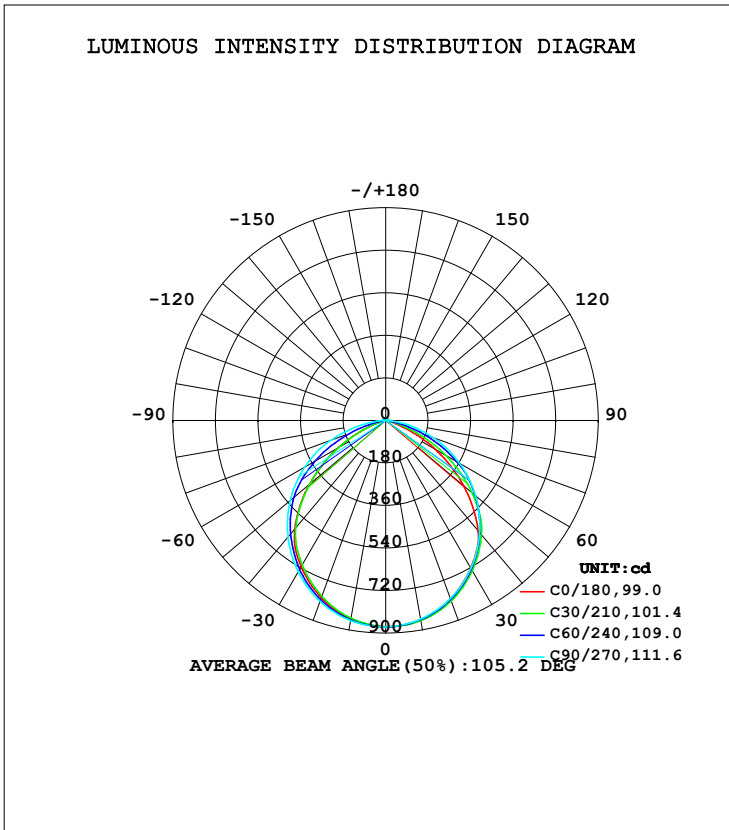


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.03 lm/W			
MODEL		I _{max} (cd)	873.7	S/MH (C0/180)	1.23
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2239.2	η UP, DN (C0-180)	0.9, 48.9
NOMINAL FLUX (lm)	2239.25	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	855.5	857.8	853.4	853.4	852.7	853.0	859.3	858.5	0- 10	82.50	82.50	3.68,3.68
20	803.3	809.1	802.0	800.3	798.5	799.2	813.8	810.8	10- 20	235.3	317.8	14.2,14.2
30	721.2	729.7	722.5	717.9	715.2	717.2	740.2	733.6	20- 30	353.7	671.5	30,30
40	608.3	625.4	619.0	612.6	598.5	608.9	643.4	632.1	30- 40	422.3	1094	48.8,48.8
50	431.3	486.6	497.2	473.0	422.0	464.1	527.3	500.9	40- 50	424.9	1519	67.8,67.8
60	239.4	319.3	360.5	316.6	231.3	288.1	396.4	339.5	50- 60	354.1	1873	83.6,83.6
70	62.03	139.9	214.8	149.4	60.35	110.1	250.0	155.0	60- 70	223.4	2096	93.6,93.6
80	10.65	19.37	76.49	33.45	11.09	17.15	90.33	20.46	70- 80	81.76	2178	97.3,97.3
90	7.392	8.261	9.006	8.772	7.846	8.863	10.74	9.099	80- 90	16.33	2194	98,98
100	5.537	6.298	7.279	6.641	6.821	7.454	8.331	7.405	90-100	8.444	2203	98.4,98.4
110	4.898	5.291	6.096	5.693	6.708	7.195	7.582	6.952	100-110	6.944	2210	98.7,98.7
120	5.026	5.119	5.701	5.570	6.959	7.374	7.522	6.968	110-120	6.200	2216	99,99
130	5.567	5.454	5.928	5.897	7.366	7.730	7.757	7.258	120-130	5.754	2222	99.2,99.2
140	6.358	6.212	6.626	6.594	7.899	8.208	8.172	7.760	130-140	5.330	2227	99.5,99.5
150	7.443	7.317	7.555	7.562	8.609	8.814	8.725	8.390	140-150	4.775	2232	99.7,99.7
160	8.673	8.524	8.522	8.578	9.424	9.474	9.293	9.041	150-160	3.917	2236	99.8,99.8
170	9.755	9.515	9.337	9.393	10.15	9.983	9.708	9.570	160-170	2.630	2238	100,100
180	10.42	10.08	9.818	9.789	10.42	10.09	9.822	9.789	170-180	0.9365	2239	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1310.8 lm

%lum = 58.5%
%lamp = 58.5%

Conical surface Flux(120deg): 1872.9 lm

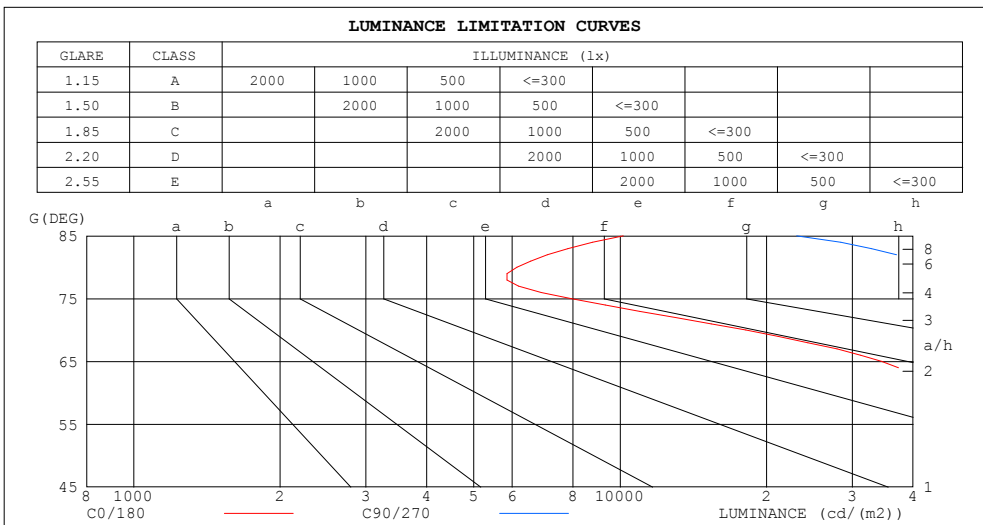
%lum = 83.6%
%lamp = 83.6%

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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10137	23052
80	6136	44049
75	7926	56079
70	18135	62812
65	34436	68341
60	47885	72109
55	58523	75011
50	67095	77352
45	74073	79227

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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm						
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K			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	.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	.100	.066	.099	.070	.047	.058	.041	.028	.019	.013	.009	
5.0	.161	.106	.065	.139	.092	.056	.095	.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	.073	.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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm										
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K					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	26.5	25.4	26.8	27.0
3H	24.3	25.6	24.7	25.9	26.2	26.4	27.7	26.7	28.0	28.3
4H	24.3	25.5	24.6	25.8	26.1	26.9	28.1	27.2	28.4	28.7
6H	24.2	25.4	24.6	25.7	26.0	27.1	28.3	27.5	28.6	28.9
8H	24.2	25.3	24.5	25.6	25.9	27.2	28.3	27.5	28.6	28.9
12H	24.1	25.2	24.5	25.5	25.8	27.2	28.2	27.5	28.6	28.9
4H 2H	24.5	25.8	24.9	26.1	26.3	25.5	26.7	25.8	27.0	27.3
3H	25.0	26.1	25.4	26.4	26.7	26.9	27.9	27.3	28.3	28.6
4H	25.0	25.9	25.4	26.3	26.7	27.4	28.4	27.8	28.7	29.1
6H	24.9	25.7	25.3	26.1	26.5	27.7	28.5	28.1	28.9	29.3
8H	24.9	25.7	25.3	26.1	26.5	27.8	28.5	28.2	28.9	29.4
12H	24.8	25.6	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	26.7	27.3	28.1	27.8	28.5	28.9
6H	25.0	25.6	25.5	26.1	26.5	27.7	28.3	28.1	28.8	29.2
8H	25.0	25.5	25.5	26.0	26.5	27.8	28.3	28.2	28.8	29.3
12H	25.0	25.5	25.5	25.9	26.5	27.8	28.3	28.3	28.8	29.3
12H 4H	25.0	25.7	25.5	26.2	26.6	27.3	28.0	27.7	28.4	28.9
6H	25.0	25.5	25.5	26.0	26.5	27.6	28.2	28.1	28.7	29.2
8H	25.0	25.4	25.5	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 / - 0.7					+ 0.2 / - 0.3				
2.0H	+ 0.7 / - 1.3					+ 0.4 / - 0.5				

CIE Pub.117, 2239 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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

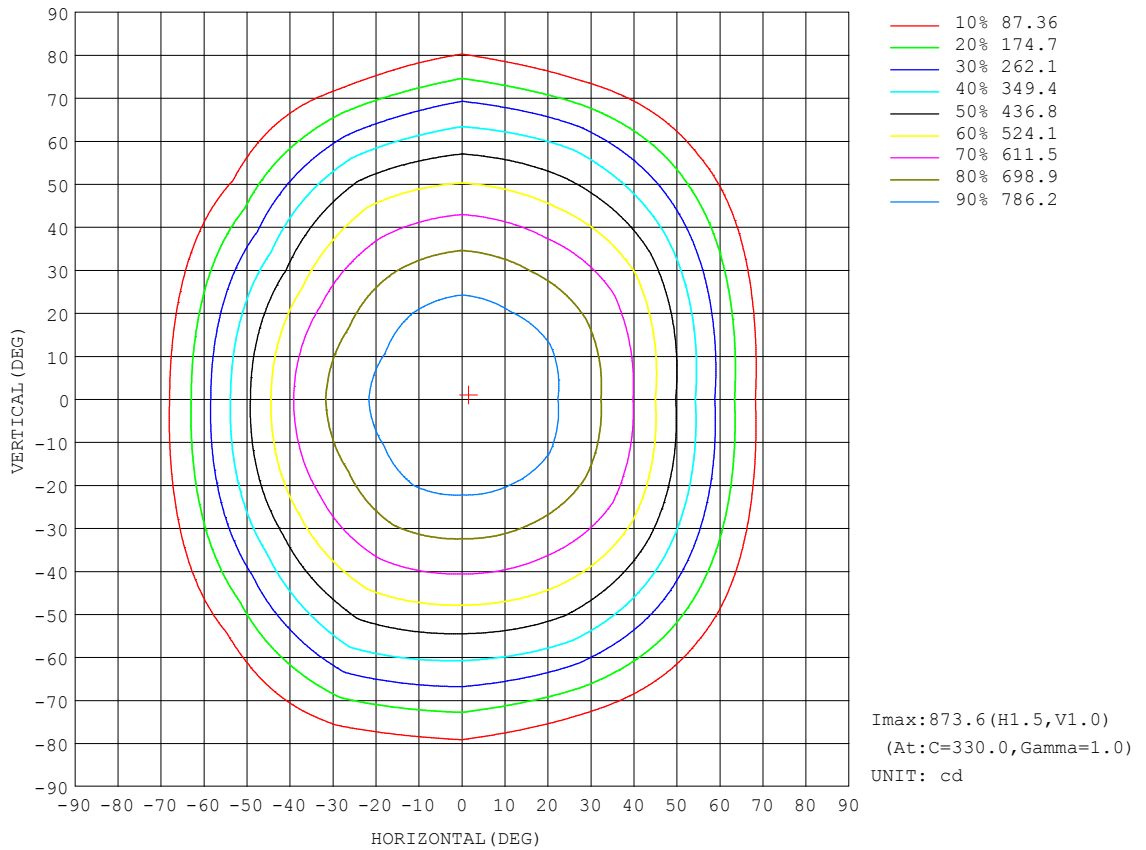
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	48	42	59	48	42	57	48	41	35
0.80	70	59	52	69	58	52	67	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

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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

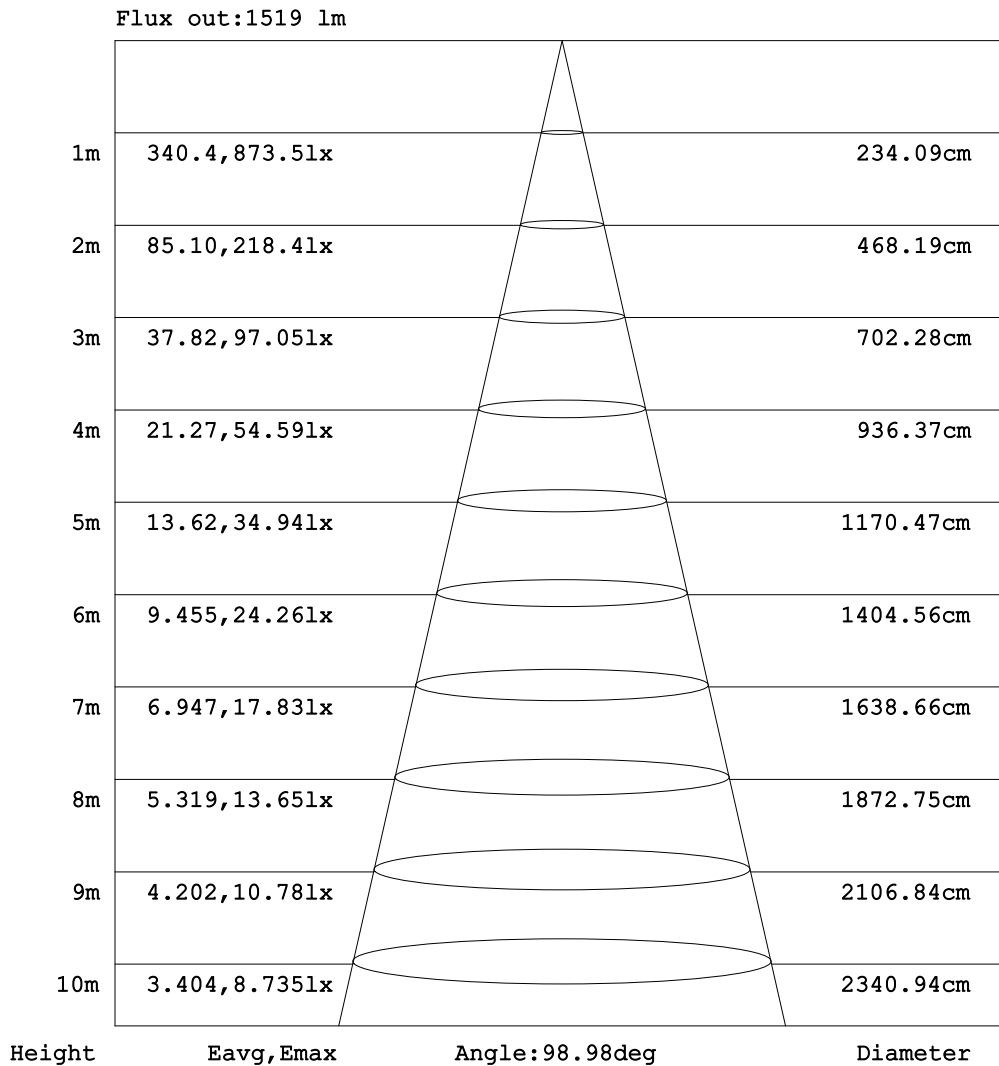


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-30

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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

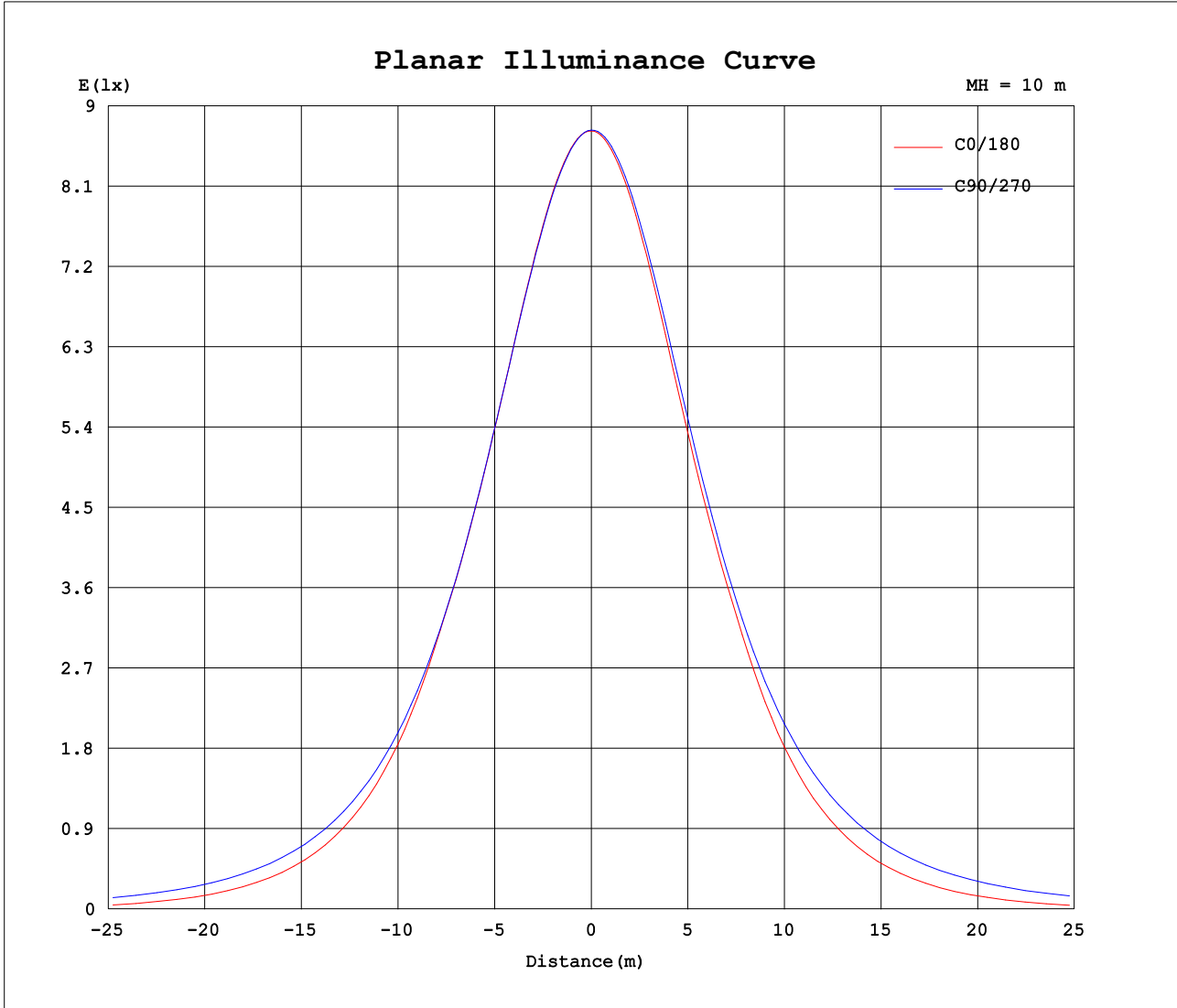


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3030A P:36.10W PF:0.9870 Freq:60.00Hz Lamp Flux:2239.25x1 lm		
NAME: ROWAN-36-38W-95C-MVUD-BL 整灯 3500K	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	872	872	873	873	873	873	872	872	873	873	873	873							
5	868	870	869	867	869	867	867	865	869	870	869	871							
10	856	860	856	853	856	851	853	849	857	859	857	860							
15	834	840	835	832	835	826	830	825	836	840	836	841							
20	803	813	806	802	807	794	798	791	807	814	808	814							
25	765	777	769	766	770	754	759	751	771	780	773	779							
30	721	734	726	723	727	708	715	706	728	740	731	736							
35	672	685	676	673	679	658	666	656	679	695	683	688							
40	608	631	620	619	624	601	599	592	626	643	630	635							
45	524	563	559	560	565	527	514	510	569	587	571	576							
50	431	478	495	497	503	443	422	420	508	527	507	495							
55	336	386	427	430	437	355	327	326	432	464	440	404							
60	239	292	347	361	369	265	231	231	345	396	371	308							
65	146	197	258	289	289	175	138	137	256	327	289	211							
70	62.0	109	171	215	207	92.0	60.3	57.4	163	250	194	116							
75	20.5	40.0	88.8	145	127	34.4	21.3	19.6	75.6	168	99.9	40.5							
80	10.7	13.2	25.6	76.5	53.8	13.2	11.1	11.4	23.0	90.3	27.3	13.6							
85	8.84	9.50	9.91	20.1	14.2	9.55	9.12	9.19	12.5	26.1	11.2	10.3							
90	7.39	8.01	8.52	9.01	9.64	7.90	7.85	8.00	9.73	10.7	9.55	8.65							
95	6.31	6.85	7.51	8.07	8.19	6.82	7.16	7.36	8.49	9.33	8.37	7.68							
100	5.54	5.93	6.66	7.28	7.25	6.04	6.82	7.06	7.85	8.33	7.68	7.13							
105	5.09	5.32	6.00	6.62	6.52	5.56	6.70	6.97	7.53	7.81	7.32	6.86							
110	4.90	5.01	5.57	6.10	6.04	5.35	6.71	6.99	7.40	7.58	7.14	6.76							
115	4.89	4.91	5.36	5.81	5.80	5.32	6.80	7.09	7.42	7.51	7.09	6.74							
120	5.03	4.94	5.29	5.70	5.73	5.41	6.96	7.26	7.49	7.52	7.12	6.81							
125	5.26	5.09	5.37	5.74	5.79	5.60	7.15	7.45	7.62	7.61	7.23	6.93							
130	5.57	5.33	5.57	5.93	5.95	5.84	7.37	7.66	7.81	7.76	7.41	7.11							
135	5.93	5.66	5.92	6.23	6.23	6.18	7.61	7.89	8.02	7.94	7.62	7.33							
140	6.36	6.08	6.34	6.63	6.61	6.58	7.90	8.15	8.26	8.17	7.89	7.63							
145	6.87	6.61	6.86	7.09	7.06	7.06	8.22	8.45	8.55	8.44	8.19	7.96							
150	7.44	7.21	7.42	7.55	7.54	7.59	8.61	8.78	8.85	8.72	8.48	8.30							
155	8.07	7.88	7.98	8.05	8.04	8.13	9.01	9.12	9.18	9.01	8.75	8.68							
160	8.67	8.53	8.51	8.52	8.51	8.64	9.42	9.47	9.48	9.29	9.04	9.05							
165	9.25	9.13	9.00	8.96	8.95	9.09	9.82	9.79	9.74	9.53	9.30	9.38							
170	9.75	9.61	9.42	9.34	9.32	9.47	10.2	10.0	9.94	9.71	9.51	9.63							
175	10.2	9.96	9.76	9.63	9.56	9.74	10.4	10.2	10.0	9.81	9.64	9.81							
180	10.4	10.2	9.99	9.82	9.70	9.88	10.4	10.2	9.99	9.82	9.70	9.88							

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: