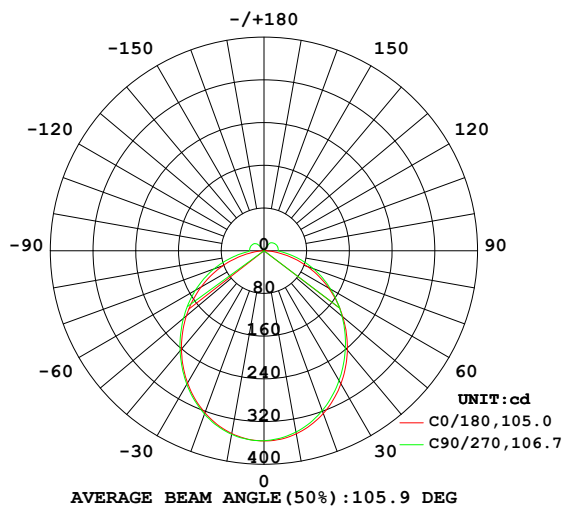


LUMINAIRE PHOTOMETRIC TEST REPORT

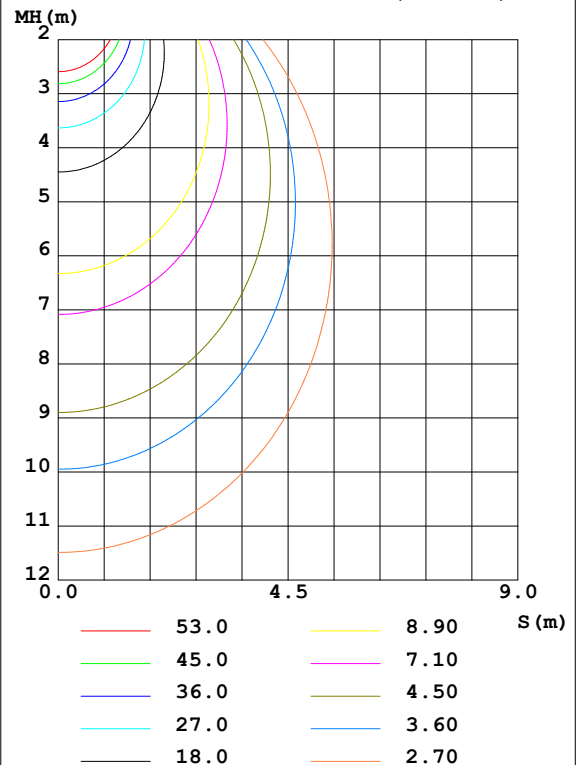
Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.77 lm/W			
MODEL		I _{max} (cd)	356.2	S/MH (C0/180)	1.20
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1030.8	η UP,DN (C0-180)	3.3,46.8
NOMINAL FLUX (lm)	1030.82	CIE CLASS	DIRECT	η UP,DN (C180-360)	3.0,46.8
LAMPS INSIDE	1	η up (%)	6.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	93.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JZ
 Test Date:2023-08-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity:65.0%
 Test Distance:8.700m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

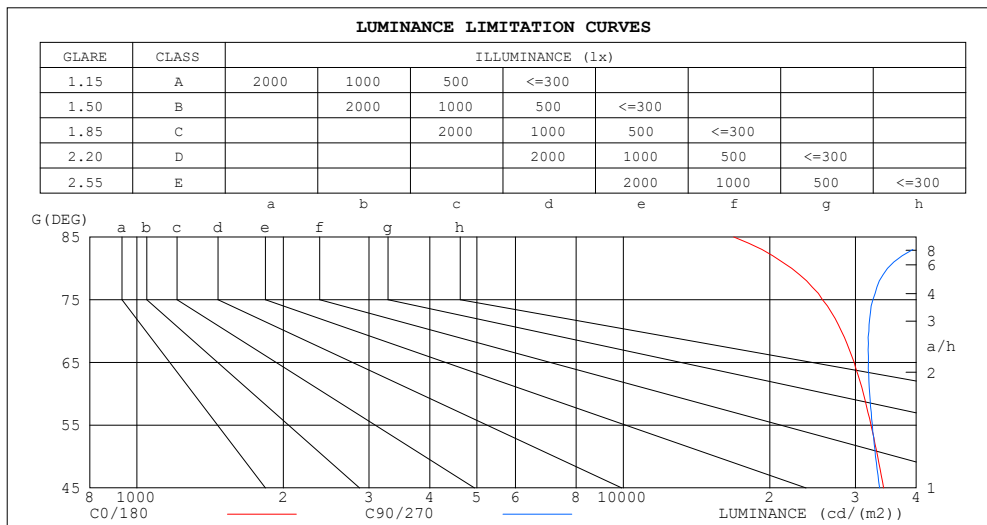
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	348.2	344.9	347.5	349.2					0- 10	33.57	33.57	3.26,3.26
20	324.5	318.8	323.2	325.7					10- 20	94.99	128.6	12.5,12.5
30	288.0	281.0	286.2	289.0					20- 30	140.8	269.4	26.1,26.1
40	243.0	237.2	240.5	244.7					30- 40	165.3	434.7	42.2,42.2
50	192.8	190.9	189.8	196.8					40- 50	167.6	602.3	58.4,58.4
60	140.2	144.4	136.3	148.5					50- 60	149.9	752.2	73,73
70	86.43	98.39	81.51	100.0					60- 70	115.7	867.9	84.2,84.2
80	34.68	54.56	29.41	53.51					70- 80	70.45	938.4	91,91
90	0.9011	26.89	0.5768	27.12					80- 90	27.42	965.8	93.7,93.7
100	0.3801	26.92	0.4560	26.96					90-100	14.95	980.8	95.1,95.1
110	0.5293	26.45	0.6283	26.25					100-110	14.40	995.2	96.5,96.5
120	0.7387	25.03	0.8376	24.41					110-120	13.05	1008	97.8,97.8
130	0.9480	22.77	1.023	20.90					120-130	10.94	1019	98.9,98.9
140	1.170	19.57	1.232	5.180					130-140	7.663	1027	99.6,99.6
150	1.320	1.490	1.392	1.293					140-150	2.745	1030	99.9,99.9
160	1.527	1.552	1.552	1.490					150-160	0.6583	1030	99.9,99.9
170	1.564	1.663	1.651	1.581					160-170	0.4454	1031	100,100
180	1.650	1.700	1.687	1.675					170-180	0.1569	1031	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16875	46723
80	22194	34914
75	25676	32594
70	28078	31964
65	29829	31905
60	31166	32089
55	32295	32507
50	33331	32991
45	34281	33639

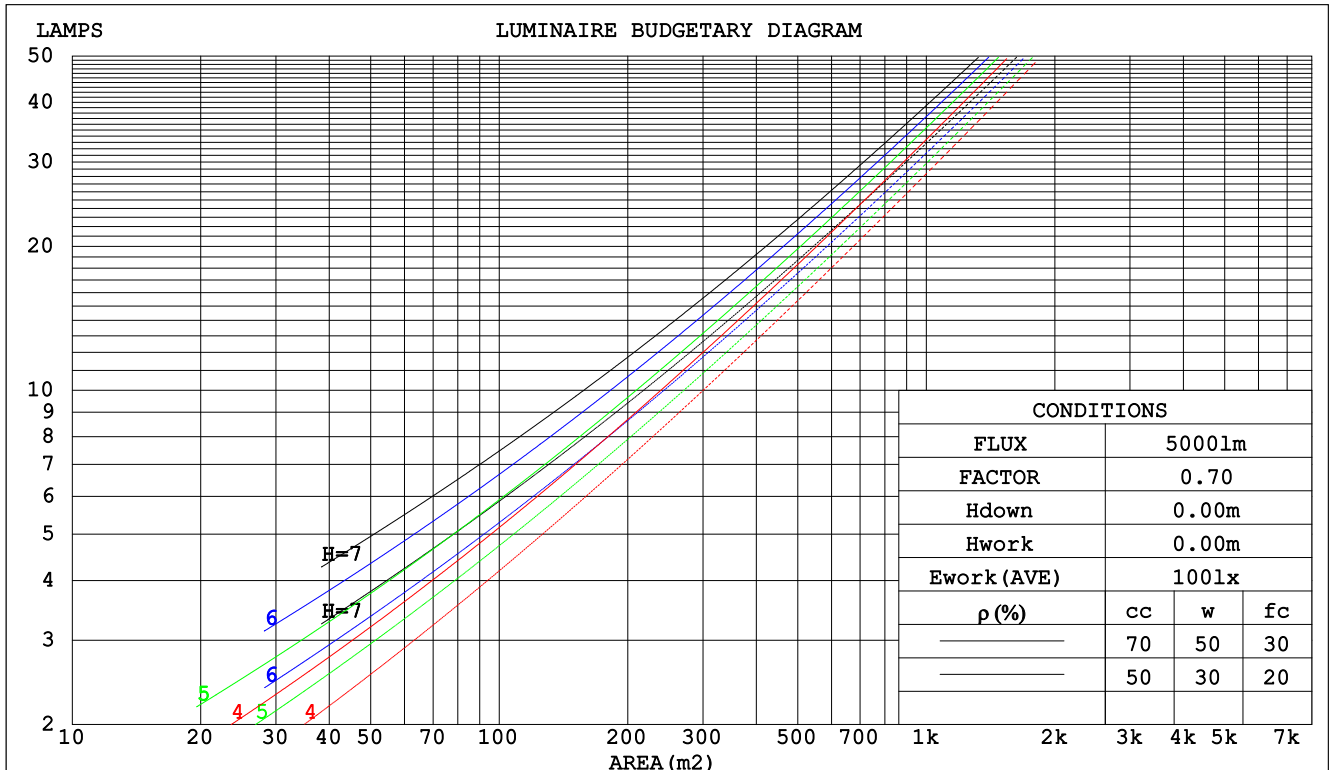
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	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															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz		
Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	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	.315	.179	.057	.306	.175	.055	.289	.166	.053	.274	.158	.051	.259	.150	.048		
2.0	.292	.160	.049	.284	.156	.048	.269	.150	.046	.255	.143	.045	.242	.137	.043		
3.0	.268	.143	.043	.261	.140	.042	.248	.134	.041	.235	.129	.040	.224	.124	.038		
4.0	.247	.128	.038	.241	.126	.037	.229	.121	.036	.217	.117	.035	.207	.112	.034		
5.0	.228	.116	.034	.222	.114	.033	.211	.110	.032	.201	.106	.032	.192	.103	.031		
6.0	.211	.106	.030	.206	.104	.030	.196	.101	.029	.187	.097	.029	.179	.094	.028		
7.0	.196	.097	.028	.192	.096	.027	.183	.092	.027	.175	.090	.026	.167	.087	.025		
8.0	.183	.090	.025	.179	.088	.025	.171	.086	.024	.164	.083	.024	.157	.080	.023		
9.0	.172	.083	.023	.168	.082	.023	.161	.079	.023	.154	.077	.022	.147	.075	.022		
10.0	.161	.077	.021	.158	.076	.021	.151	.074	.021	.145	.072	.020	.139	.070	.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	.239	.239	.239	.204	.204	.204	.139	.139	.139	.080	.080	.080	.026	.026	.026	
1.0	.229	.205	.182	.196	.176	.157	.134	.121	.109	.077	.070	.063	.025	.022	.020	
2.0	.221	.181	.147	.189	.156	.127	.130	.108	.088	.075	.063	.052	.024	.020	.017	
3.0	.213	.163	.124	.183	.141	.107	.125	.098	.075	.072	.057	.044	.023	.019	.015	
4.0	.206	.150	.108	.176	.130	.094	.121	.090	.066	.070	.053	.039	.023	.017	.013	
5.0	.198	.140	.097	.170	.121	.084	.117	.085	.060	.068	.050	.035	.022	.016	.012	
6.0	.191	.132	.089	.164	.114	.078	.113	.080	.055	.066	.047	.033	.021	.015	.011	
7.0	.184	.125	.083	.158	.108	.073	.109	.076	.051	.064	.045	.031	.021	.015	.010	
8.0	.178	.119	.079	.153	.103	.069	.106	.073	.049	.062	.043	.029	.020	.014	.010	
9.0	.172	.114	.075	.148	.099	.066	.103	.070	.047	.060	.041	.028	.019	.014	.009	
10.0	.166	.110	.073	.143	.095	.063	.099	.067	.045	.058	.040	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm											
NAME: RIBDC-35-30K-AM					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: RAYHIL					SUR.: 0.01*0.9			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	24.4	25.8	24.7	26.1	26.4	24.4	25.9	24.8	26.2	26.5	
	3H	25.8	27.2	26.2	27.5	27.9	26.1	27.4	26.5	27.8	28.1
	4H	26.4	27.7	26.8	28.0	28.4	26.9	28.1	27.3	28.5	28.9
	6H	26.8	28.0	27.2	28.4	28.8	27.6	28.8	28.0	29.1	29.5
	8H	26.9	28.1	27.4	28.5	28.9	27.9	29.0	28.3	29.4	29.9
	12H	27.0	28.1	27.4	28.5	28.9	28.2	29.3	28.7	29.7	30.2
4H	2H	25.0	26.2	25.4	26.6	27.0	25.0	26.3	25.4	26.6	27.0
	3H	26.6	27.7	27.1	28.1	28.6	26.9	28.0	27.3	28.4	28.8
	4H	27.4	28.4	27.8	28.8	29.3	27.8	28.8	28.3	29.2	29.7
	6H	27.9	28.8	28.4	29.2	29.7	28.6	29.5	29.1	30.0	30.5
	8H	28.1	28.9	28.6	29.4	29.9	29.0	29.9	29.6	30.3	30.9
	12H	28.1	28.9	28.7	29.4	29.9	29.5	30.2	30.0	30.7	31.2
8H	4H	27.7	28.5	28.2	29.0	29.5	28.1	28.9	28.6	29.4	29.9
	6H	28.4	29.1	28.9	29.6	30.1	29.1	29.8	29.6	30.3	30.9
	8H	28.6	29.3	29.2	29.8	30.4	29.6	30.2	30.2	30.8	31.3
	12H	28.8	29.3	29.4	29.9	30.5	30.2	30.7	30.7	31.3	31.9
12H	4H	27.7	28.5	28.2	29.0	29.5	28.1	28.8	28.6	29.3	29.9
	6H	28.5	29.1	29.0	29.6	30.2	29.2	29.8	29.7	30.3	30.9
	8H	28.8	29.3	29.4	29.9	30.5	29.7	30.3	30.3	30.8	31.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 1031 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)
Area: 0.009 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:

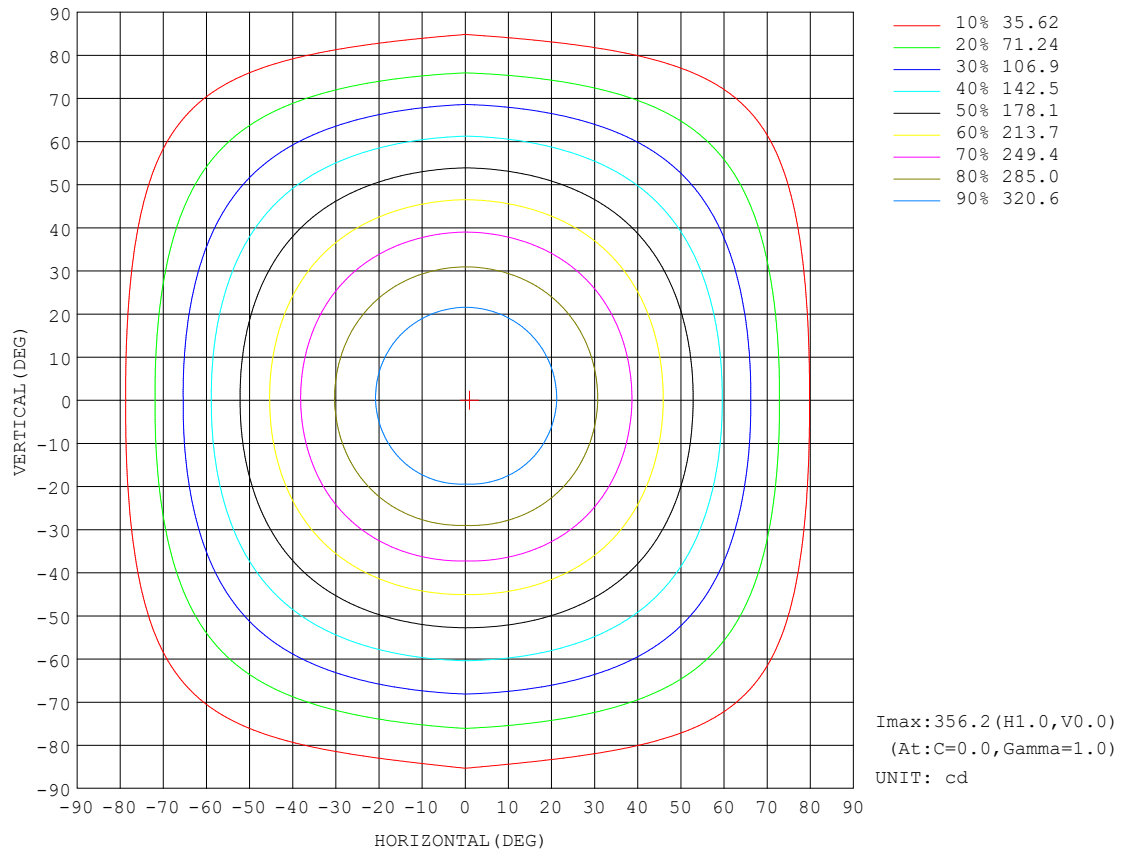
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	31
0.80	66	54	47	64	53	46	62	52	46	39
1.00	74	63	55	72	62	55	70	63	54	46
1.25	81	70	63	79	69	62	76	67	61	53
1.50	86	76	68	84	74	68	80	72	66	58
2.00	93	84	77	90	82	76	86	79	74	65
2.50	97	88	82	94	87	81	89	83	78	69
3.00	100	93	87	97	91	85	92	87	83	73
4.00	104	98	93	101	96	91	96	91	88	77
5.00	107	101	97	104	99	95	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:

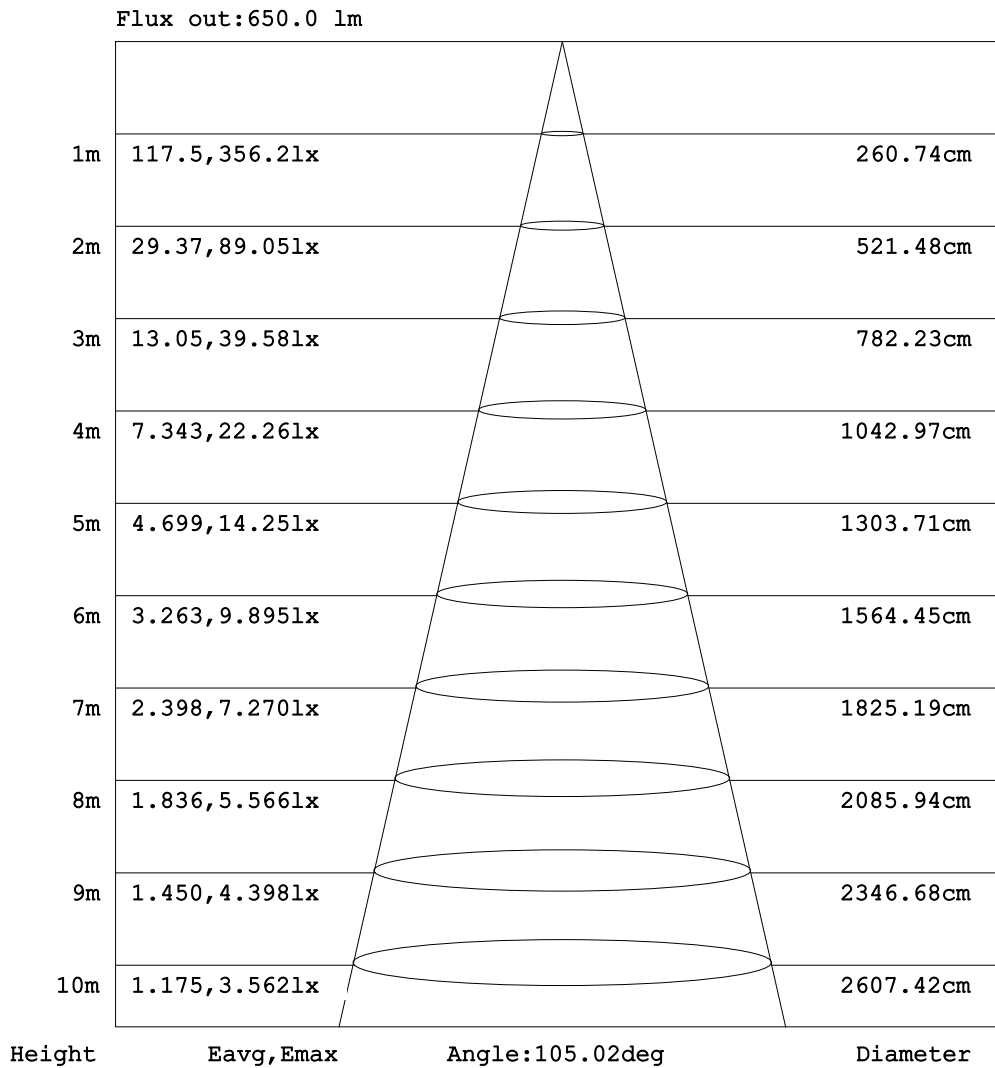


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:



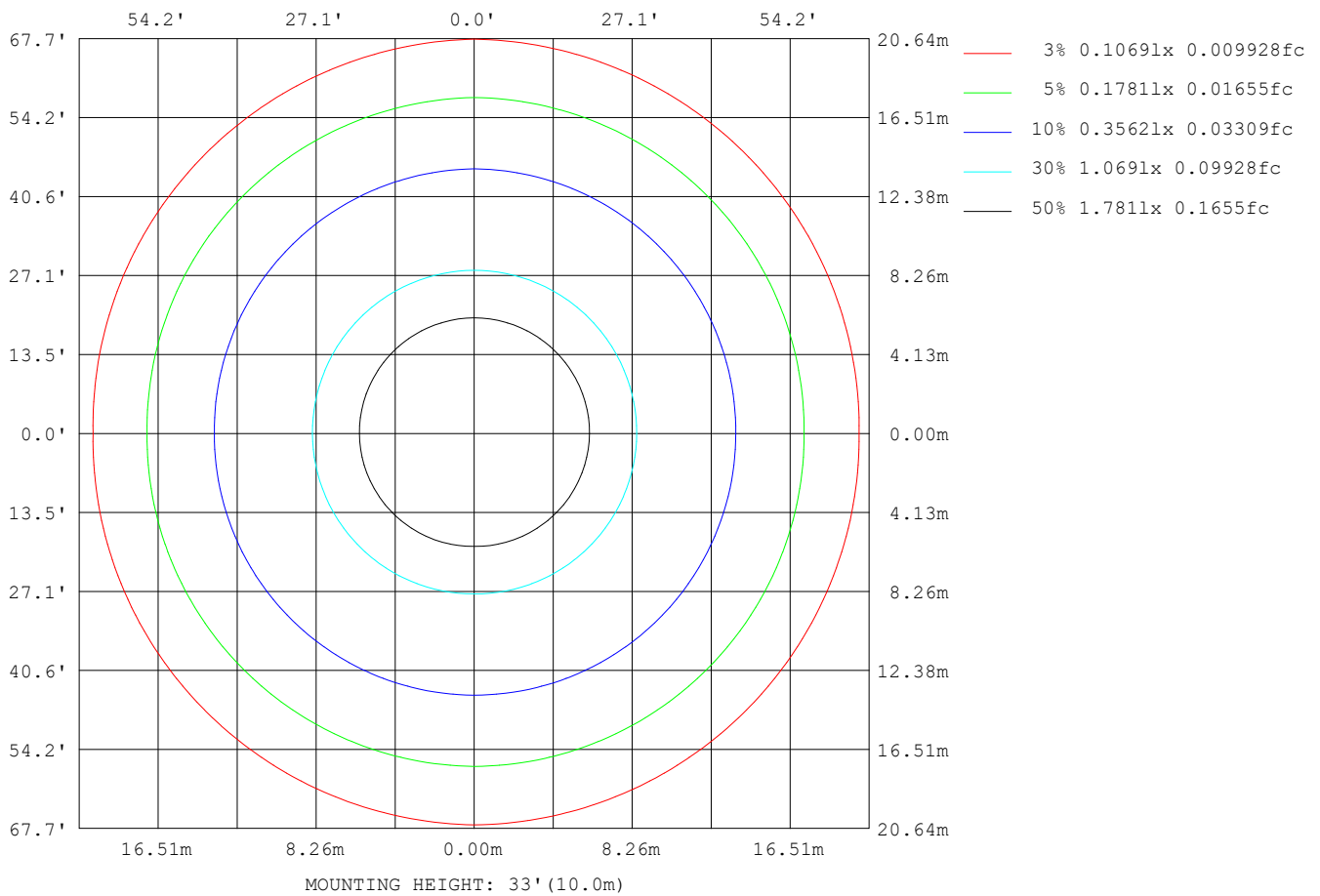
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:

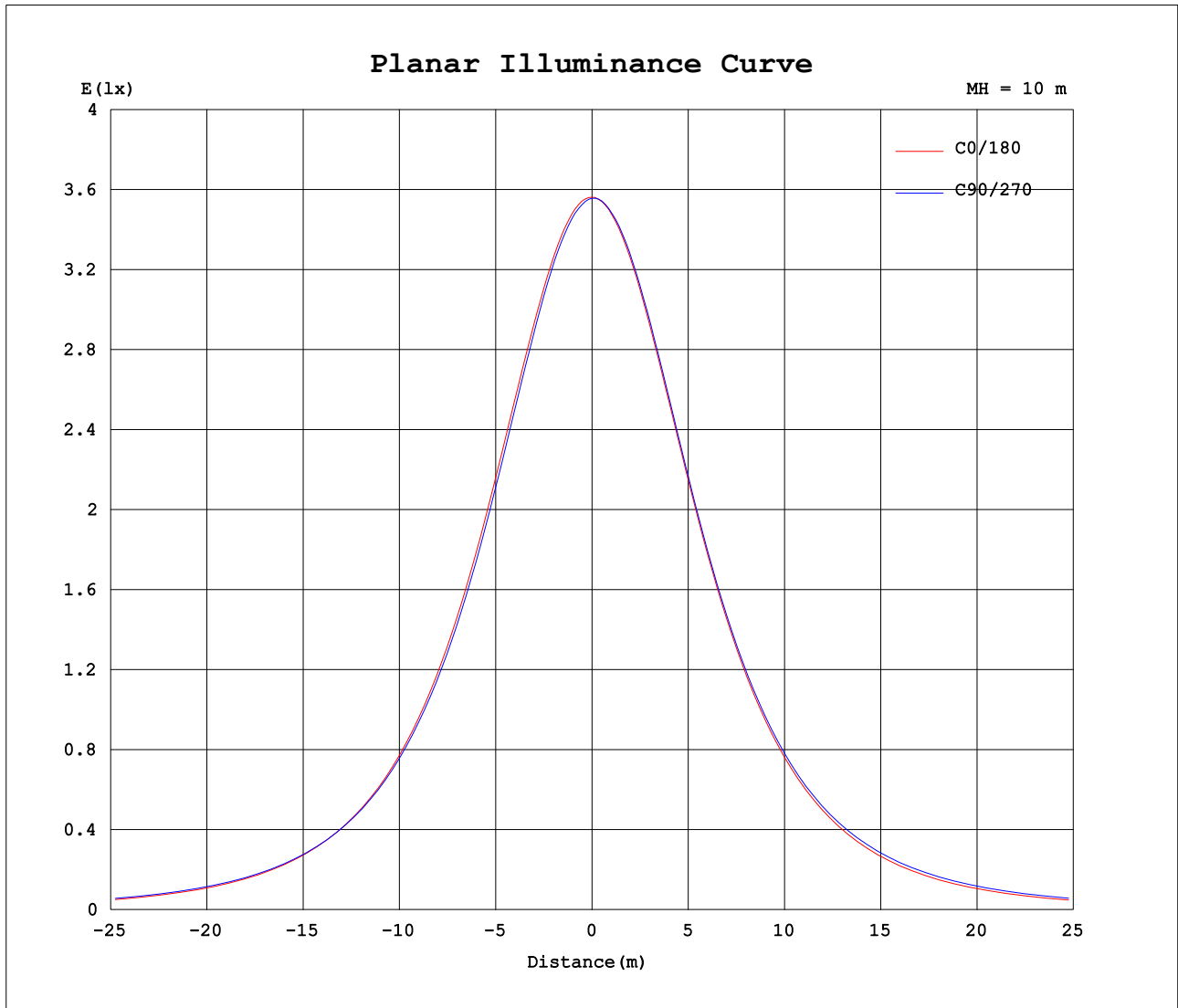
AvgL	cd/m2
L_0~180 (65) av	29229
L_0~180 (75) av	24539
L_0~180 (85) av	14161
L_90~270 (65) av	32260
L_90~270 (75) av	32578
L_90~270 (85) av	45632
L_45 (65) av	31086
L_45 (75) av	29492
L_45 (85) av	33661

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JZ
 Test Date: 2023-08-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.444
 Humidity: 65.0%
 Test Distance: 8.700m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.001V I:0.5127A P:12.305W PF:1.0000 Freq:0Hz Lamp Flux:1030.82x1 lm		
NAME: RIBDC-35-30K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.9	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	356	356	356	356															
5	354	352	354	355															
10	348	345	347	349															
15	338	334	337	339															
20	325	319	323	326															
25	308	301	306	309															
30	288	281	286	289															
35	266	259	264	267															
40	243	237	241	245															
45	218	214	216	221															
50	193	191	190	197															
55	167	168	163	173															
60	140	144	136	148															
65	113	121	109	124															
70	86.4	98.4	81.5	100															
75	59.8	75.9	54.5	75.9															
80	34.7	54.6	29.4	53.5															
85	13.2	36.6	8.98	34.9															
90	0.90	26.9	0.58	27.1															
95	0.36	26.9	0.39	27.1															
100	0.38	26.9	0.46	27.0															
105	0.42	26.8	0.54	26.7															
110	0.53	26.5	0.63	26.2															
115	0.62	25.9	0.73	25.5															
120	0.74	25.0	0.84	24.4															
125	0.84	24.0	0.92	23.1															
130	0.95	22.8	1.02	20.9															
135	1.11	21.3	1.15	17.4															
140	1.17	19.6	1.23	5.18															
145	1.22	14.7	1.33	1.29															
150	1.32	1.49	1.39	1.29															
155	1.39	1.48	1.48	1.35															
160	1.53	1.55	1.55	1.49															
165	1.55	1.63	1.59	1.54															
170	1.56	1.66	1.65	1.58															
175	1.61	1.71	1.69	1.61															
180	1.65	1.70	1.69	1.68															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.444
Humidity:65.0%
Test Distance:8.700m [K=1.0000]
Remarks: