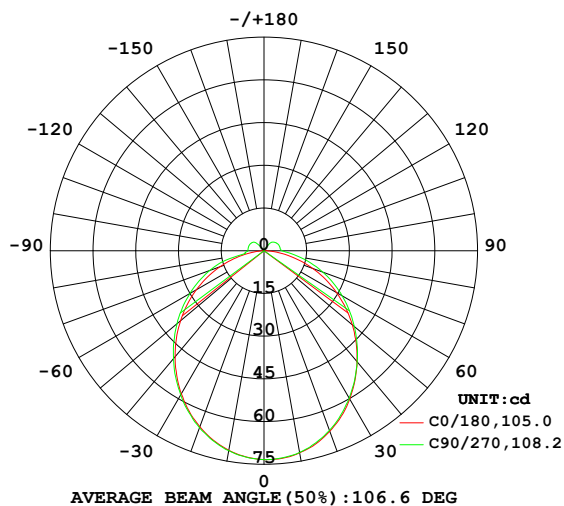


LUMINAIRE PHOTOMETRIC TEST REPORT

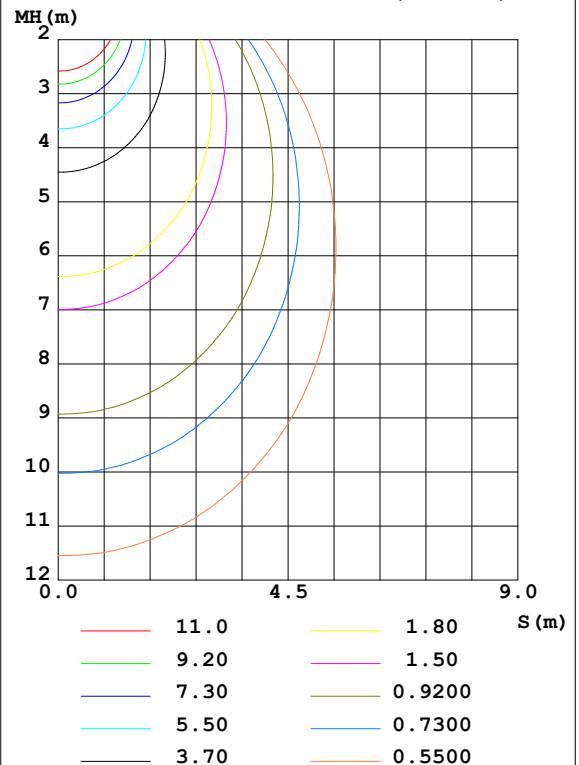
Test:U:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.62 lm/W			
MODEL		I _{max} (cd)	73.34	S/MH (C0/180)	1.19
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)		TOTAL FLUX (lm)	214.20	η UP, DN (C0-180)	3.3, 48.1
NOMINAL FLUX (lm)	214.198	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.1, 45.5
LAMPS INSIDE	1	η up (%)	6.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	93.6	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:

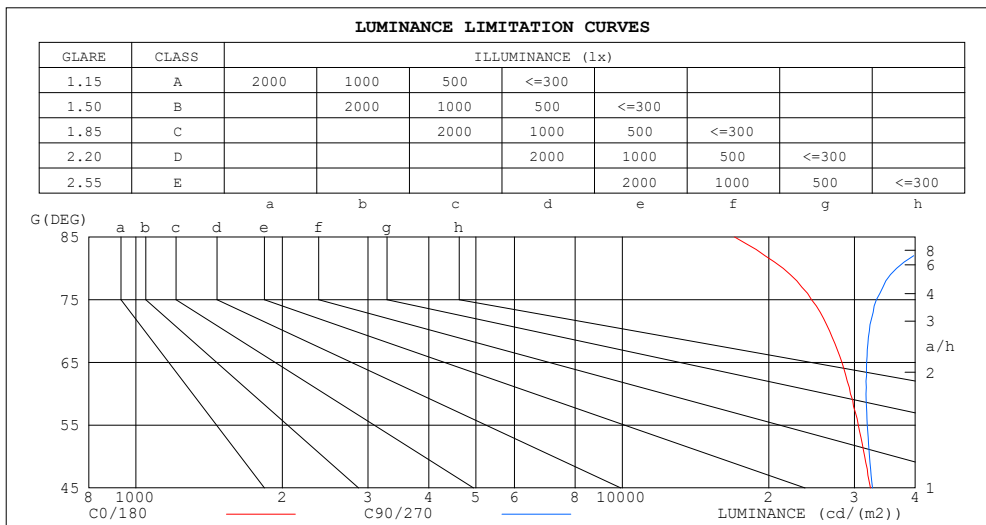
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	72.03	71.91	71.16	71.26					0- 10	6.917	6.917	3.23,3.23
20	67.50	67.18	65.81	66.19					10- 20	19.59	26.51	12.4,12.4
30	60.18	59.81	58.03	58.51					20- 30	29.09	55.60	26,26
40	50.87	50.93	48.56	49.43					30- 40	34.19	89.79	41.9,41.9
50	40.48	41.41	38.24	39.85					40- 50	34.76	124.6	58.1,58.1
60	29.44	31.69	27.49	30.10					50- 60	31.19	155.7	72.7,72.7
70	18.25	22.02	16.45	20.30					60- 70	24.22	180.0	84,84
80	7.437	12.72	5.988	7.967					70- 80	14.74	194.7	90.9,90.9
90	0.3729	6.316	0.0861	5.642					80- 90	5.739	200.4	93.6,93.6
100	0.0123	5.758	0.0985	5.651					90-100	3.203	203.6	95.1,95.1
110	0.0369	5.641	0.1513	5.579					100-110	3.035	206.7	96.5,96.5
120	0.1133	5.283	0.1809	5.284					110-120	2.773	209.5	97.8,97.8
130	0.1616	4.717	0.2218	4.755					120-130	2.338	211.8	98.9,98.9
140	0.1752	3.717	0.2637	1.728					130-140	1.622	213.4	99.6,99.6
150	0.2228	0.6510	0.3011	0.3126					140-150	0.5079	213.9	99.9,99.9
160	0.2837	0.3460	0.3408	0.3189					150-160	0.1488	214.1	99.9,99.9
170	0.3179	0.3502	0.3344	0.3449					160-170	0.0932	214.2	100,100
180	0.3449	0.3572	0.3325	0.3572					170-180	0.0325	214.2	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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17012	50694
80	21415	36613
75	24485	33298
70	26682	32198
65	28284	31772
60	29436	31693
55	30545	31891
50	31491	32212
45	32362	32696

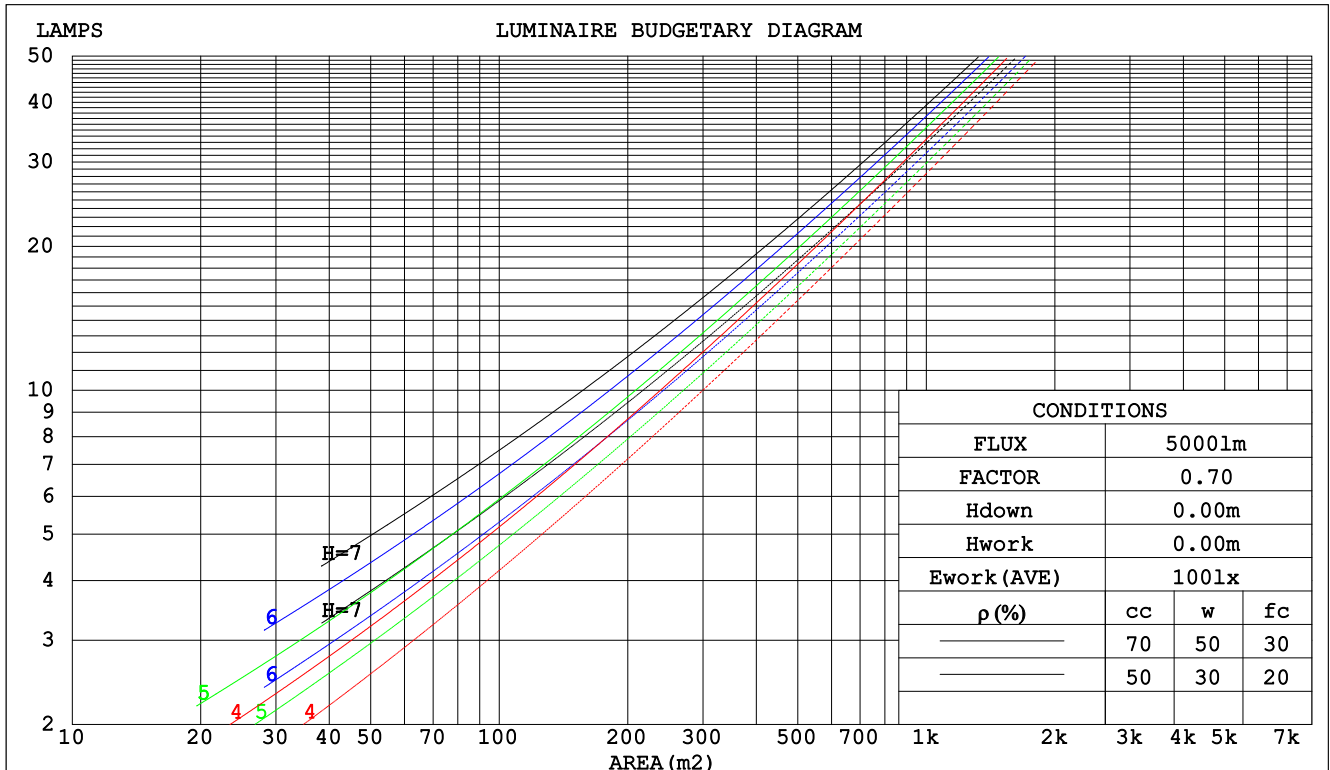
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz		
Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	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	.316	.180	.057	.307	.175	.056	.290	.166	.053	.274	.158	.051	.260	.151	.049		
2.0	.293	.160	.049	.285	.157	.048	.269	.150	.047	.256	.143	.045	.243	.137	.043		
3.0	.269	.143	.043	.262	.140	.042	.248	.135	.041	.236	.129	.040	.224	.124	.038		
4.0	.247	.129	.038	.241	.126	.037	.229	.121	.036	.218	.117	.035	.207	.113	.034		
5.0	.228	.116	.034	.222	.114	.033	.212	.110	.032	.202	.106	.032	.192	.103	.031		
6.0	.211	.106	.030	.206	.104	.030	.196	.101	.029	.187	.097	.029	.179	.094	.028		
7.0	.197	.097	.028	.192	.096	.027	.183	.093	.027	.175	.090	.026	.167	.087	.025		
8.0	.184	.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	.162	.078	.022	.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	.205	.205	.205	.140	.140	.140	.080	.080	.080	.026	.026	.026	
1.0	.230	.205	.183	.197	.176	.158	.135	.121	.109	.077	.070	.063	.025	.023	.021	
2.0	.222	.182	.148	.190	.156	.128	.130	.108	.089	.075	.063	.052	.024	.020	.017	
3.0	.214	.164	.124	.184	.142	.108	.126	.098	.076	.073	.057	.045	.023	.019	.015	
4.0	.207	.151	.109	.177	.131	.094	.122	.091	.067	.071	.053	.039	.023	.017	.013	
5.0	.199	.141	.098	.171	.122	.085	.118	.085	.060	.068	.050	.036	.022	.016	.012	
6.0	.192	.133	.090	.165	.115	.078	.114	.080	.055	.066	.047	.033	.021	.015	.011	
7.0	.185	.126	.084	.159	.109	.073	.110	.076	.052	.064	.045	.031	.021	.015	.010	
8.0	.179	.120	.080	.154	.104	.069	.106	.073	.049	.062	.043	.029	.020	.014	.010	
9.0	.173	.115	.076	.149	.100	.066	.103	.070	.047	.060	.041	.028	.019	.014	.009	
10.0	.167	.111	.073	.144	.096	.064	.100	.068	.046	.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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz										
Lamp Flux:214.198x1 lm										
NAME: RIBDC-8-35K-AM					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: RAYHIL					SUR.: 0.01*0.2			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	29.7	31.1	30.1	31.5	31.8	29.9	31.4	30.3	31.7	32.0
3H	31.2	32.5	31.6	32.9	33.2	31.7	33.0	32.1	33.4	33.7
4H	31.8	33.0	32.2	33.4	33.8	32.5	33.8	32.9	34.1	34.5
6H	32.2	33.4	32.6	33.8	34.2	33.3	34.5	33.7	34.8	35.2
8H	32.3	33.5	32.8	33.9	34.3	33.6	34.8	34.1	35.2	35.6
12H	32.4	33.5	32.8	33.9	34.3	34.0	35.1	34.5	35.5	36.0
4H 2H	30.4	31.6	30.8	32.0	32.4	30.5	31.8	30.9	32.1	32.5
3H	32.0	33.1	32.5	33.5	34.0	32.5	33.6	32.9	34.0	34.4
4H	32.8	33.8	33.2	34.2	34.7	33.4	34.4	33.9	34.9	35.3
6H	33.3	34.2	33.8	34.7	35.2	34.3	35.2	34.8	35.7	36.2
8H	33.5	34.3	34.0	34.8	35.3	34.8	35.6	35.3	36.1	36.6
12H	33.6	34.4	34.1	34.9	35.4	35.3	36.0	35.8	36.5	37.1
8H 4H	33.1	33.9	33.6	34.4	34.9	33.7	34.5	34.2	35.0	35.5
6H	33.9	34.5	34.4	35.1	35.6	34.8	35.5	35.3	36.0	36.6
8H	34.1	34.7	34.7	35.3	35.9	35.4	36.0	35.9	36.5	37.1
12H	34.3	34.9	34.9	35.4	36.0	36.0	36.5	36.6	37.1	37.7
12H 4H	33.2	33.9	33.7	34.4	35.0	33.7	34.5	34.2	35.0	35.5
6H	34.0	34.6	34.5	35.1	35.7	34.9	35.5	35.4	36.0	36.6
8H	34.3	34.8	34.9	35.4	36.0	35.5	36.0	36.1	36.6	37.2
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, 214.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.4)
Area: 0.002 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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:

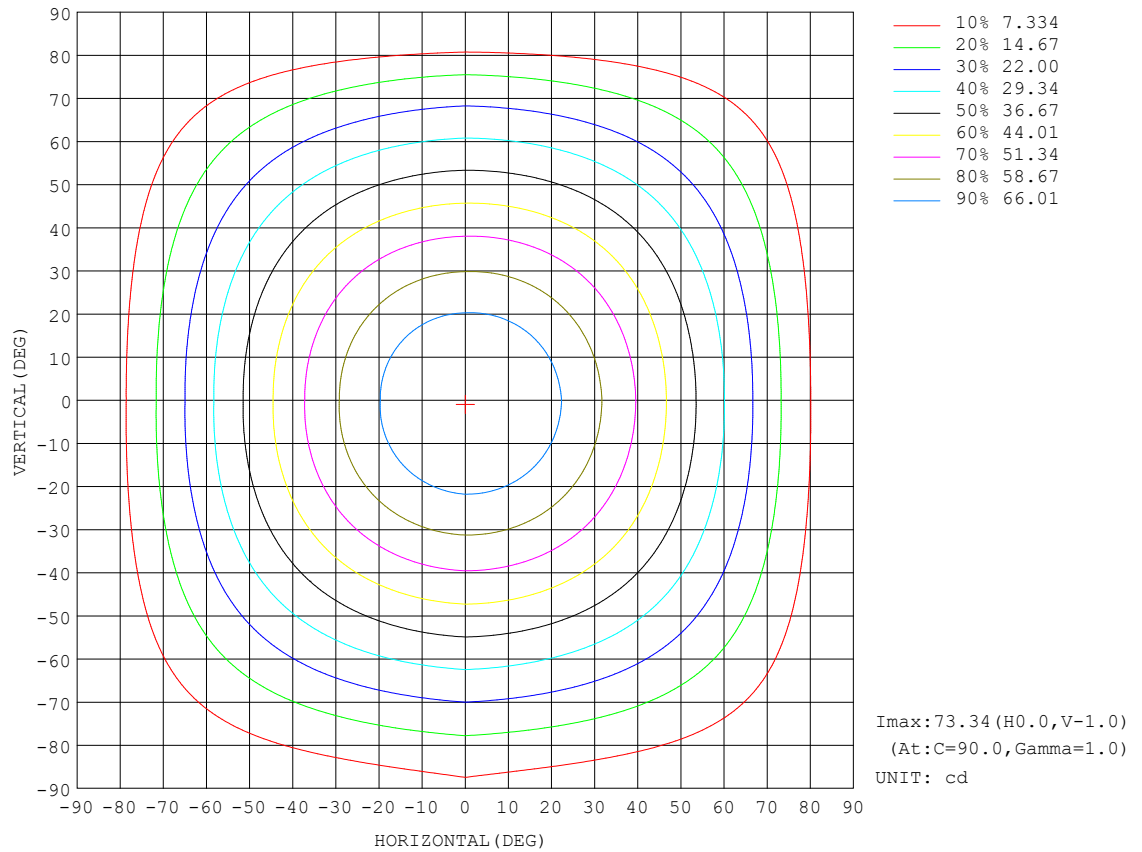
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	53	43	37	30
0.80	66	54	46	64	53	46	62	52	46	38
1.00	74	62	55	72	62	55	70	63	54	46
1.25	81	70	63	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	80	72	66	58
2.00	92	84	77	90	82	76	86	79	74	65
2.50	96	88	82	94	87	81	89	83	78	69
3.00	100	93	87	97	91	85	92	87	82	72
4.00	104	98	93	101	96	91	96	91	88	77
5.00	106	101	97	103	99	95	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:

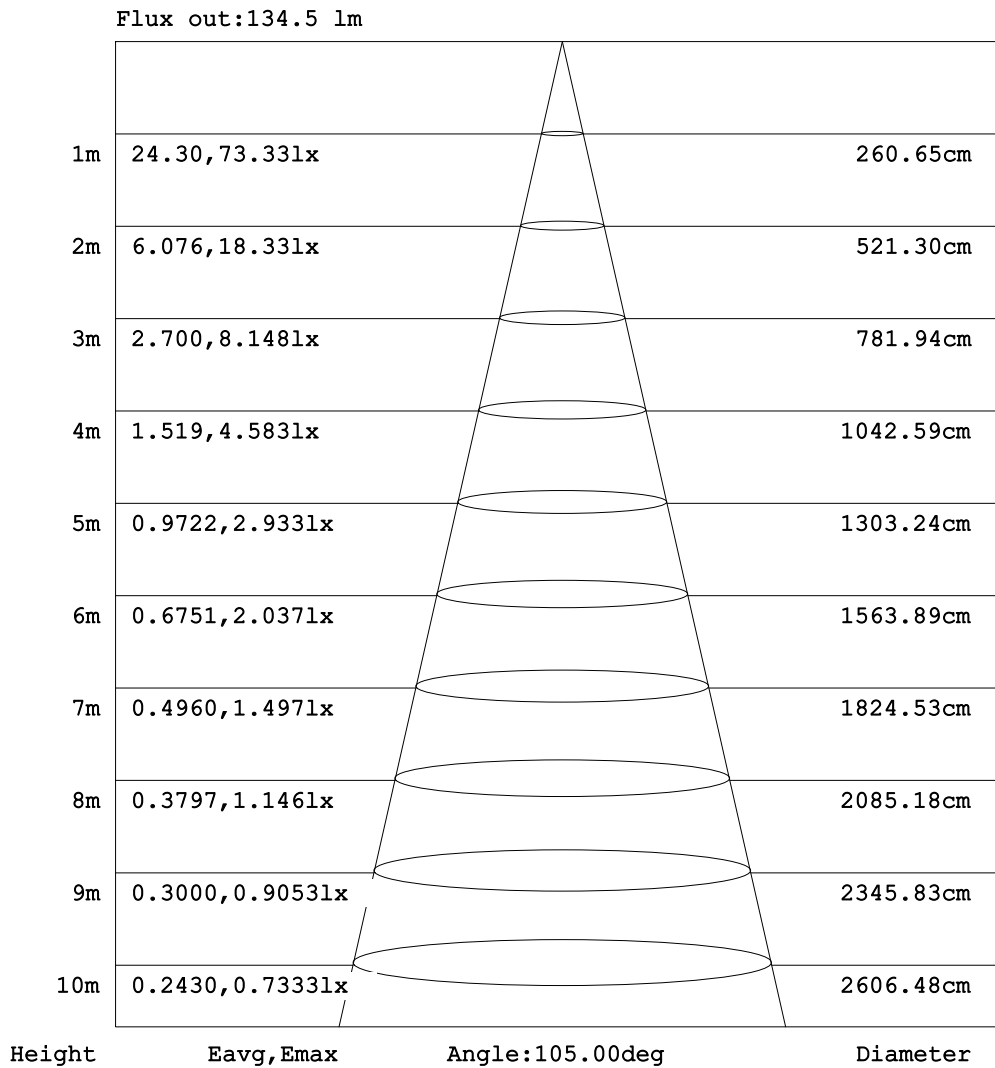


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JZ
Test Date:2023-08-08

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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:



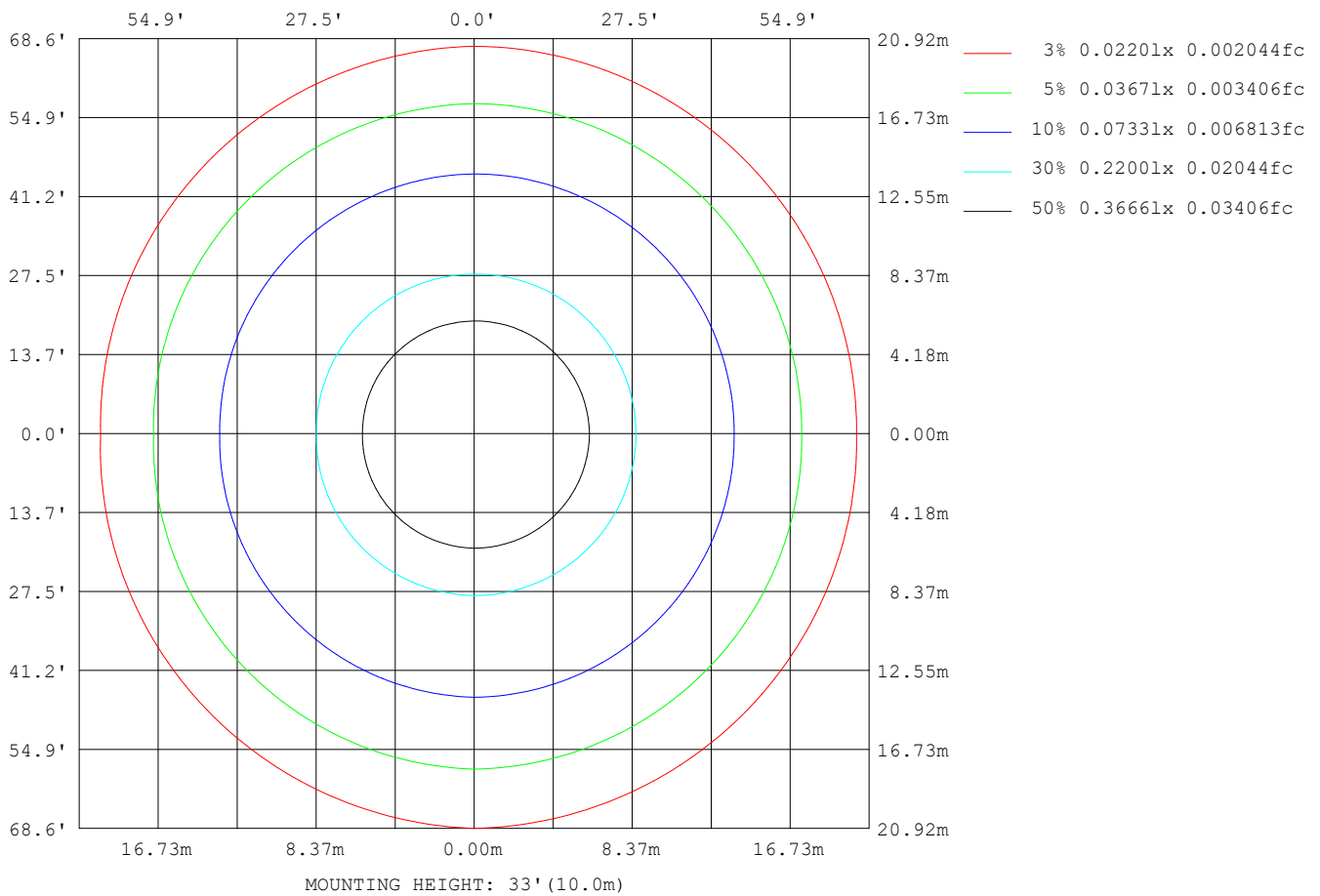
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:

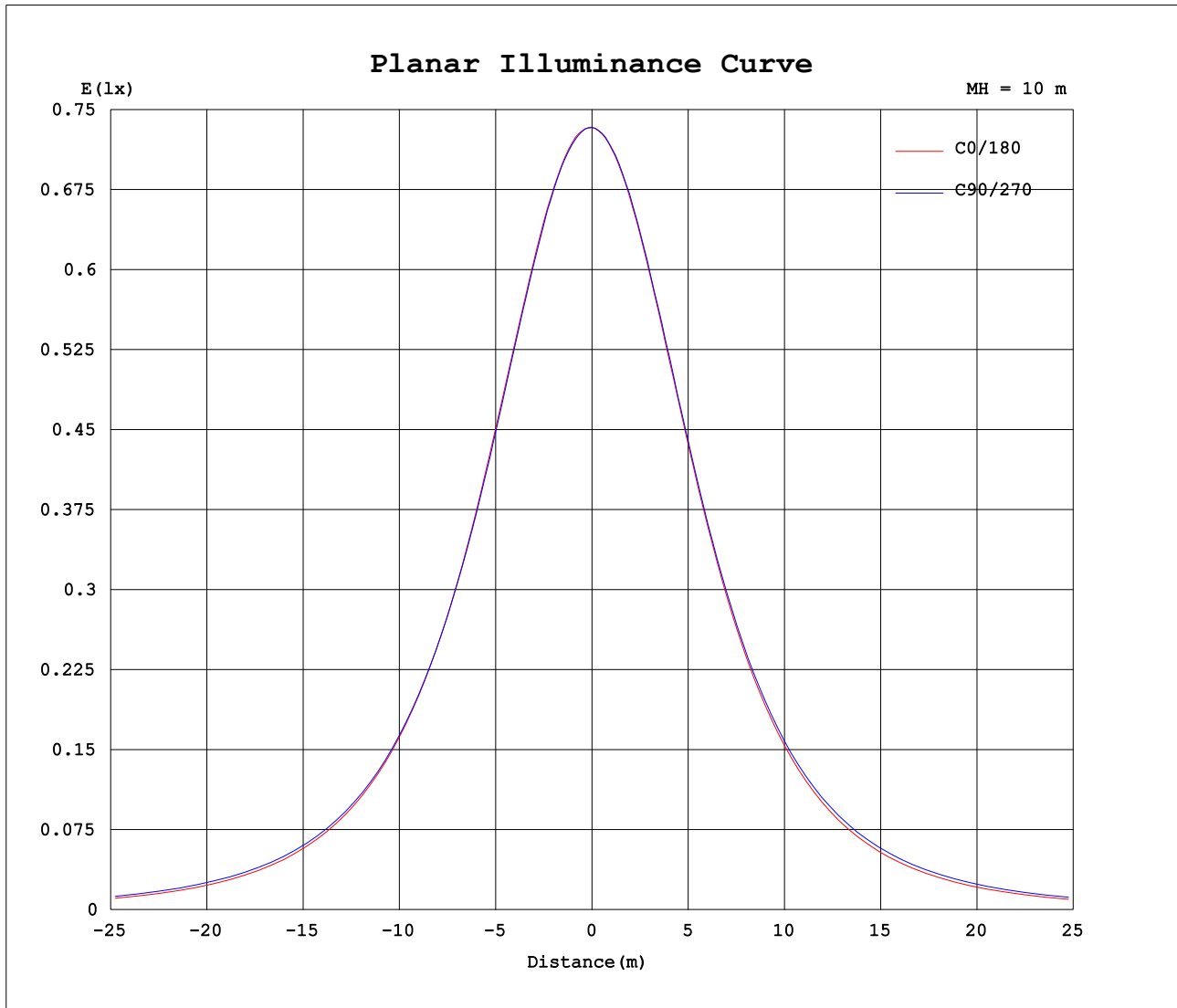
AvgL	cd/m2
L_0~180 (65) av	27133
L_0~180 (75) av	22892
L_0~180 (85) av	14067
L_90~270 (65) av	30776
L_90~270 (75) av	31458
L_90~270 (85) av	44323
L_45 (65) av	29337
L_45 (75) av	28146
L_45 (85) av	32793

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:24.002V I:0.1107A P:2.6570W PF:1.0000 Freq:0Hz Lamp Flux:214.198x1 lm		
NAME: RIBDC-8-35K-AM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: RAYHIL	SUR.: 0.01*0.2	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	73.3	73.3	73.3	73.3															
5	73.2	73.0	72.7	72.7															
10	72.0	71.9	71.2	71.3															
15	70.2	69.9	68.8	69.1															
20	67.5	67.2	65.8	66.2															
25	64.2	63.7	62.2	62.6															
30	60.2	59.8	58.0	58.5															
35	55.7	55.5	53.5	54.1															
40	50.9	50.9	48.6	49.4															
45	45.8	46.2	43.5	44.7															
50	40.5	41.4	38.2	39.9															
55	35.0	36.6	32.9	35.0															
60	29.4	31.7	27.5	30.1															
65	23.9	26.9	22.0	25.2															
70	18.3	22.0	16.5	20.3															
75	12.7	17.2	11.0	15.3															
80	7.44	12.7	5.99	7.97															
85	2.97	8.84	1.94	6.62															
90	0.37	6.32	0.09	5.64															
95	0.09	5.87	0.10	5.64															
100	0.01	5.76	0.10	5.65															
105	0.01	5.72	0.12	5.62															
110	0.04	5.64	0.15	5.58															
115	0.06	5.48	0.16	5.48															
120	0.11	5.28	0.18	5.28															
125	0.15	5.06	0.20	5.05															
130	0.16	4.72	0.22	4.75															
135	0.17	4.33	0.25	3.87															
140	0.18	3.72	0.26	1.73															
145	0.18	2.04	0.28	0.31															
150	0.22	0.65	0.30	0.31															
155	0.25	0.37	0.32	0.32															
160	0.28	0.35	0.34	0.32															
165	0.31	0.35	0.34	0.33															
170	0.32	0.35	0.33	0.34															
175	0.32	0.36	0.33	0.35															
180	0.34	0.36	0.33	0.36															

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: