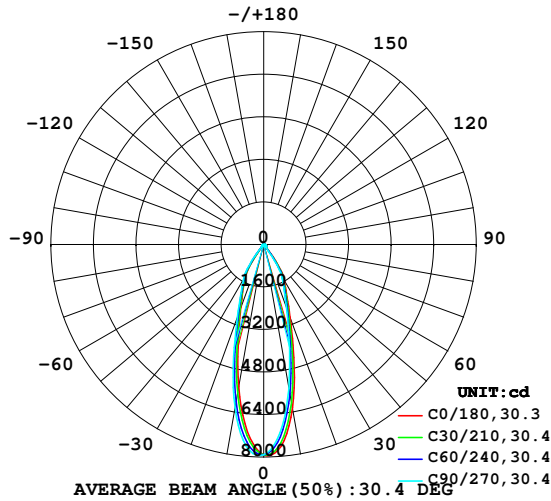


LUMINAIRE PHOTOMETRIC TEST REPORT

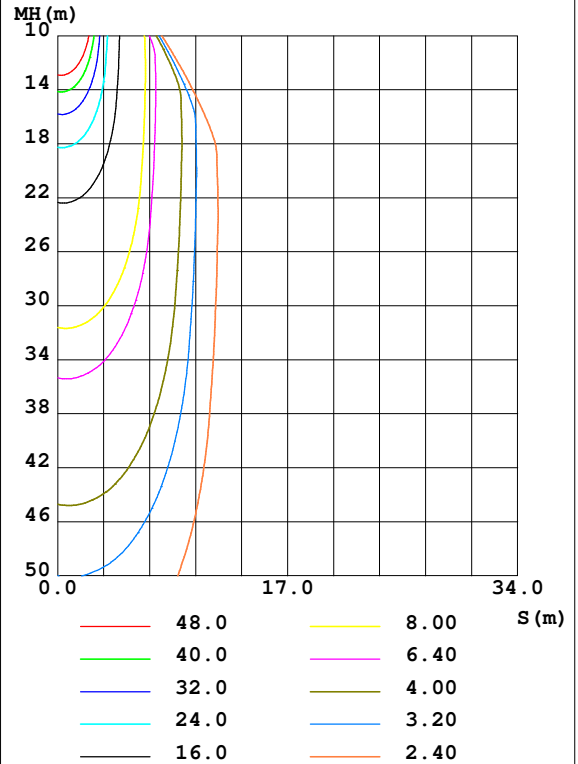
Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.60 lm/W			
MODEL	RLP	Imax (cd)	7957	S/MH (C0/180)	0.47
NOMINAL POWER(W)	36	LOR (%)	100.0	S/MH (C90/270)	0.54
RATED VOLTAGE(V)	220.0	TOTAL FLUX (lm)	3386.1	η UP, DN (C0-180)	0.0, 48.1
NOMINAL FLUX (lm)	3386.13	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.200m [K=1.0000]
 Remarks: RLP-36W

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6241	5866	5488	5429	5434	5835	6233	6249	0- 10	652.4	652.4	19.3,19.3
20	2913	2681	2514	2514	2537	2711	2896	2902	10- 20	1120	1773	52.4,52.4
30	1529	1444	1373	1368	1386	1440	1518	1510	20- 30	896.5	2669	78.8,78.8
40	163.3	135.4	126.6	124.1	123.7	135.0	161.5	164.1	30- 40	459.7	3129	92.4,92.4
50	98.50	96.27	92.51	91.56	91.08	94.43	98.10	98.80	40- 50	84.46	3214	94.9,94.9
60	70.76	67.91	64.03	62.96	62.47	66.13	70.33	70.90	50- 60	72.85	3286	97.1,97.1
70	47.60	45.41	42.97	42.03	41.21	43.79	47.02	47.65	60- 70	54.42	3341	98.7,98.7
80	22.26	20.44	18.25	17.75	17.53	19.51	21.85	21.88	70- 80	34.86	3376	99.7,99.7
90	1.308	0.0289	0.0182	0.0182	0.0358	0.0289	0.9084	1.040	80- 90	10.43	3386	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3172.9 lm

%lum = 93.7%

%lamp = 93.7%

Conical surface Flux(120deg): 3286.4 lm

%lum = 97.1%

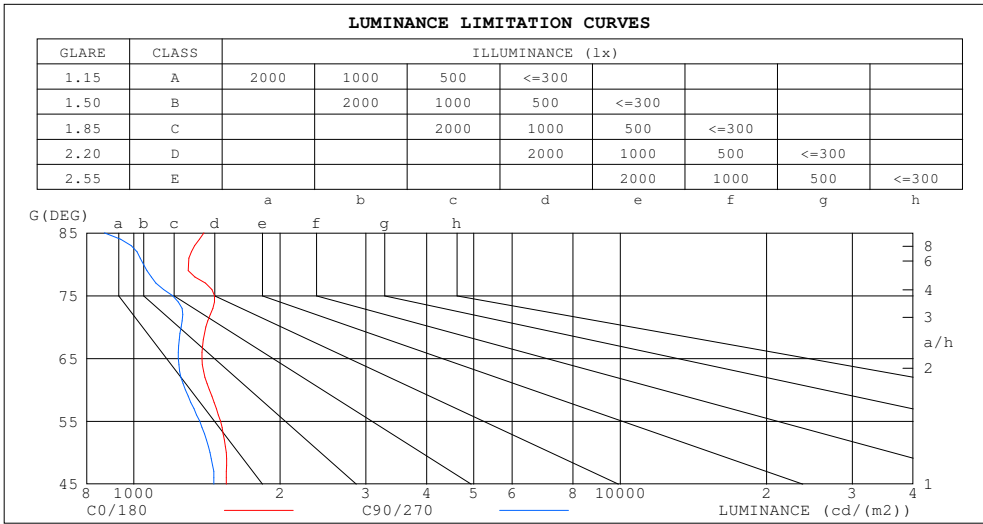
%lamp = 97.1%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:LITPA
 Test Date:18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity:65.0%
 Test Distance:7.200m [K=1.0000]
 Remarks: RLP-36W

LUMINANCE LIMITATION CURVES

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1395	870
80	1296	1047
75	1464	1201
70	1407	1252
65	1381	1235
60	1430	1276
55	1507	1367
50	1549	1435
45	1551	1461

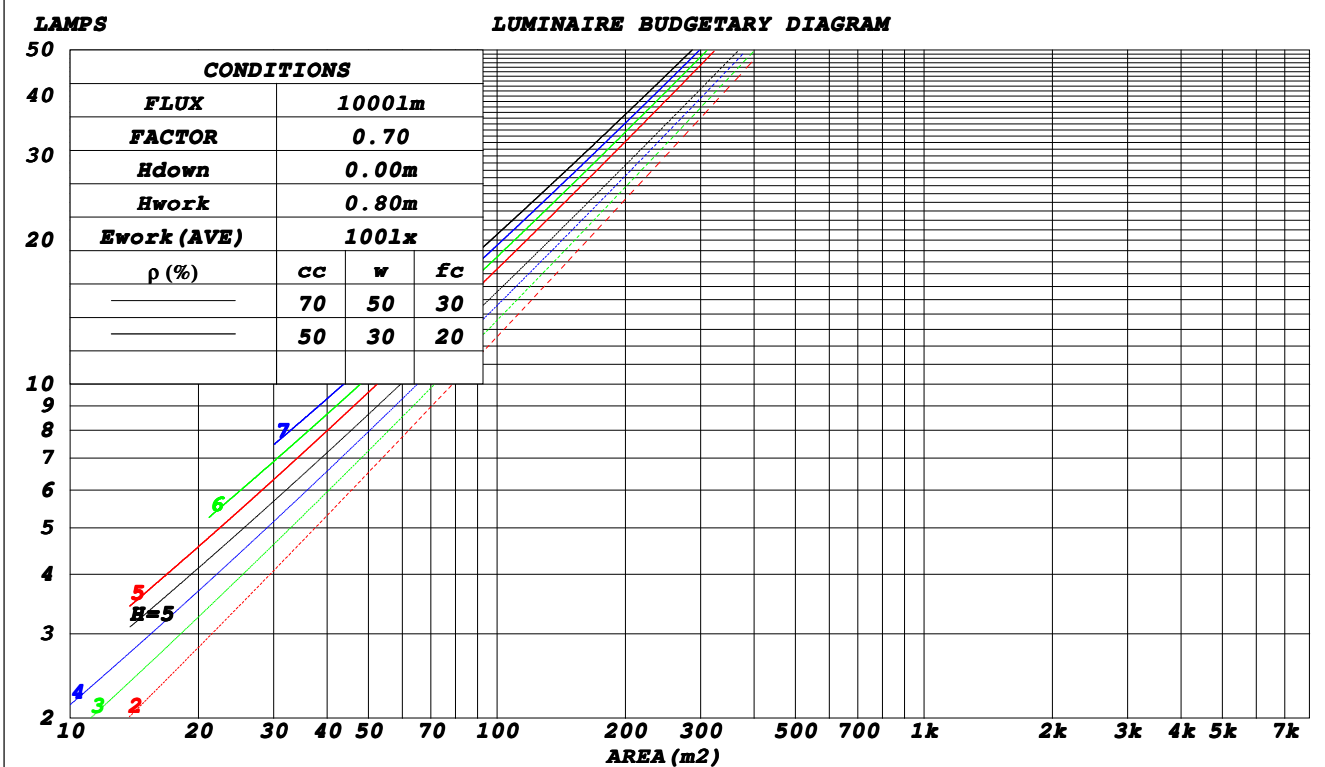
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: RLP-36W

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.08	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.98	.98	.98	.96	.95	.94
2.0	1.04	.96	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.88	.84	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.82	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.76	.73	.80	.76	.72	.79	.75	.72	.77	.74	.71	.70
7.0	.78	.73	.69	.78	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.68	.66
8.0	.75	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.63
9.0	.71	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.60
10.0	.68	.63	.59	.68	.63	.59	.67	.62	.59	.66	.62	.59	.66	.62	.59	.58



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: RLP-36W

WEC AND CCEC

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.175	.100	.032	.169	.096	.031	.156	.090	.029	.145	.083	.027	.134	.078	.025		
2.0	.165	.090	.028	.159	.088	.027	.149	.083	.026	.139	.078	.024	.130	.074	.023		
3.0	.155	.082	.025	.150	.080	.024	.141	.077	.023	.133	.073	.022	.125	.069	.021		
4.0	.146	.076	.022	.142	.074	.022	.134	.071	.021	.127	.068	.021	.120	.065	.020		
5.0	.138	.070	.020	.134	.069	.020	.128	.066	.020	.121	.064	.019	.116	.062	.019		
6.0	.130	.065	.019	.127	.064	.019	.122	.062	.018	.116	.060	.018	.111	.058	.017		
7.0	.124	.061	.017	.121	.060	.017	.116	.059	.017	.111	.057	.017	.107	.056	.016		
8.0	.118	.058	.016	.116	.057	.016	.111	.056	.016	.107	.054	.016	.103	.053	.015		
9.0	.113	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.099	.050	.015		
10.0	.108	.052	.014	.106	.051	.014	.102	.050	.014	.099	.049	.014	.096	.048	.014		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.096	.058	.032	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.028	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: RLP-36W

UGR(Unified Glare Rating) Table

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm										
NAME: RLP					TYPE:LED			WEIGHT:1 kg		
SPEC.:36W					DIM.: Ø:90 , H:277mm			SERIAL No.:		
MFR.: LITPA AYDINLATMA					SUR.:			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				
x = 2H y = 2H						Viewed endwise				
3H						11.7	12.5	11.9	12.7	12.9
4H						10.2	11.1	10.4	11.2	11.4
6H						10.8	11.6	11.1	11.8	12.0
8H						11.2	12.0	11.5	12.2	12.4
12H						11.4	12.2	11.7	12.4	12.6
4H						11.5	12.2	11.8	12.5	12.7
6H						11.6	12.2	11.9	12.5	12.8
8H						12.2	13.0	12.3	12.8	13.2
12H						12.4	12.8	12.9	13.2	13.7
4H						12.6	13.0	13.1	13.4	13.9
6H						12.8	13.1	13.2	13.5	14.0
8H						12.9	13.6	13.2	13.9	14.1
12H						13.0	13.4	13.4	13.8	14.2
4H						13.5	13.8	13.9	14.3	14.7
6H						13.7	14.1	14.1	14.5	14.9
8H						13.9	14.2	14.4	14.7	15.1
12H						14.0	14.0	14.0	14.4	14.8
4H						14.1	14.3	14.3	14.7	15.1
6H						14.2	14.4	14.4	14.8	15.2
8H						14.3	14.5	14.5	14.9	15.3
12H						14.4	14.6	14.6	15.0	15.4
Variations with the observer position at spacings:										
S = 1.0H						+ 1.7 / - 0.7				
1.5H						+ 3.2 / - 0.6				
2.0H						+ 0.2 / - 0.3				

CIE Pub.117, 3386 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.2$)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.200m [K=1.0000]
 Remarks: RLP-36W

UTILIZATION FACTORS TABLE

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

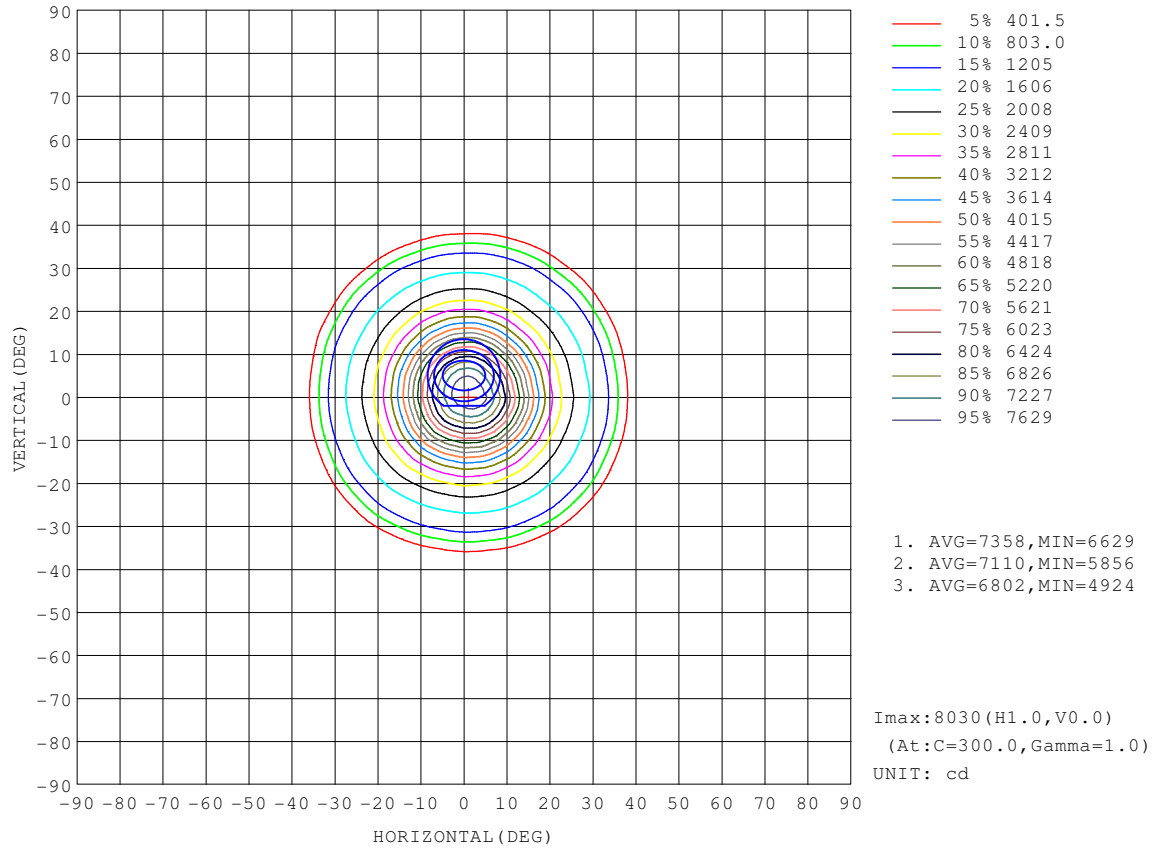
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	77	86	80	76	73
0.80	94	88	84	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	102	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	106	103	99	104	101	98	93
2.50	110	106	103	108	104	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators: LITPA
 Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
 Humidity: 65.0%
 Test Distance: 7.200m [K=1.0000]
 Remarks: RLP-36W

ISOCANDELA DIAGRAM

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

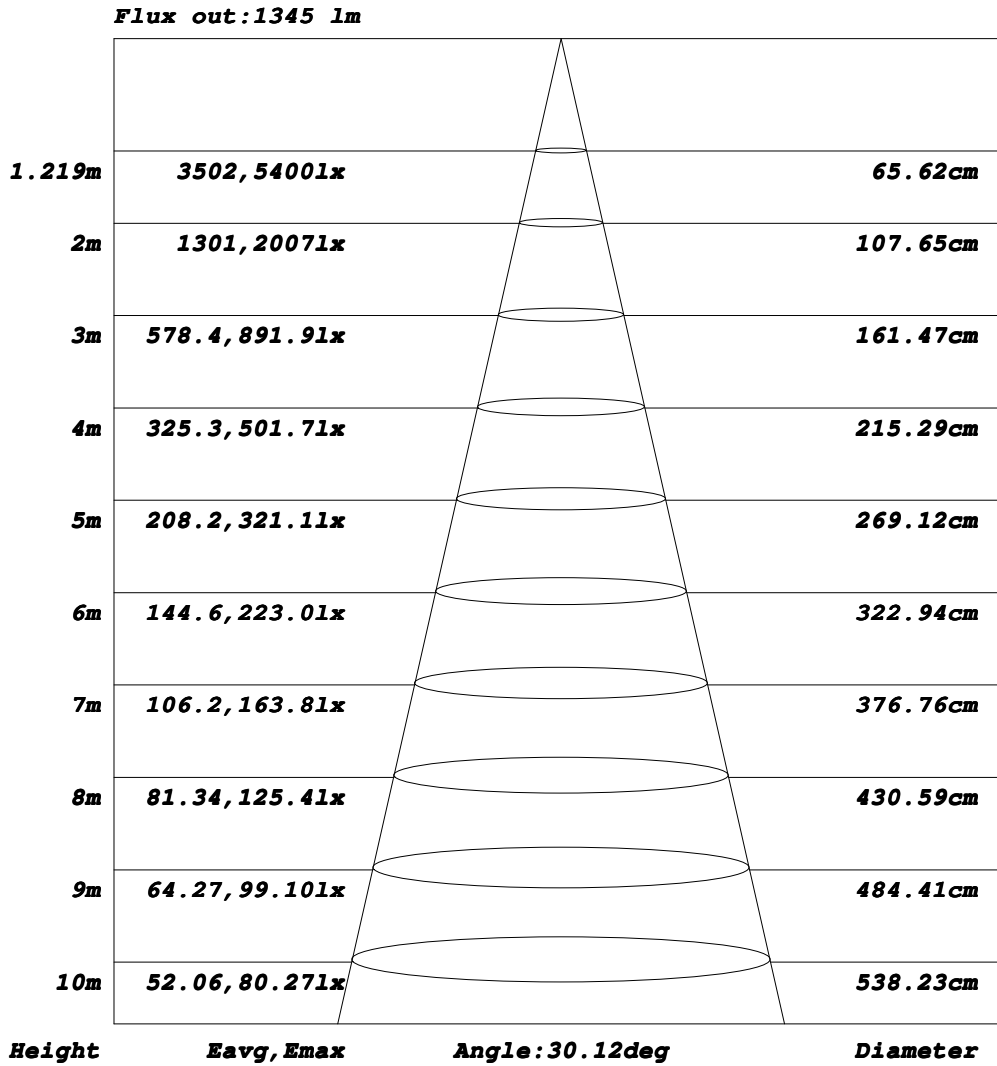


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:LITPA
Test Date:18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.200m [K=1.0000]
Remarks: RLP-36W

AAI Figure

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



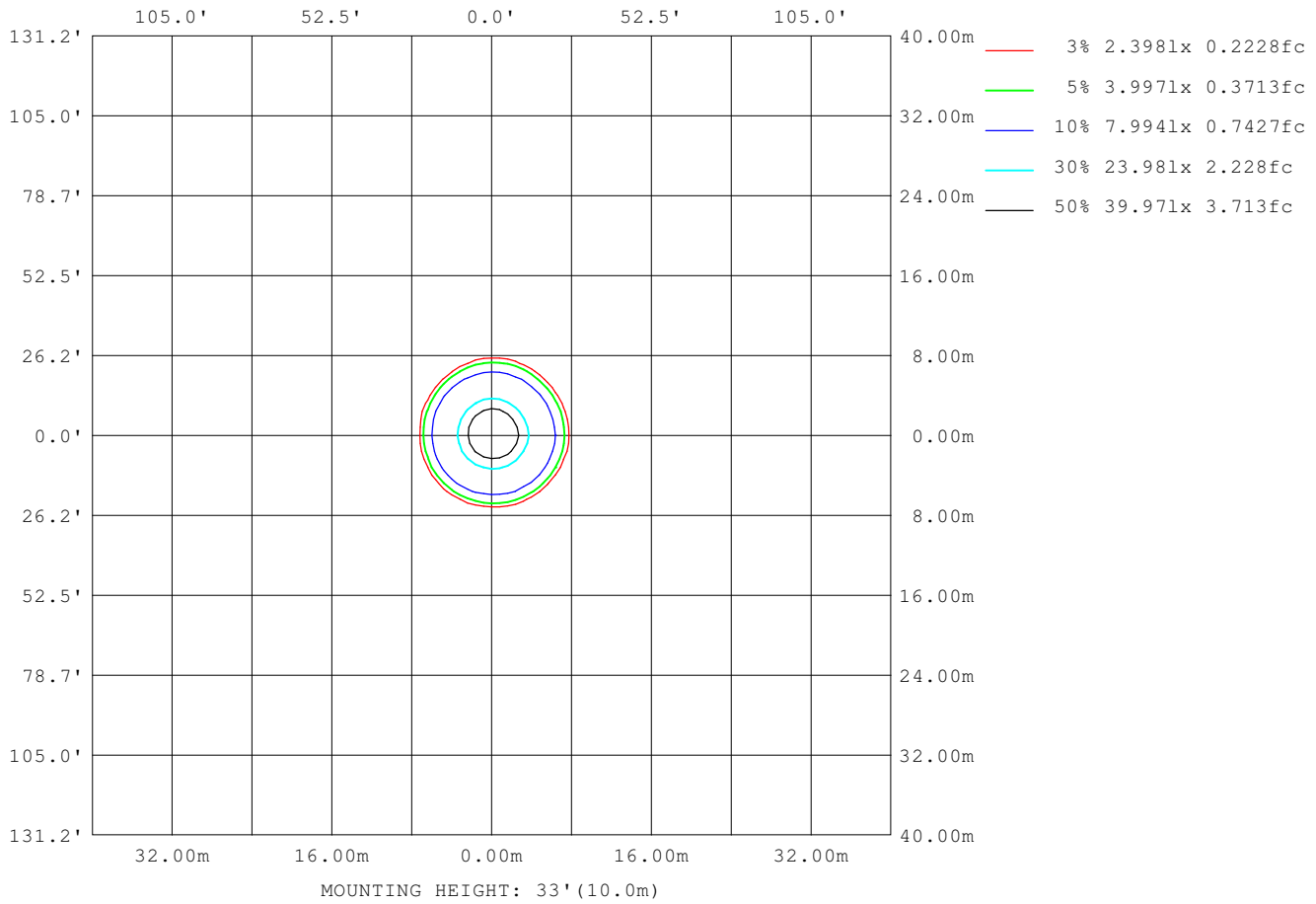
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:LITPA
Test Date:18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.200m [K=1.0000]
Remarks: RLP-36W

ISOLUX DIAGRAM

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: RLP-36W

LED Avg.L Report

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

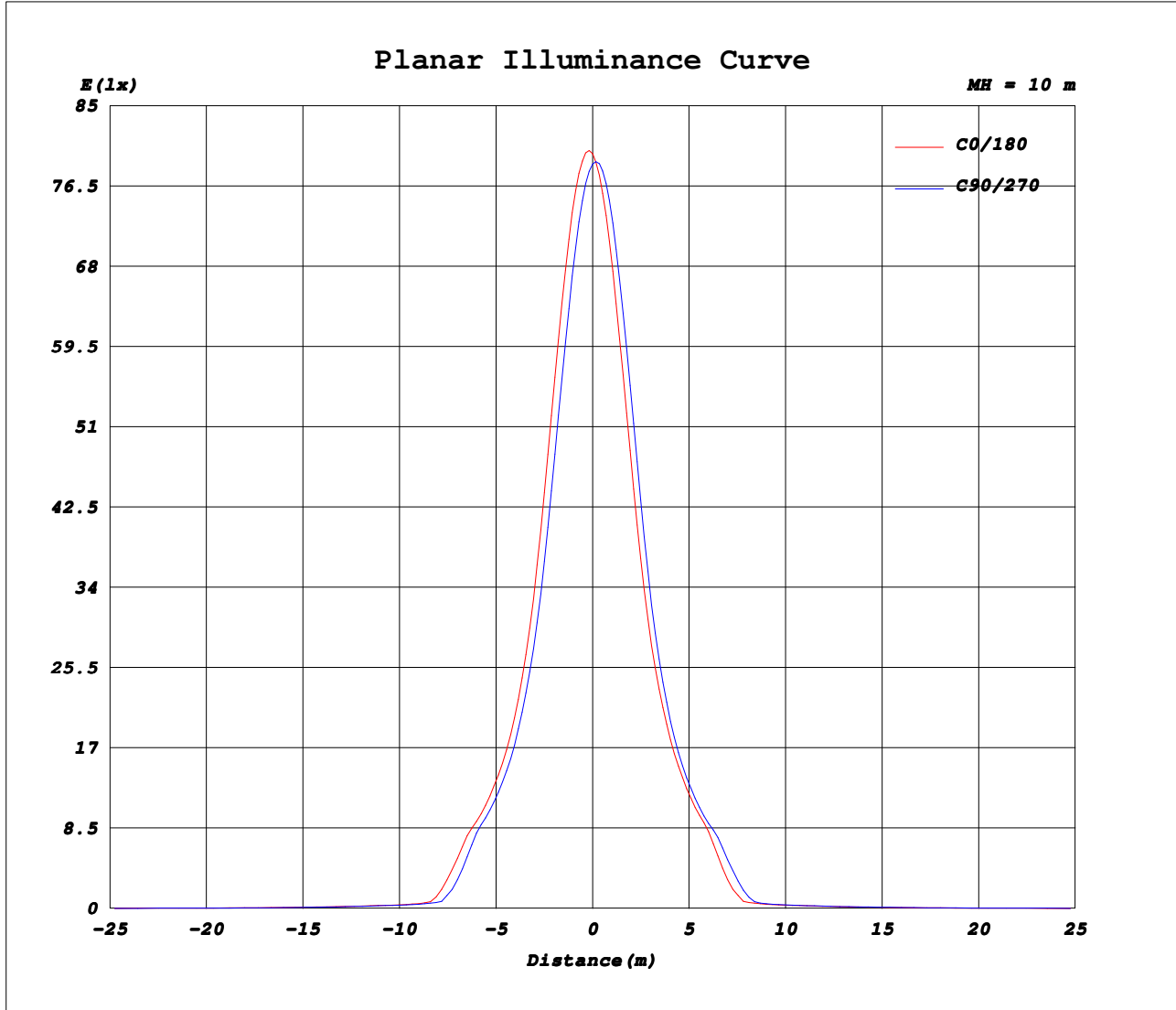
AvgL	cd/m2
L_0~180 (65) av	1284
L_0~180 (75) av	1300
L_0~180 (85) av	1107
L_90~270 (65) av	1297
L_90~270 (75) av	1312
L_90~270 (85) av	1084
L_45 (65) av	1290
L_45 (75) av	1307
L_45 (85) av	1092

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:LITPA
Test Date:18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.200m [K=1.0000]
Remarks: RLP-36W

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity: 65.0%
Test Distance: 7.200m [K=1.0000]
Remarks: RLP-36W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.200m [K=1.0000]
Remarks: RLP-36W

```

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.57V I:0.1629A P:36.177W PF:0.9629 Freq:50.01Hz Lamp Flux:3386.13x1 lm		
NAME: RLP	TYPE:LED	WEIGHT:1 kg
SPEC.:36W	DIM.: Ø:90 , H:277mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators: LITPA
Test Date: 18/05/2021

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:7.200m [K=1.0000]
Remarks: RLP-36W