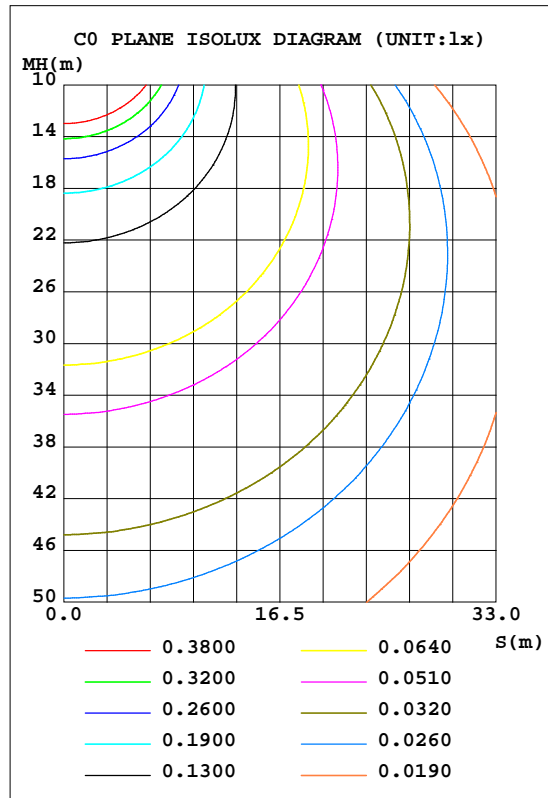
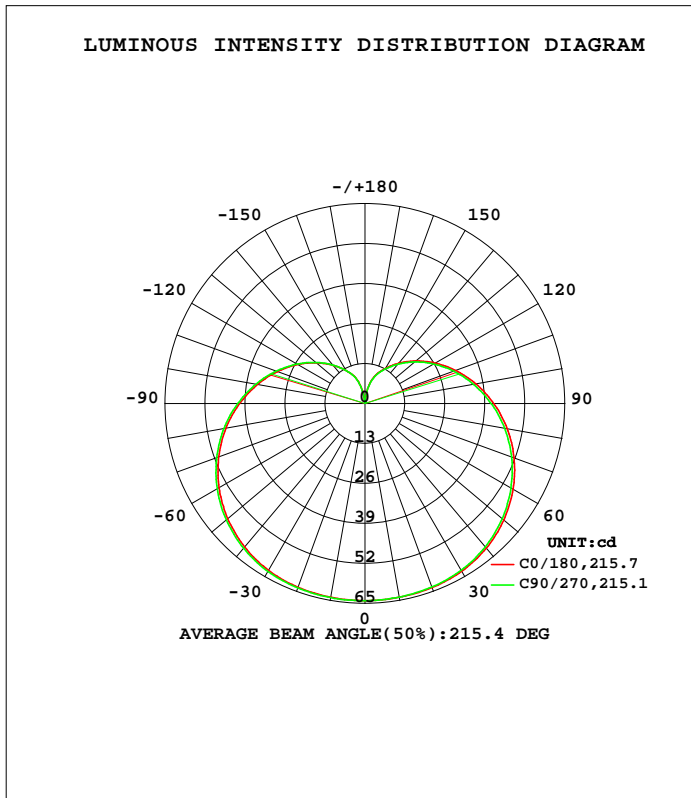


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.11 lm/W			
MODEL		I <sub>max</sub> (cd)	64.14	S/MH(C0/180)	1.48
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	499.90	h UP, DN(C0-180)	16.0, 34.2
NOMINAL FLUX(lm)	499.904	CIE CLASS	SEMI-D.	h UP, DN(C180-360)	15.6, 34.2
LAMPS INSIDE	1	h up(%)	31.6	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	h down(%)	68.4	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	63.99	63.92	63.99	64.10					0- 10	6.114	6.114	1.22,1.22
20	63.72	63.51	63.62	63.86					10- 20	18.09	24.21	4.84,4.84
30	62.96	62.60	62.64	63.10					20- 30	29.29	53.50	10.7,10.7
40	61.41	60.85	60.91	61.43					30- 40	38.97	92.46	18.5,18.5
50	58.94	58.25	58.28	58.87					40- 50	46.39	138.9	27.8,27.8
60	55.61	54.83	54.76	55.47					50- 60	51.06	189.9	38,38
70	51.58	50.74	50.59	51.30					60- 70	52.75	242.7	48.5,48.5
80	46.93	46.08	45.87	46.54					70- 80	51.55	294.2	58.9,58.9
90	41.91	41.08	40.81	41.41					80- 90	47.83	342.0	68.4,68.4
100	36.71	35.93	35.59	36.10					90-100	42.22	384.3	76.9,76.9
110	31.47	30.79	30.39	30.80					100-110	35.43	419.7	84,84
120	26.39	25.79	25.38	25.66					110-120	28.14	447.8	89.6,89.6
130	21.57	21.08	20.64	20.83					120-130	21.03	468.9	93.8,93.8
140	17.14	16.75	16.29	16.37					130-140	14.61	483.5	96.7,96.7
150	13.20	12.88	12.45	12.47					140-150	9.247	492.7	98.6,98.6
160	9.627	9.356	8.871	8.756					150-160	5.139	497.8	99.6,99.6
170	3.943	3.971	2.482	2.559					160-170	1.954	499.8	100,100
180	0.4762	0.4723	0.4756	0.4728					170-180	0.1006	499.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 114.9 lm

%lum = 23.0%  
 %lamp = 23.0%

Conical surface Flux(120deg): 189.91 lm

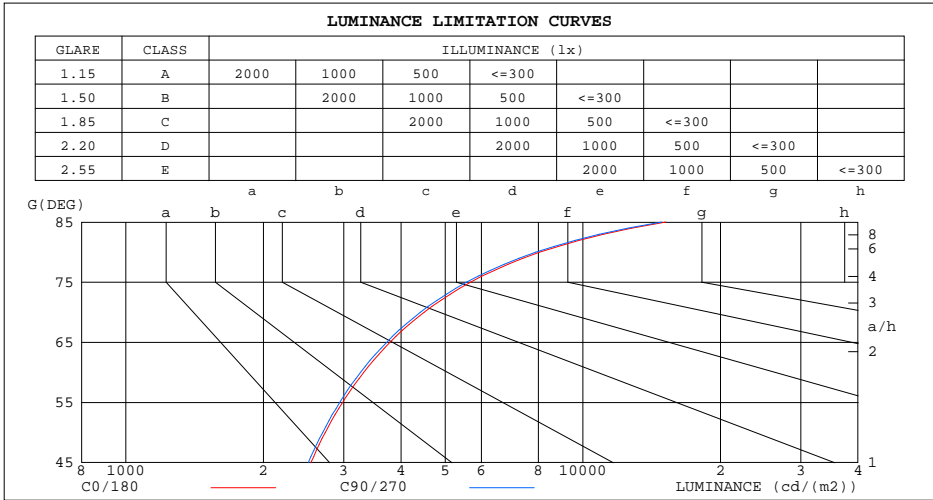
%lum = 38.0%  
 %lamp = 38.0%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.: Lotus LED Lights</b>	<b>SUR.: 21cm*16cm</b>	<b>Shielding Angle:</b>



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	15198	14877
80	8050	7892
75	5675	5566
70	4492	4411
65	3785	3720
60	3313	3261
55	2979	2935
50	2732	2695
45	2539	2509

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 June 2021

deg Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 3.200m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.415	.236	.075	.398	.227	.072	.366	.210	.067	.337	.194	.062	.310	.180	.058	
2.0	.349	.191	.059	.334	.184	.057	.305	.170	.053	.279	.156	.049	.254	.144	.045	
3.0	.306	.163	.049	.292	.156	.047	.266	.144	.044	.241	.132	.041	.219	.121	.037	
4.0	.273	.142	.042	.260	.136	.040	.236	.125	.037	.214	.115	.035	.193	.105	.032	
5.0	.246	.125	.036	.235	.120	.035	.213	.111	.033	.192	.101	.030	.173	.093	.028	
6.0	.224	.112	.032	.214	.108	.031	.194	.099	.029	.175	.091	.027	.157	.083	.025	
7.0	.206	.102	.029	.196	.098	.028	.178	.090	.026	.161	.082	.024	.144	.075	.022	
8.0	.191	.093	.026	.182	.089	.025	.165	.082	.023	.148	.075	.022	.133	.068	.020	
9.0	.177	.086	.024	.169	.082	.023	.153	.076	.021	.138	.069	.020	.124	.063	.018	
10.0	.165	.079	.022	.158	.076	.021	.143	.070	.020	.129	.064	.018	.116	.058	.017	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.431	.431	.431	.368	.368	.368	.251	.251	.251	.144	.144	.144	.046	.046	.046	
1.0	.430	.398	.369	.368	.341	.317	.252	.235	.219	.145	.136	.128	.046	.044	.041	
2.0	.424	.376	.335	.363	.324	.290	.249	.224	.202	.144	.130	.119	.046	.042	.039	
3.0	.417	.360	.315	.357	.311	.273	.245	.216	.191	.142	.126	.113	.046	.041	.037	
4.0	.409	.348	.301	.351	.301	.262	.241	.210	.184	.140	.123	.109	.045	.040	.036	
5.0	.402	.339	.292	.345	.293	.254	.238	.205	.180	.138	.120	.107	.044	.039	.035	
6.0	.394	.331	.286	.339	.287	.249	.234	.201	.176	.136	.118	.105	.044	.039	.035	
7.0	.387	.325	.281	.333	.281	.245	.230	.197	.174	.134	.116	.103	.043	.038	.034	
8.0	.380	.319	.277	.327	.277	.242	.227	.194	.172	.132	.115	.102	.043	.038	.034	
9.0	.374	.315	.275	.322	.273	.240	.223	.192	.170	.130	.113	.101	.042	.037	.034	
10.0	.368	.311	.272	.317	.270	.238	.220	.190	.169	.128	.112	.101	.042	.037	.033	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

NAME:		TYPE:					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.:Lotus LED Lights		SUR.:21cm*16cm					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	17.2	18.5	17.9	19.2	20.0	17.2	18.4	17.8	19.1	19.9	
3H	20.1	21.2	20.8	21.9	22.8	20.0	21.1	20.7	21.9	22.7	
4H	21.7	22.8	22.4	23.5	24.4	21.6	22.7	22.3	23.4	24.3	
6H	23.4	24.5	24.2	25.2	26.1	23.3	24.3	24.0	25.1	26.0	
8H	24.4	25.4	25.1	26.2	27.1	24.3	25.3	25.0	26.1	27.0	
12H	25.5	26.5	26.3	27.3	28.2	25.4	26.4	26.2	27.1	28.1	
4H 2H	18.1	19.2	18.8	19.9	20.8	18.1	19.2	18.8	19.9	20.8	
3H	21.1	22.1	21.9	22.9	23.8	21.1	22.0	21.8	22.8	23.7	
4H	22.9	23.7	23.6	24.5	25.5	22.8	23.7	23.6	24.5	25.4	
6H	24.8	25.6	25.6	26.4	27.4	24.7	25.5	25.5	26.3	27.3	
8H	25.9	26.6	26.7	27.4	28.4	25.8	26.5	26.6	27.3	28.3	
12H	27.1	27.8	27.9	28.6	29.7	27.0	27.7	27.8	28.5	29.5	
8H 4H	23.5	24.2	24.3	25.1	26.1	23.4	24.2	24.3	25.0	26.0	
6H	25.7	26.3	26.5	27.2	28.2	25.6	26.3	26.5	27.1	28.2	
8H	27.0	27.5	27.8	28.4	29.5	26.9	27.5	27.7	28.3	29.4	
12H	28.4	28.9	29.3	29.8	30.9	28.3	28.8	29.2	29.7	30.8	
12H 4H	23.7	24.4	24.5	25.2	26.2	23.6	24.3	24.4	25.1	26.2	
6H	26.0	26.6	26.8	27.4	28.5	25.9	26.5	26.8	27.4	28.4	
8H	27.4	27.9	28.2	28.7	29.8	27.3	27.8	28.2	28.7	29.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117, 499.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.4)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Lotus LED Lights	SUR.: 21cm*16cm	Shielding Angle:

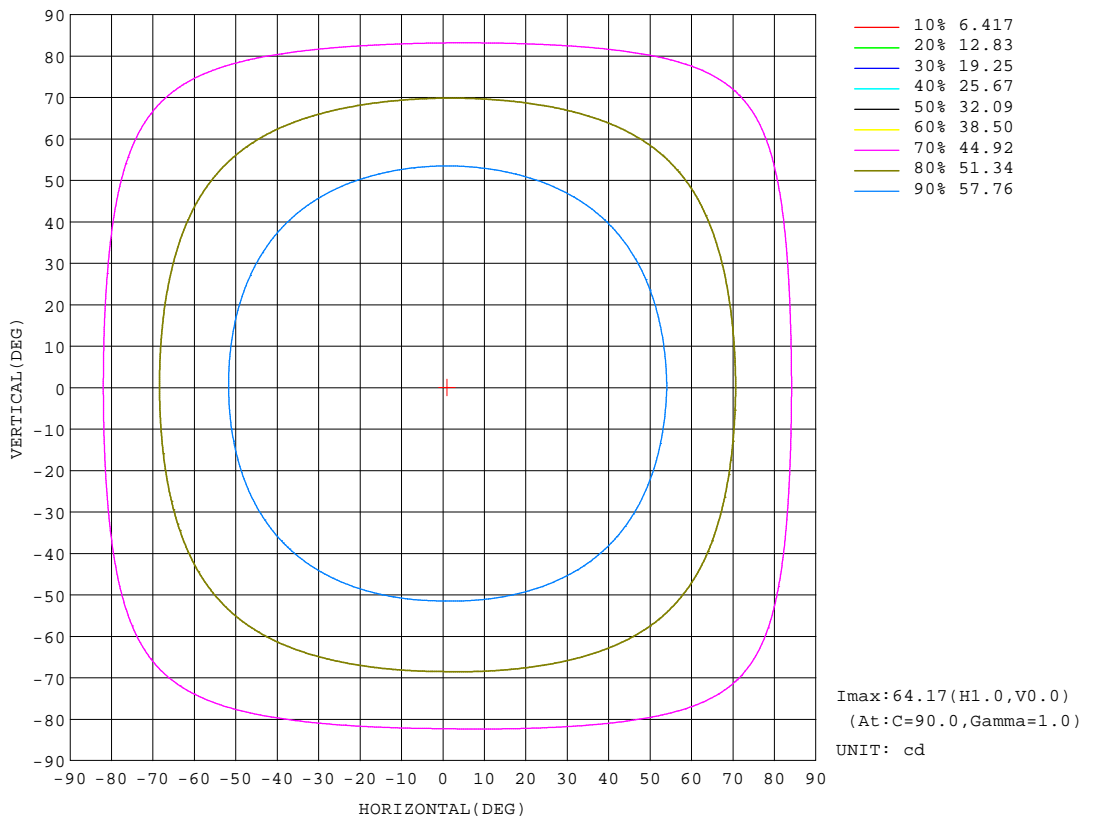
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	29	21	40	28	21	37	27	20	13
0.80	50	36	28	48	35	27	44	33	26	18
1.00	58	44	35	55	42	34	50	42	32	22
1.25	64	51	41	61	49	40	56	45	38	26
1.50	70	56	47	66	54	45	60	50	42	30
2.00	77	65	56	73	62	54	66	57	50	35
2.50	82	71	62	78	67	59	70	61	55	39
3.00	86	76	67	81	72	64	73	65	59	42
4.00	91	82	75	86	78	71	77	70	65	46
5.00	95	87	80	89	82	76	79	74	69	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 3.200m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.: Lotus LED Lights</b>	<b>SUR.: 21cm*16cm</b>	<b>Shielding Angle:</b>



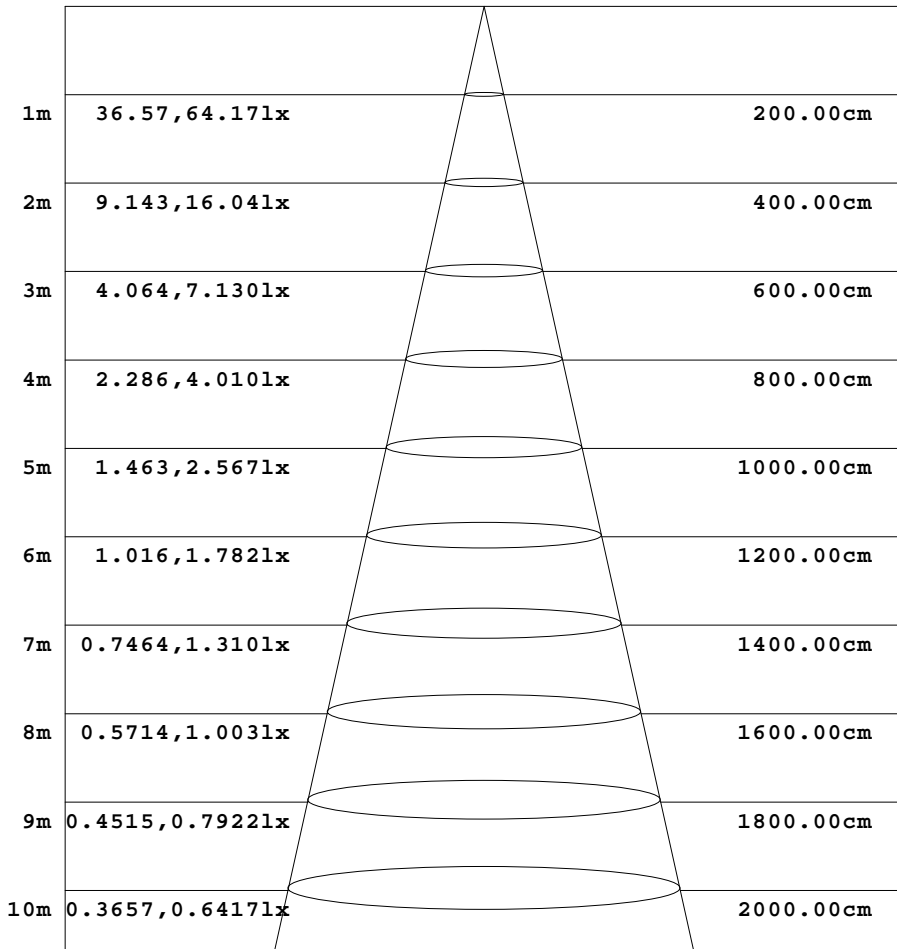
**C Range: 0 - 360DEG**  
**C Interval: 90.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 01 June 2021**

**Range: 0 - 180DEG**  
**Interval: 1.0DEG**  
**Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366**  
**Humidity: 65.0%**  
**Test Distance: 3.200m [K=1.0000]**  
**Remarks:**

**AAI Figure**

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

Flux out:114.9 lm



Height                      Eavg, Emax                      Angle:90.00deg                      Diameter

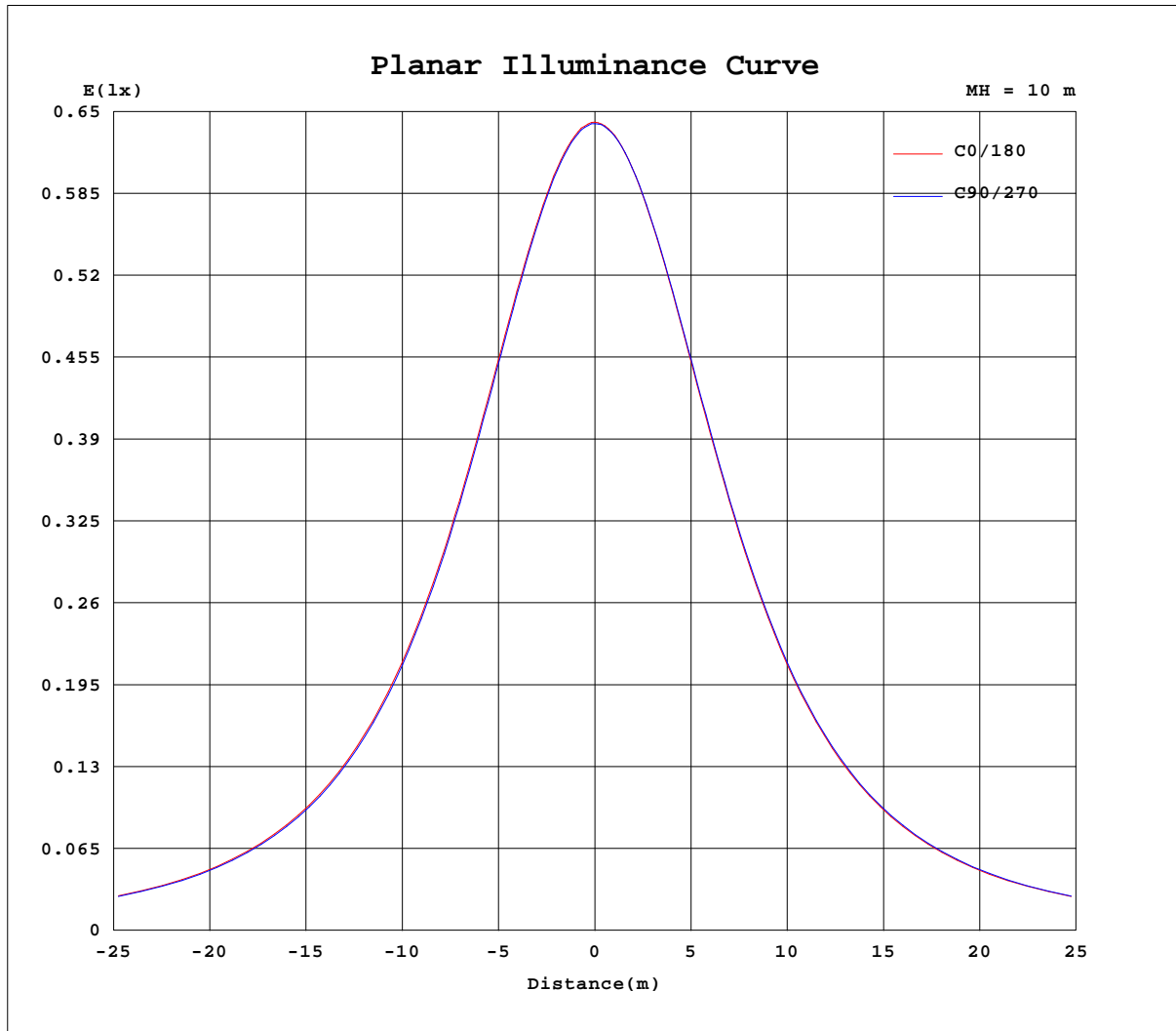
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 June 2021

Page Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 3.200m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	64.1	64.1	64.1	64.1															
5	64.1	64.0	64.1	64.1															
10	64.0	63.9	64.0	64.1															
15	63.9	63.7	63.8	64.0															
20	63.7	63.5	63.6	63.9															
25	63.4	63.1	63.2	63.6															
30	63.0	62.6	62.6	63.1															
35	62.3	61.8	61.9	62.4															
40	61.4	60.9	60.9	61.4															
45	60.3	59.7	59.7	60.3															
50	58.9	58.3	58.3	58.9															
55	57.4	56.6	56.6	57.3															
60	55.6	54.8	54.8	55.5															
65	53.7	52.9	52.8	53.5															
70	51.6	50.7	50.6	51.3															
75	49.3	48.4	48.3	49.0															
80	46.9	46.1	45.9	46.5															
85	44.5	43.6	43.4	44.0															
90	41.9	41.1	40.8	41.4															
95	39.3	38.5	38.2	38.8															
100	36.7	35.9	35.6	36.1															
105	34.1	33.4	33.0	33.4															
110	31.5	30.8	30.4	30.8															
115	28.9	28.3	27.9	28.2															
120	26.4	25.8	25.4	25.7															
125	23.9	23.4	23.0	23.2															
130	21.6	21.1	20.6	20.8															
135	19.3	18.9	18.4	18.5															
140	17.1	16.8	16.3	16.4															
145	15.1	14.7	14.3	14.3															
150	13.2	12.9	12.5	12.5															
155	11.4	11.2	10.8	10.7															
160	9.63	9.36	8.87	8.76															
165	7.37	7.11	6.33	6.18															
170	3.94	3.97	2.48	2.56															
175	0.46	0.46	0.46	0.46															
180	0.48	0.47	0.48	0.47															

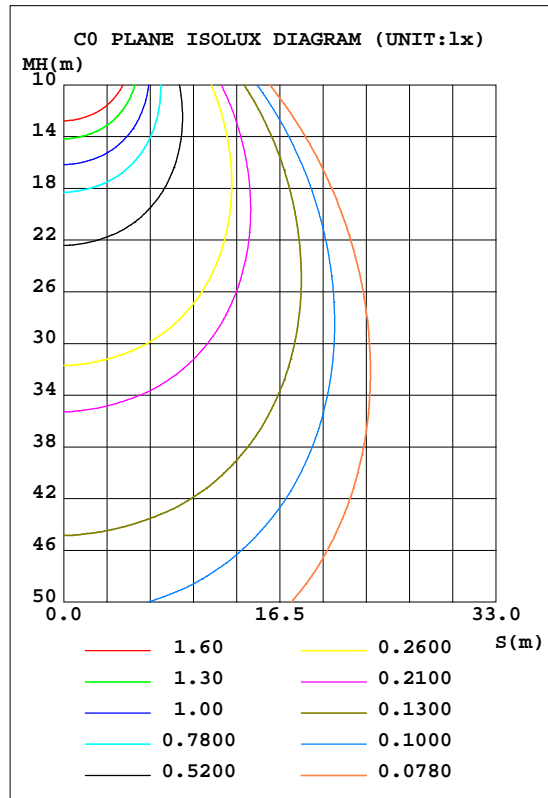
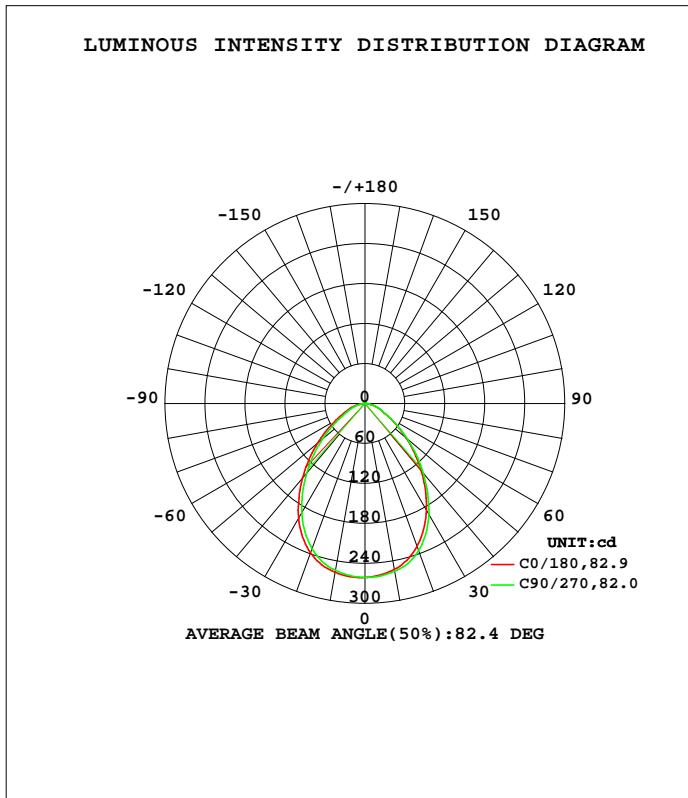
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.87 lm/W			
MODEL		I <sub>max</sub> (cd)	261.5	S/MH(C0/180)	1.15
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.11
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	491.05	h UP, DN(C0-180)	0.3,48.7
NOMINAL FLUX(lm)	491.053	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.8
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	h down(%)	99.5	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	252.9	255.7	257.2	254.4					0- 10	24.63	24.63	5.02,5.02
20	228.3	235.2	238.7	232.0					10- 20	69.45	94.09	19.2,19.2
30	184.4	192.1	199.3	189.8					20- 30	98.43	192.5	39.2,39.2
40	131.3	136.0	145.9	136.1					30- 40	102.7	295.2	60.1,60.1
50	81.42	83.61	93.47	83.42					40- 50	85.24	380.5	77.5,77.5
60	42.42	42.96	50.54	41.90					50- 60	56.84	437.3	89.1,89.1
70	22.31	22.38	25.82	21.51					60- 70	31.73	469.1	95.5,95.5
80	8.671	7.743	9.860	7.019					70- 80	16.49	485.5	98.9,98.9
90	0.0943	0.0611	0.1030	0.0126					80- 90	2.999	488.5	99.5,99.5
100	0.1498	0.1161	0.0747	0.0711					90-100	0.0758	488.6	99.5,99.5
110	0.3042	0.2405	0.1715	0.1614					100-110	0.1657	488.8	99.5,99.5
120	0.5168	0.4247	0.3011	0.3024					110-120	0.2954	489.1	99.6,99.6
130	0.7313	0.6293	0.4550	0.4651					120-130	0.4270	489.5	99.7,99.7
140	0.8740	0.8104	0.5618	0.6280					130-140	0.5035	490.0	99.8,99.8
150	0.8257	0.9285	0.5685	0.6499					140-150	0.4684	490.5	99.9,99.9
160	0.7429	0.8819	0.4947	0.6029					150-160	0.3317	490.8	100,100
170	0.7254	0.6952	0.5197	0.5551					160-170	0.1838	491.0	100,100
180	0.7345	0.7381	0.7318	0.7367					170-180	0.0613	491.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 341.02 lm

%lum = 69.4%  
 %lamp = 69.4%

Conical surface Flux(120deg): 437.32 lm

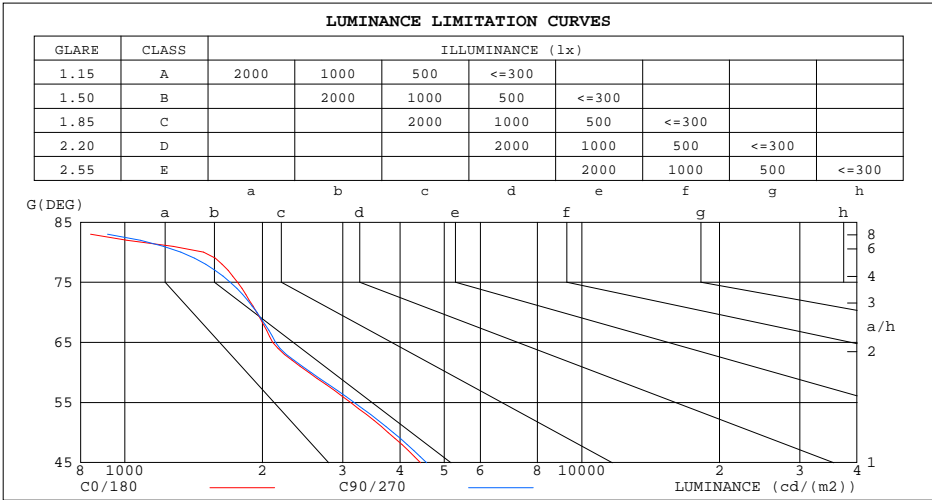
%lum = 89.1%  
 %lamp = 89.1%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Lotus LED Lights	SUR.: 21cm*16cm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	746	482
80	1487	1326
75	1764	1701
70	1943	1946
65	2108	2136
60	2526	2556
55	3122	3178
50	3772	3869
45	4435	4576

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 June 2021

deg Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 3.200m [K=1.0000]  
 Remarks:

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.252	.143	.045	.245	.140	.044	.232	.133	.042	.220	.127	.041	.208	.121	.039	
2.0	.243	.133	.041	.236	.130	.040	.225	.125	.039	.214	.120	.038	.204	.116	.036	
3.0	.229	.122	.036	.223	.120	.036	.213	.116	.035	.204	.112	.034	.195	.108	.033	
4.0	.215	.112	.033	.210	.110	.032	.201	.107	.032	.193	.103	.031	.185	.101	.031	
5.0	.201	.103	.030	.197	.101	.029	.189	.099	.029	.182	.096	.029	.175	.093	.028	
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.027	.172	.089	.026	.166	.087	.026	
7.0	.178	.088	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	.157	.081	.024	
8.0	.168	.082	.023	.165	.081	.023	.159	.079	.023	.154	.078	.022	.149	.076	.022	
9.0	.158	.077	.021	.156	.076	.021	.151	.074	.021	.146	.073	.021	.141	.072	.021	
10.0	.150	.072	.020	.148	.071	.020	.143	.070	.020	.139	.069	.020	.134	.068	.019	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.180	.161	.143	.154	.138	.123	.105	.095	.085	.061	.055	.049	.019	.018	.016	
2.0	.170	.136	.108	.145	.117	.093	.100	.081	.065	.057	.047	.038	.018	.015	.012	
3.0	.161	.118	.084	.138	.102	.073	.094	.071	.051	.055	.041	.030	.018	.013	.010	
4.0	.152	.104	.067	.131	.090	.059	.090	.063	.041	.052	.037	.024	.017	.012	.008	
5.0	.145	.093	.056	.124	.081	.048	.086	.056	.034	.050	.033	.020	.016	.011	.007	
6.0	.138	.085	.047	.119	.073	.041	.082	.051	.029	.047	.030	.017	.015	.010	.006	
7.0	.131	.078	.040	.113	.067	.035	.078	.047	.025	.045	.028	.015	.015	.009	.005	
8.0	.126	.072	.035	.108	.062	.031	.075	.044	.022	.043	.026	.013	.014	.008	.004	
9.0	.120	.067	.031	.103	.058	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
10.0	.115	.063	.028	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

NAME:		TYPE:					WEIGHT:				
SPEC.:		DIM.:					SERIAL No.:				
MFR.:Lotus LED Lights		SUR.:21cm*16cm					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	18.3	19.7	18.6	19.9	20.1	18.4	19.7	18.7	19.9	20.1
	3H	19.0	20.2	19.3	20.5	20.7	19.1	20.3	19.4	20.5	20.8
	4H	19.3	20.5	19.6	20.7	21.0	19.4	20.5	19.7	20.8	21.0
	6H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2
	8H	19.6	20.6	19.9	20.9	21.2	19.6	20.6	19.9	20.9	21.2
	12H	19.5	20.5	19.9	20.8	21.1	19.5	20.5	19.9	20.8	21.1
4H	2H	18.6	19.7	18.9	20.0	20.2	18.7	19.8	19.0	20.1	20.3
	3H	19.5	20.5	19.8	20.8	21.1	19.5	20.5	19.9	20.8	21.1
	4H	19.9	20.8	20.3	21.1	21.5	19.9	20.8	20.3	21.2	21.5
	6H	20.2	21.0	20.6	21.4	21.7	20.2	21.0	20.6	21.3	21.7
	8H	20.3	21.0	20.7	21.4	21.8	20.2	21.0	20.7	21.3	21.7
	12H	20.3	20.9	20.7	21.3	21.7	20.2	20.9	20.7	21.3	21.7
8H	4H	20.0	20.8	20.4	21.1	21.5	20.1	20.8	20.5	21.2	21.5
	6H	20.4	21.0	20.9	21.5	21.9	20.4	21.0	20.9	21.4	21.9
	8H	20.5	21.0	21.0	21.5	21.9	20.5	21.0	20.9	21.5	21.9
	12H	20.5	21.0	21.0	21.4	21.9	20.5	20.9	21.0	21.4	21.9
12H	4H	20.0	20.7	20.4	21.1	21.5	20.0	20.7	20.5	21.1	21.5
	6H	20.4	21.0	20.9	21.4	21.9	20.4	20.9	20.9	21.4	21.8
	8H	20.5	21.0	21.0	21.4	21.9	20.5	21.0	21.0	21.4	21.9
Variations with the observer position at spacings:											
S = 1.0H		+ 0.5 / - 0.6					+ 0.5 / - 0.6				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 1.1 / - 1.0					+ 1.1 / - 1.0				

CIE Pub.117, 491.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Lotus LED Lights	SUR.: 21cm*16cm	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	67	57	51	66	56	50	65	56	50	45
0.80	76	67	60	75	66	60	74	65	60	54
1.00	84	75	69	83	74	69	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	90	84	79	73
2.00	100	93	88	99	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

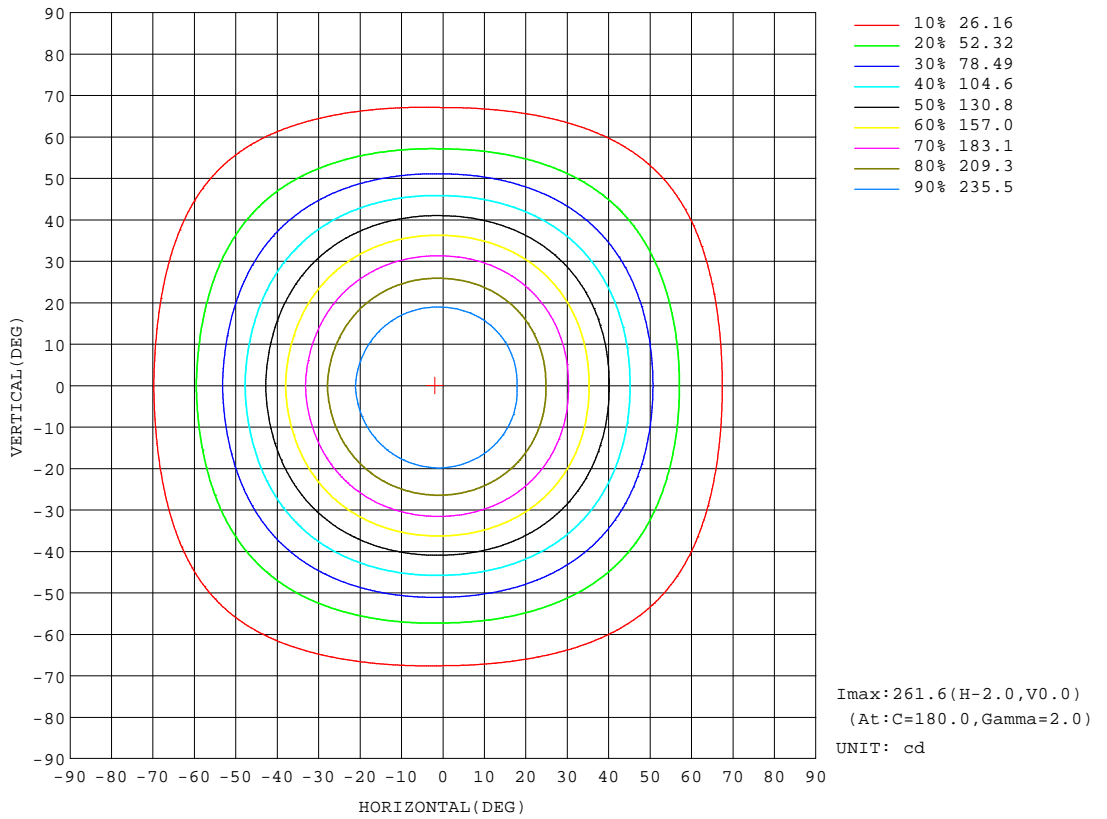
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 3.200m [K=1.0000]  
 Remarks:



**ISOCANDELA DIAGRAM**

<b>NAME:</b>	<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPEC.:</b>	<b>DIM.:</b>	<b>SERIAL No.:</b>
<b>MFR.: Lotus LED Lights</b>	<b>SUR.: 21cm*16cm</b>	<b>Shielding Angle:</b>



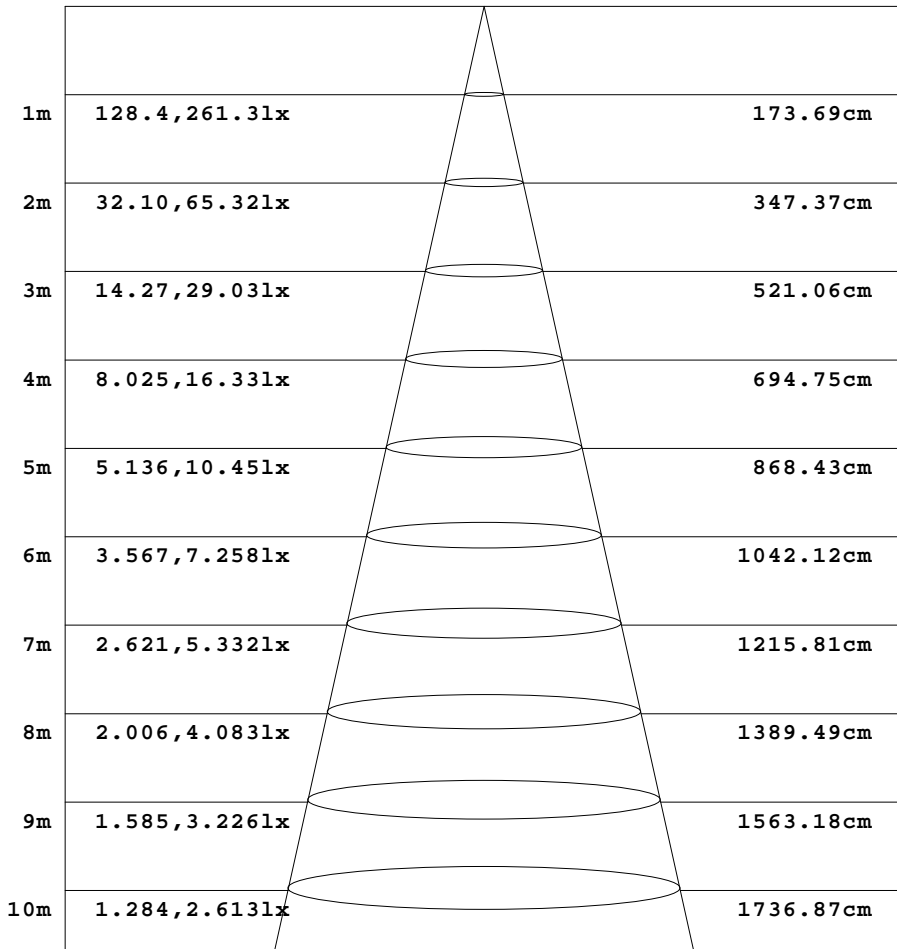
**C Range: 0 - 360DEG**  
**C Interval: 90.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 01 June 2021**

**Range: 0 - 180DEG**  
**Interval: 1.0DEG**  
**Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366**  
**Humidity: 65.0%**  
**Test Distance: 3.200m [K=1.0000]**  
**Remarks:**

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

Flux out:304.8 lm



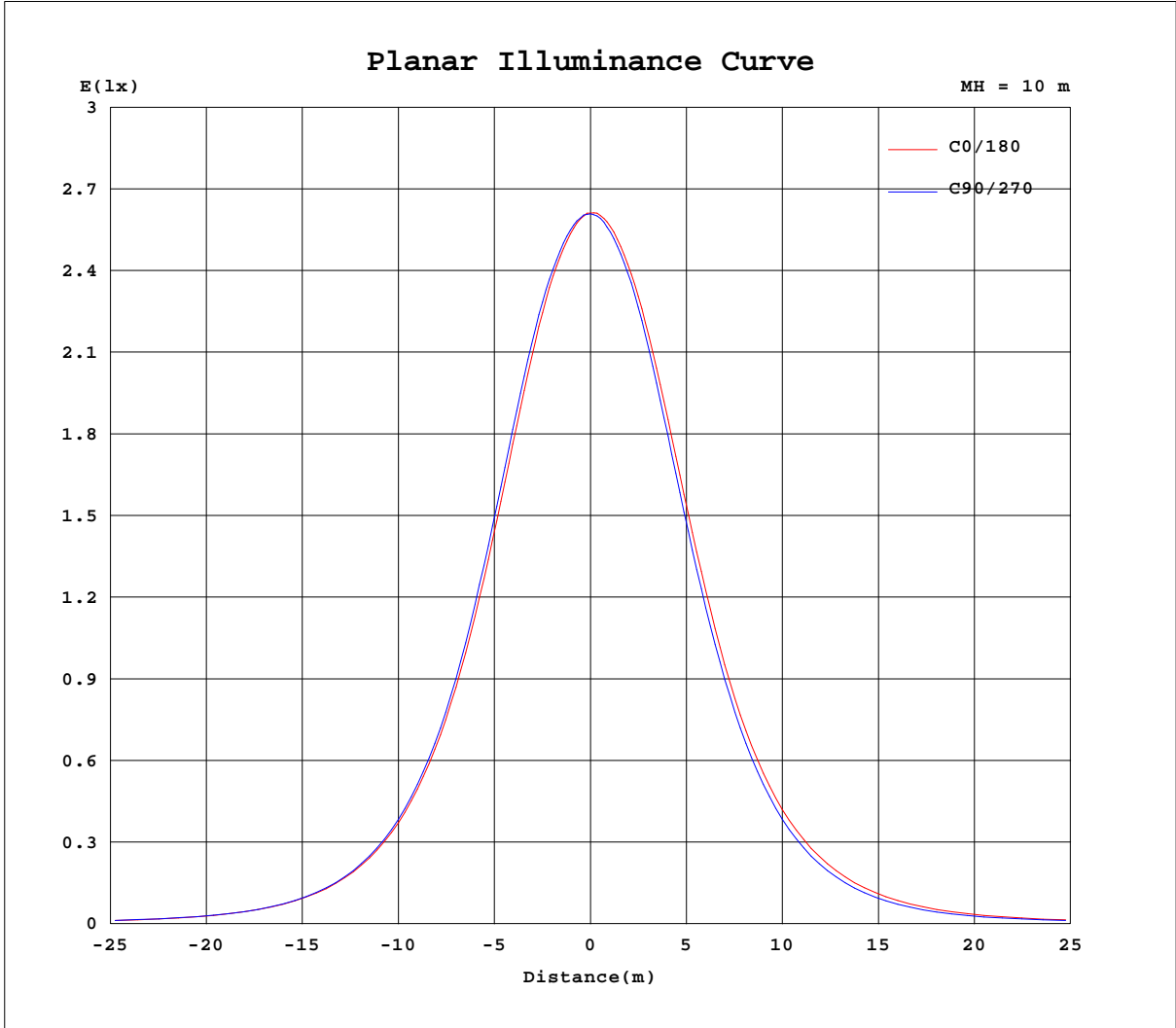
Height                      Eavg, Emax                      Angle:81.94deg                      Diameter

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:DAMIN  
 Test Date:01 June 2021

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:01 June 2021

Page Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
Humidity:65.0%  
Test Distance:3.200m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:Lotus LED Lights	SUR.:21cm*16cm	Shielding Angle:

Table--1 UNIT: cd

C(DEG) g (DEG)	0	90	180	270															
0	261	261	261	261															
5	258	260	261	259															
10	253	256	257	254															
15	244	249	251	246															
20	228	235	239	232															
25	208	216	222	213															
30	184	192	199	190															
35	158	164	173	163															
40	131	136	146	136															
45	105	109	119	109															
50	81.4	83.6	93.5	83.4															
55	60.1	61.3	70.5	60.7															
60	42.4	43.0	50.5	41.9															
65	29.9	30.3	35.0	29.4															
70	22.3	22.4	25.8	21.5															
75	15.3	14.8	18.3	14.1															
80	8.67	7.74	9.86	7.02															
85	2.18	1.41	3.94	0.72															
90	0.09	0.06	0.10	0.01															
95	0.11	0.08	0.04	0.04															
100	0.15	0.12	0.07	0.07															
105	0.22	0.17	0.12	0.11															
110	0.30	0.24	0.17	0.16															
115	0.40	0.33	0.23	0.23															
120	0.52	0.42	0.30	0.30															
125	0.62	0.53	0.38	0.38															
130	0.73	0.63	0.46	0.47															
135	0.82	0.74	0.53	0.54															
140	0.87	0.81	0.56	0.63															
145	0.87	0.89	0.58	0.67															
150	0.83	0.93	0.57	0.65															
155	0.78	0.93	0.52	0.64															
160	0.74	0.88	0.49	0.60															
165	0.71	0.80	0.47	0.58															
170	0.73	0.70	0.52	0.56															
175	0.70	0.70	0.61	0.60															
180	0.73	0.74	0.73	0.74															

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:01 June 2021

g Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:3.200m [K=1.0000]  
 Remarks: