

22 de marzo de 2022



Fideicomiso Financiero Paysandú II

LLAMADO A EXPRESIONES DE INTERÉS

Referencia FFPII 15/21

COMUNICADO Nro. 7

RESPUESTA A CONSULTAS

CONSULTA N°27:

Con respecto al apartado 3.5.2.1, punto b:

3.5.2.1 Documentos exigidos:

b. Un archivo de presentación multimedia autoejecutable (tipo: .otp de openoffice, .pps de microsoft, .swf de adobe flash, o similares) que explique el anteproyecto a efectos de su posterior difusión pública. Podrá tener una duración máxima de hasta 3 minutos.

Se realizan las siguientes consultas sobre la presentación multimedia:

1. ¿qué resolución mínima o máxima debe tener?
2. ¿puede contener música de fondo?
3. ¿puede tener palabra hablada que describa lo que se exhibe o solo texto en subtítulos?

RESPUESTA A CONSULTA N°27:

En caso de optarse por incluir la presentación en formato video deberá ser mediante archivos formato .mp4 exclusivamente, con una resolución mínima aceptable de 1280 x 720 pixeles (HD).

Se solicita que, al margen de que pueda existir una narración y/o música de fondo, la presentación pueda ser interpretada o comprendida cabalmente sin el audio, incluyendo si fuera necesario texto en forma de subtítulos o sobreimpresos.

Complemento a CONSULTA N°24:**Luminarias instaladas - Fotometría**

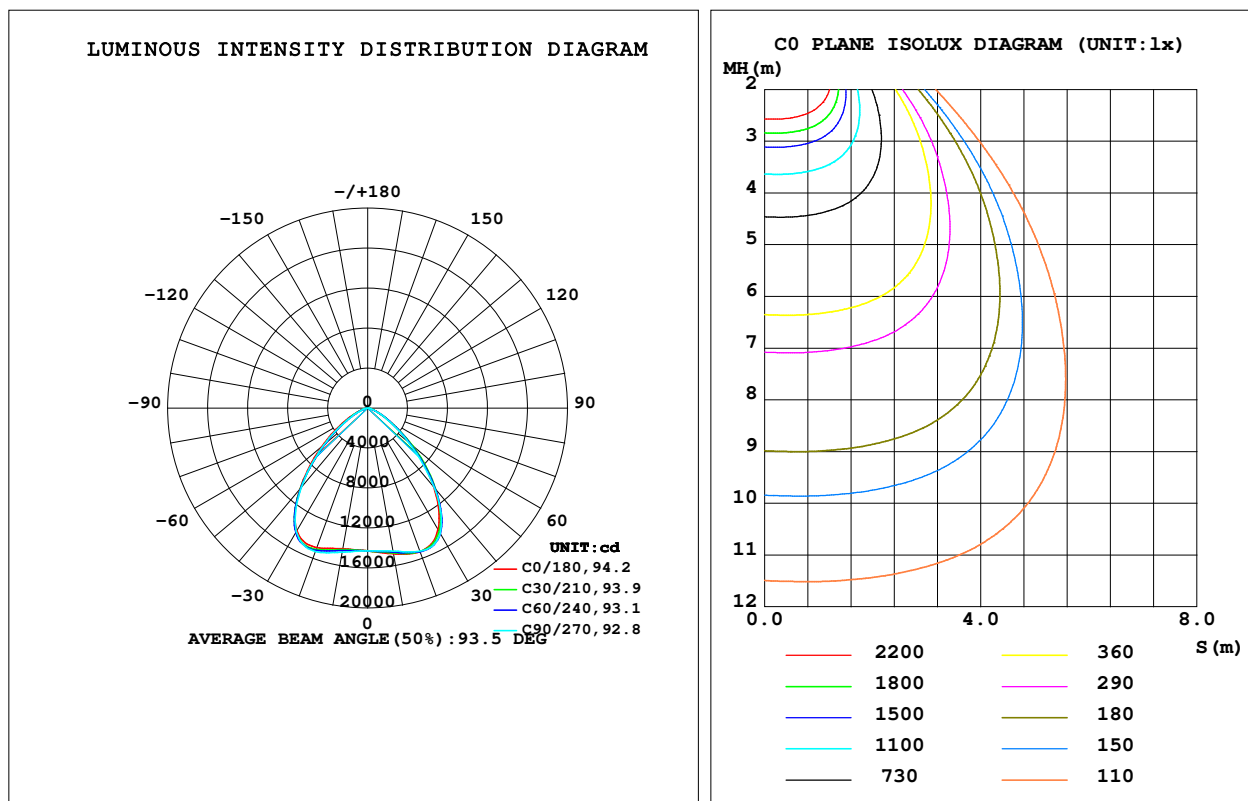
RESPUESTA:

Se envían a todos los interesados que completaron el registro en República Afisa los diagramas fotométricos e información técnica complementaria suministrada por la empresa Sportech, proveedora de las luminarias instaladas (en archivo .pdf adjunto).

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.82 lm/W			
MODEL	--	I _{max} (cd)	15435	S/MH (C0/180)	1.32
NOMINAL POWER (W)	--	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	31793	η UP, DN (C0-180)	0.0, 49.8
NOMINAL FLUX (lm)	31792.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	--	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

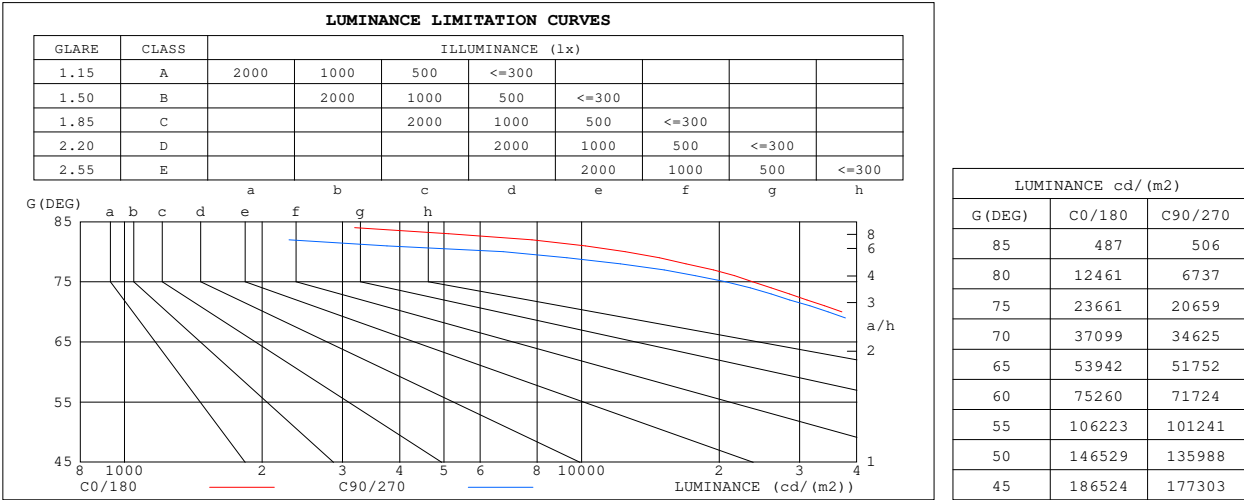
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1481	1465	1453	1441	1429	1444	1464	1476	0- 10	1378	1378	4.33, 4.33
20	1529	1525	1524	1505	1486	1506	1527	1541	10- 20	4232	5610	17.6, 17.6
30	1408	1439	1450	1406	1417	1435	1428	1431	20- 30	6920	12530	39.4, 39.4
40	1026	1062	1036	1016	1055	1039	1032	1025	30- 40	7817	20347	64, 64
50	569.8	583.5	538.9	555.0	603.1	545.7	569.1	567.9	40- 50	6102	26448	83.2, 83.2
60	227.7	238.6	221.1	242.8	270.2	227.7	223.3	262.7	50- 60	3443	29891	94, 94
70	76.77	72.96	73.01	78.98	89.22	75.27	67.29	81.80	60- 70	1462	31354	98.6, 98.6
80	13.09	11.99	7.212	10.36	15.27	10.33	7.849	14.45	70- 80	413.4	31767	99.9, 99.9
90	0.1759	0.2139	0.1360	0.1706	0.3829	0.3940	0.3643	0.4100	80- 90	25.62	31793	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: $\times 10\text{cd}$									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:



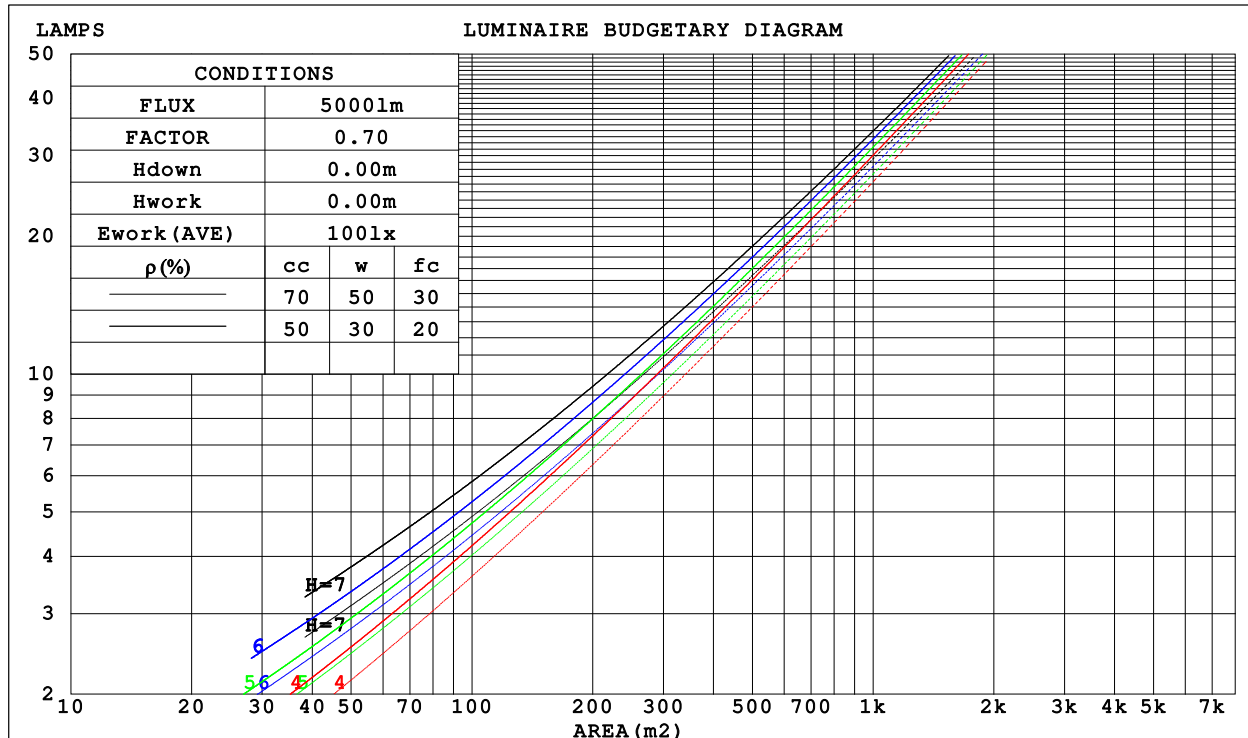
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	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	1.00
1.0	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79
3.0	.87	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.66	.75	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.58	.71	.64	.58	.69	.62	.58	.67	.61	.57	.65	.60	.56	.55
6.0	.65	.58	.52	.65	.57	.52	.63	.56	.51	.61	.55	.51	.60	.55	.51	.49
7.0	.60	.52	.47	.59	.52	.47	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.45	.41	.40
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.38	.35	.33



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	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	.233	.132	.042	.226	.129	.041	.213	.122	.039	.201	.116	.037	.190	.110	.036	
2.0	.228	.125	.038	.222	.122	.038	.211	.117	.036	.201	.112	.035	.191	.108	.034	
3.0	.218	.116	.035	.213	.114	.034	.203	.110	.033	.194	.106	.033	.186	.103	.032	
4.0	.207	.107	.032	.202	.106	.031	.194	.103	.031	.186	.100	.030	.178	.097	.029	
5.0	.195	.100	.029	.191	.098	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.181	.092	.026	.174	.089	.026	.168	.087	.026	.162	.085	.025	
7.0	.175	.086	.024	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.080	.024	
8.0	.166	.081	.023	.163	.080	.023	.157	.079	.022	.152	.077	.022	.147	.076	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.145	.073	.021	.141	.071	.021	
10.0	.149	.071	.020	.147	.071	.020	.142	.070	.020	.138	.069	.020	.134	.068	.019	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.053	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.126	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.052	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.126	.074	.036	.109	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm											
NAME: NS-HB-250W						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						SUR.:280MM			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	2H	28.6	29.9	28.9	30.1	30.3	28.5	29.8	28.7	29.9	30.1
	3H	28.8	30.0	29.1	30.2	30.4	28.6	29.8	28.9	30.0	30.2
	4H	28.7	29.9	29.0	30.1	30.3	28.5	29.7	28.8	29.9	30.1
	6H	28.7	29.7	29.0	30.0	30.2	28.5	29.5	28.8	29.8	30.0
	8H	28.6	29.6	29.0	29.9	30.2	28.4	29.4	28.7	29.7	30.0
	12H	28.6	29.5	28.9	29.8	30.1	28.4	29.3	28.7	29.6	29.9
4H	2H	28.7	29.8	29.0	30.0	30.3	28.5	29.6	28.8	29.9	30.1
	3H	28.9	29.8	29.2	30.1	30.4	28.7	29.6	29.0	29.9	30.2
	4H	28.9	29.7	29.2	30.1	30.4	28.7	29.5	29.0	29.8	30.2
	6H	28.8	29.6	29.2	29.9	30.3	28.6	29.4	29.0	29.7	30.1
	8H	28.8	29.5	29.2	29.9	30.2	28.6	29.3	29.0	29.6	30.0
	12H	28.7	29.4	29.2	29.8	30.2	28.5	29.2	28.9	29.5	29.9
8H	4H	28.8	29.5	29.2	29.9	30.2	28.6	29.3	29.0	29.6	30.0
	6H	28.8	29.3	29.2	29.7	30.2	28.5	29.1	29.0	29.5	29.9
	8H	28.7	29.2	29.2	29.6	30.1	28.5	29.0	28.9	29.4	29.9
	12H	28.7	29.1	29.2	29.6	30.0	28.4	28.9	28.9	29.3	29.8
12H	4H	28.7	29.4	29.2	29.8	30.2	28.5	29.2	29.0	29.6	30.0
	6H	28.7	29.2	29.2	29.6	30.1	28.5	29.0	28.9	29.4	29.9
	8H	28.7	29.1	29.2	29.6	30.0	28.5	28.9	28.9	29.3	29.8
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 1.8					+ 1.2 / - 1.9				
1.5H		+ 0.7 / - 1.1					+ 0.9 / - 1.0				
2.0H		+ 2.6 / - 2.9					+ 2.5 / - 2.8				

CIE Pub.117, 31793 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.0$)
Area: 0.0615 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:

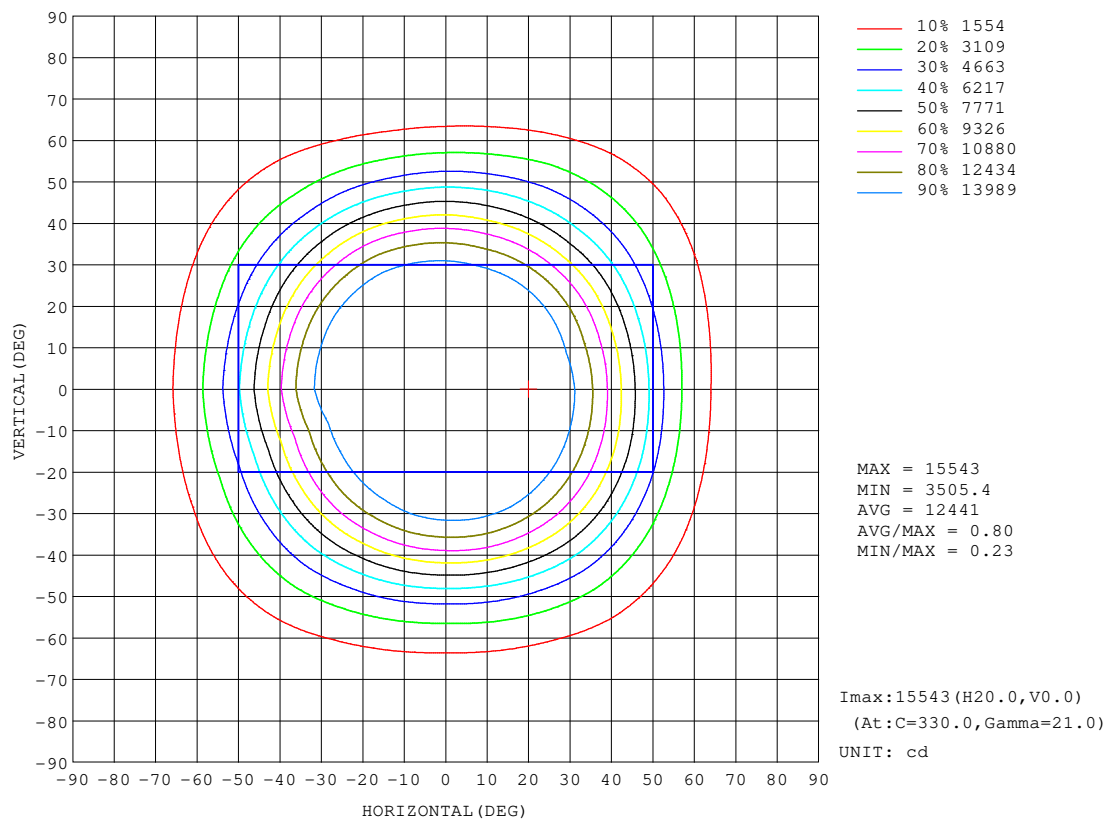
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	59	53	68	59	53	67	58	53	47
0.80	79	69	63	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	90	84	95	89	84	93	87	83	77
2.00	102	96	91	101	95	90	97	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	105	110	107	104	105	103	101	92
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:



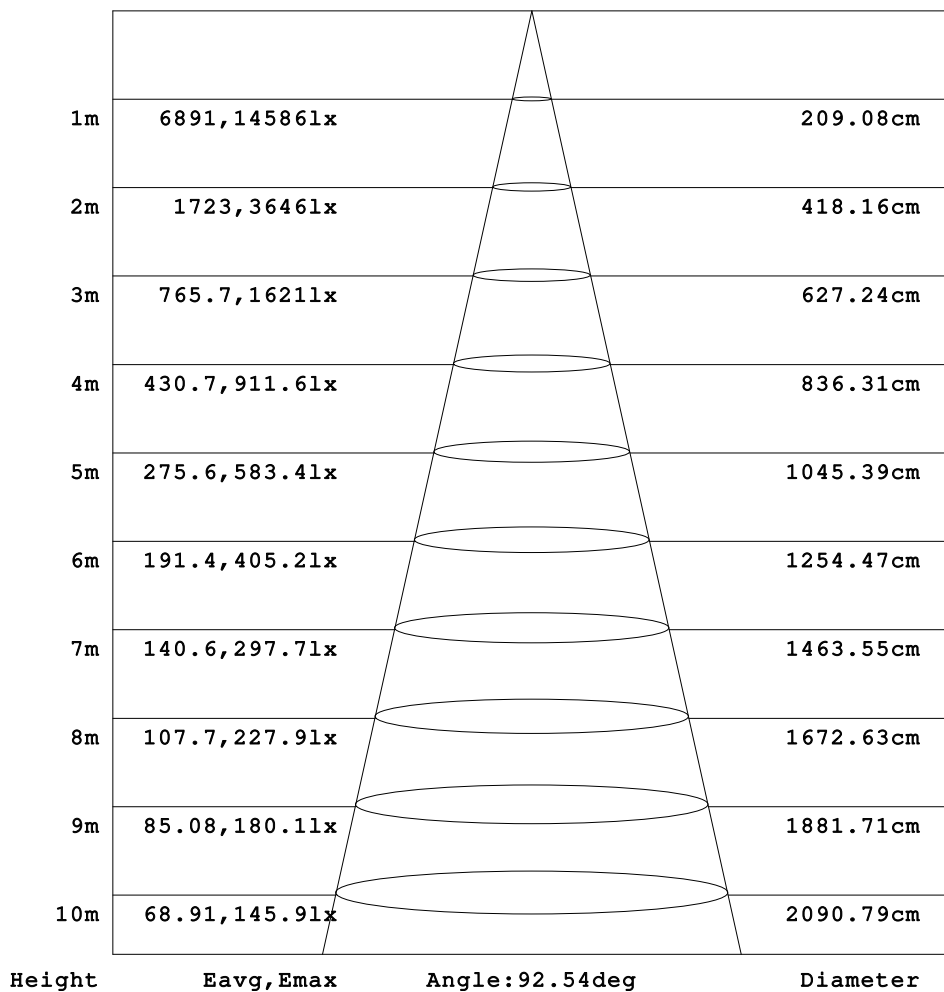
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:

Flux out:24896 lm



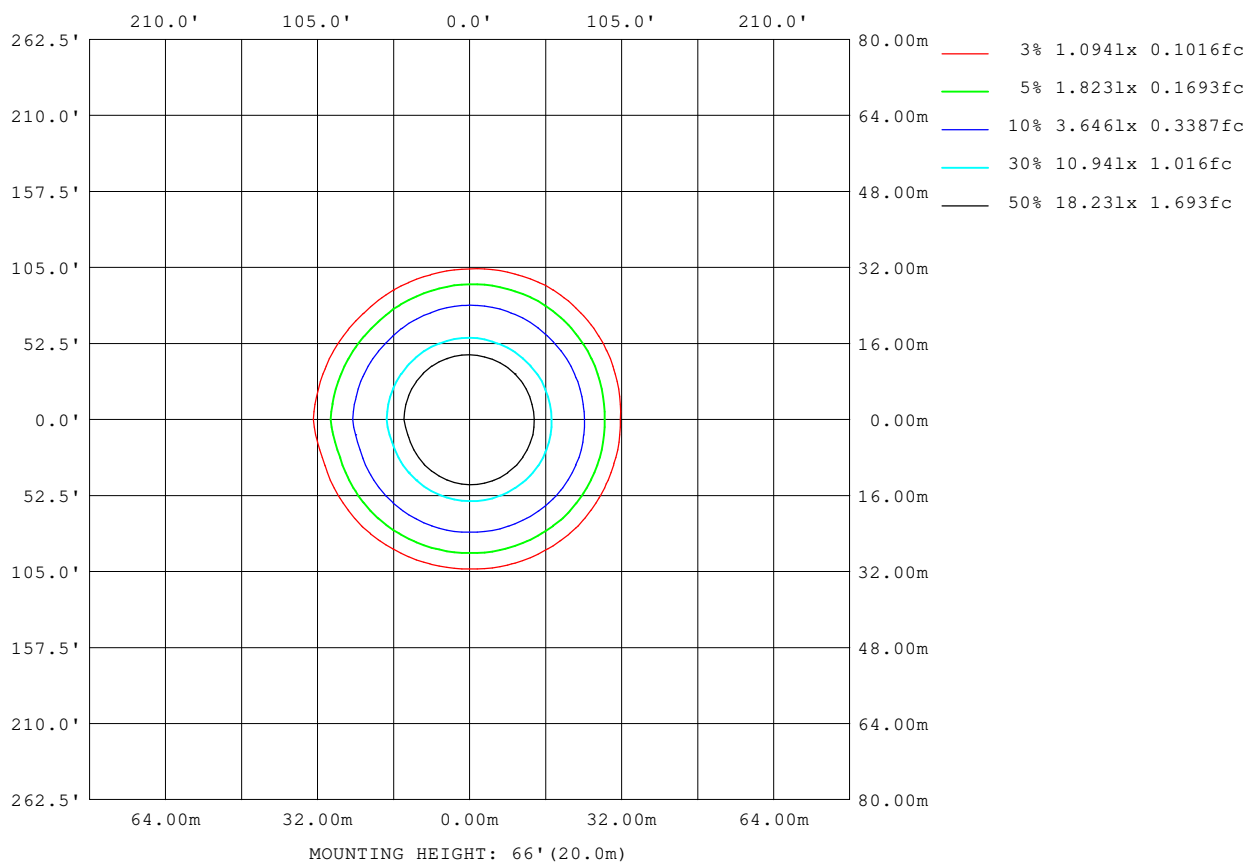
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
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Temperature: 25.3DEG
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γ Range: 0 - 90DEG
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Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:219.92V I:1.1319A P:246.80W PF:0.9914 Freq:0Hz Lamp Flux:31792.6x1 lm		
NAME: NS-HB-250W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:280MM	Shielding Angle:

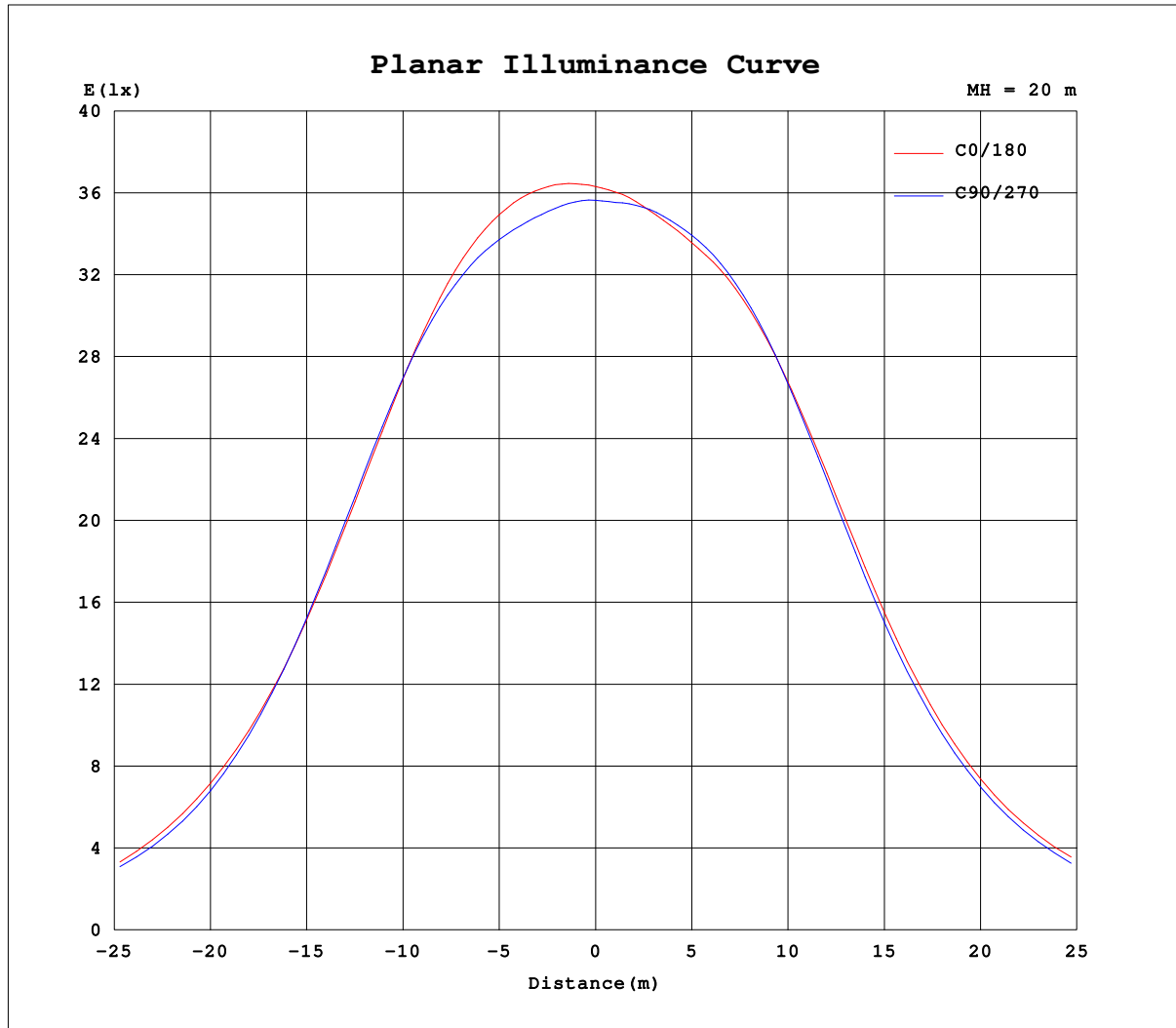
AvgL	cd/m2
L_0~180 (65) av	58585
L_0~180 (75) av	25435
L_0~180 (85) av	533
L_90~270 (65) av	50585
L_90~270 (75) av	20077
L_90~270 (85) av	553
L_45 (65) av	56733
L_45 (75) av	22912
L_45 (85) av	829

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2022-03-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.000m [K=1.0000]
Remarks:

```

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.000m [K=1.0000]
Remarks:

```