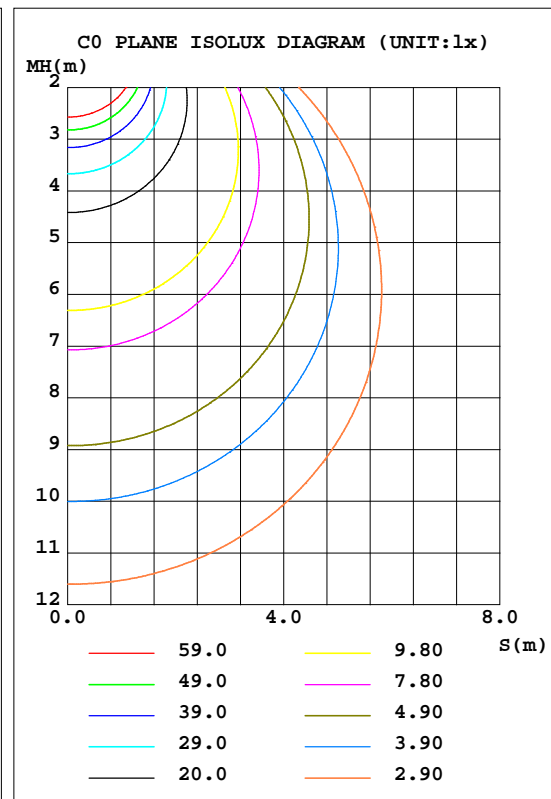
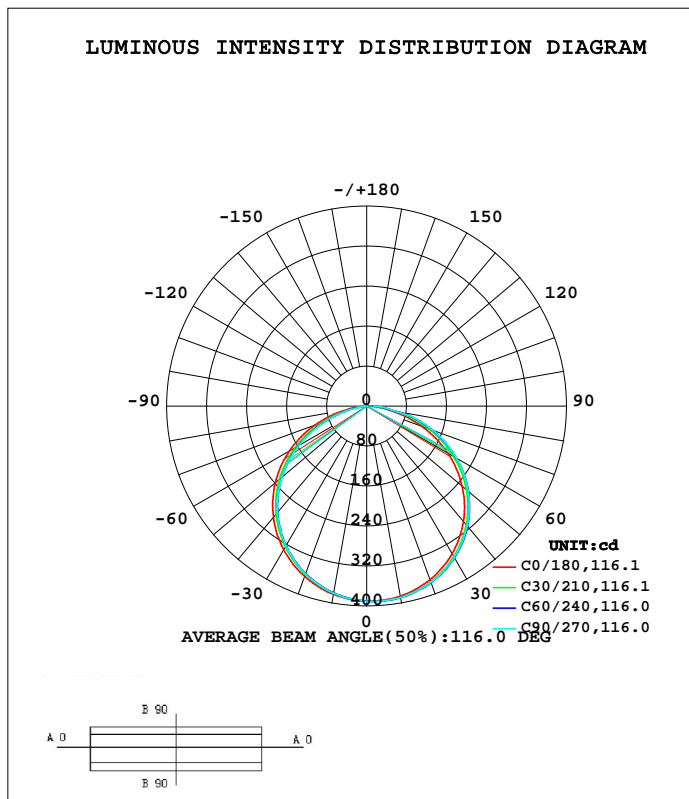


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.87 lm/W			
MODEL		I <sub>max</sub> (cd)	391.4	S/MH(C0/180)	1.27
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	1153.6	η UP, DN(C0-180)	0.0,53.5
NOMINAL FLUX(lm)	1153.56	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,46.5
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:XIAOMI  
 Test Date:2023-04-21

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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	386.0	389.0	389.0	386.6	382.5	379.4	380.0	383.0	0- 10	36.99	36.99	3.21,3.21
20	369.8	375.8	375.4	370.6	363.0	356.8	357.4	363.1	10- 20	106.5	143.4	12.4,12.4
30	341.6	350.5	349.9	342.8	332.1	322.9	323.2	331.4	20- 30	162.8	306.3	26.5,26.5
40	301.3	313.4	312.9	304.1	290.5	278.0	277.7	287.9	30- 40	198.8	505.0	43.8,43.8
50	249.5	264.9	265.1	255.0	238.9	223.1	221.7	233.2	40- 50	209.1	714.1	61.9,61.9
60	187.1	205.6	207.2	196.1	177.9	159.3	156.3	168.3	50- 60	191.3	905.5	78.5,78.5
70	116.5	137.1	140.7	129.3	109.5	89.48	85.35	96.33	60- 70	146.6	1052	91.2,91.2
80	45.41	65.24	57.09	59.26	40.90	26.04	14.09	29.28	70- 80	81.83	1134	98.3,98.3
90	0.9683	9.039	12.92	7.994	1.869	0.8604	0.7149	0.9288	80- 90	19.68	1154	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): 610.02 lm

%lum = 52.9%  
 %lamp = 52.9%

Conical surface Flux(120deg): 905.49 lm

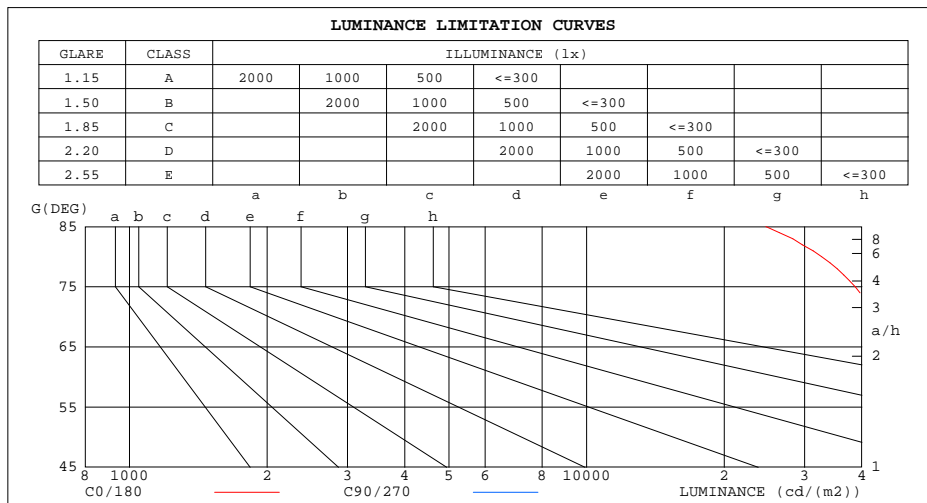
%lum = 78.5%  
 %lamp = 78.5%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	24680	45482
80	32691	41097
75	38709	50866
70	42595	51426
65	45111	51744
60	46777	51807
55	47838	51727
50	48518	51556
45	48940	51321

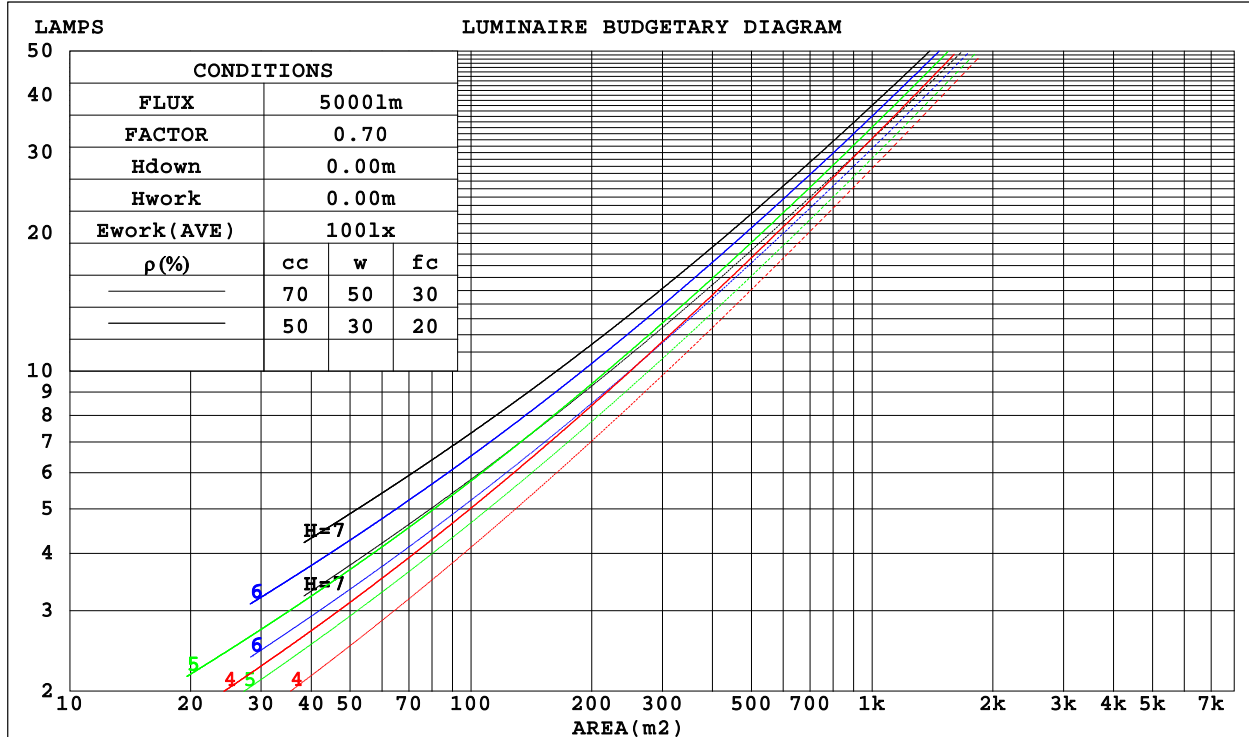
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	

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	.310	.176	.056	.303	.173	.055	.290	.166	.053	.278	.160	.051	.266	.154	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.125	.037	.228	.122	.037	.220	.120	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.191	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm										
NAME: UN-DC24-2835-140-10-9740-W8-3M					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:1000*8mm					
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	26.7	28.3	27.0	28.5	28.7	27.1	28.6	27.4	28.8	29.0
3H	28.3	29.7	28.6	29.9	30.2	28.9	30.3	29.2	30.5	30.8
4H	28.9	30.2	29.2	30.5	30.8	29.7	31.0	30.0	31.3	31.5
6H	29.3	30.6	29.6	30.8	31.1	30.2	31.4	30.5	31.7	32.0
8H	29.4	30.6	29.7	30.9	31.2	30.3	31.5	30.7	31.8	32.1
12H	29.4	30.6	29.8	30.9	31.2	30.4	31.6	30.8	31.9	32.2
4H 2H	27.5	28.8	27.8	29.1	29.3	27.8	29.1	28.1	29.4	29.6
3H	29.2	30.4	29.6	30.7	31.0	29.7	30.9	30.1	31.2	31.5
4H	30.0	31.1	30.4	31.4	31.7	30.7	31.7	31.0	32.1	32.4
6H	30.5	31.5	30.9	31.8	32.2	31.3	32.2	31.7	32.6	33.0
8H	30.7	31.6	31.1	31.9	32.3	31.5	32.4	31.9	32.7	33.1
12H	30.8	31.6	31.2	32.0	32.4	31.7	32.5	32.1	32.9	33.3
8H 4H	30.4	31.3	30.8	31.6	32.0	31.0	31.9	31.4	32.2	32.6
6H	31.1	31.8	31.5	32.2	32.7	31.7	32.5	32.2	32.9	33.3
8H	31.3	32.0	31.8	32.4	32.9	32.0	32.7	32.5	33.1	33.6
12H	31.5	32.1	32.0	32.5	33.0	32.3	32.9	32.8	33.3	33.8
12H 4H	30.4	31.2	30.8	31.6	32.0	31.0	31.8	31.4	32.2	32.6
6H	31.2	31.8	31.6	32.2	32.7	31.8	32.5	32.3	32.9	33.3
8H	31.5	32.0	31.9	32.5	33.0	32.1	32.7	32.6	33.1	33.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 1154 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.5)  
 Area: 0.008 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	

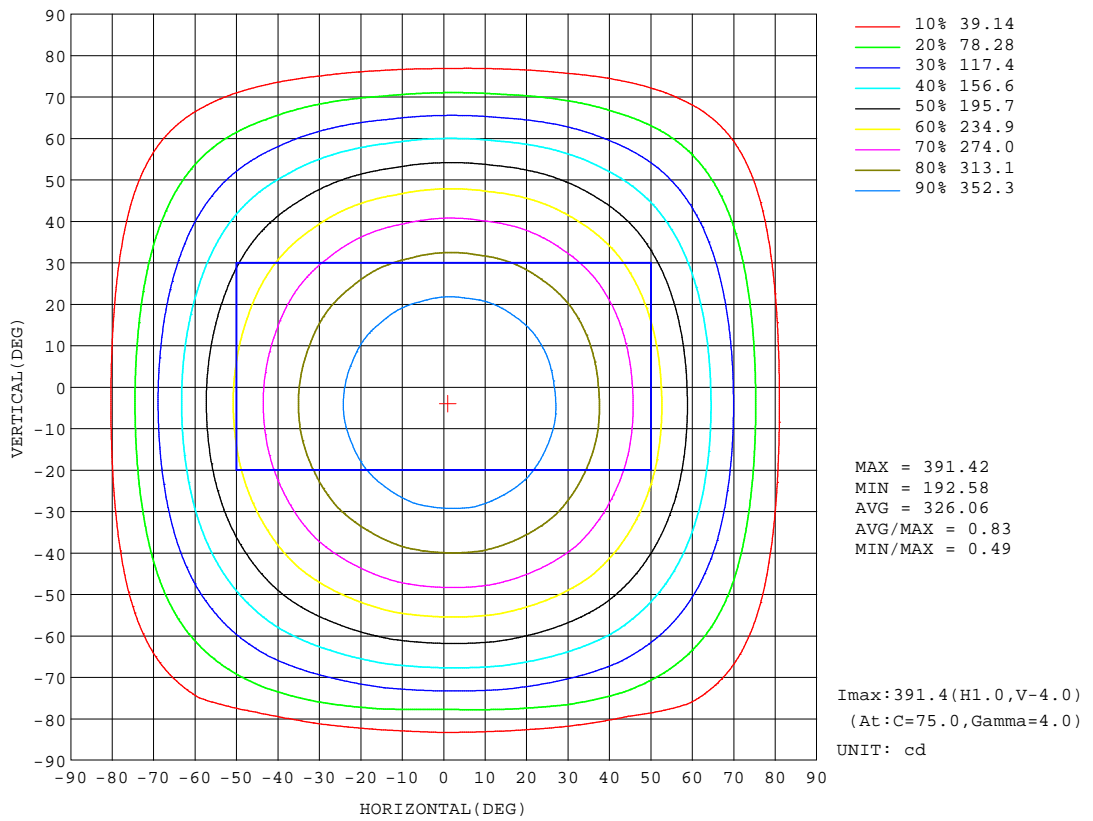
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:XIAOMI  
 Test Date:2023-04-21

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:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

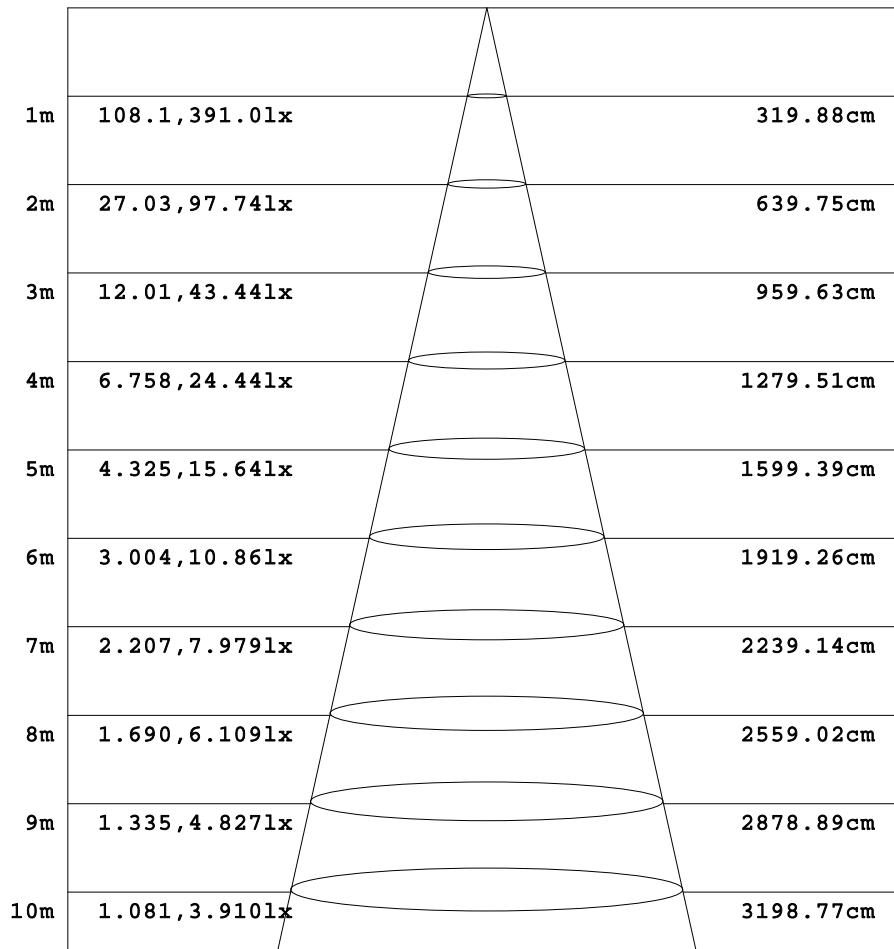
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	

Flux out:870.0 lm



Height Eavg, Emax Angle:115.97deg Diameter

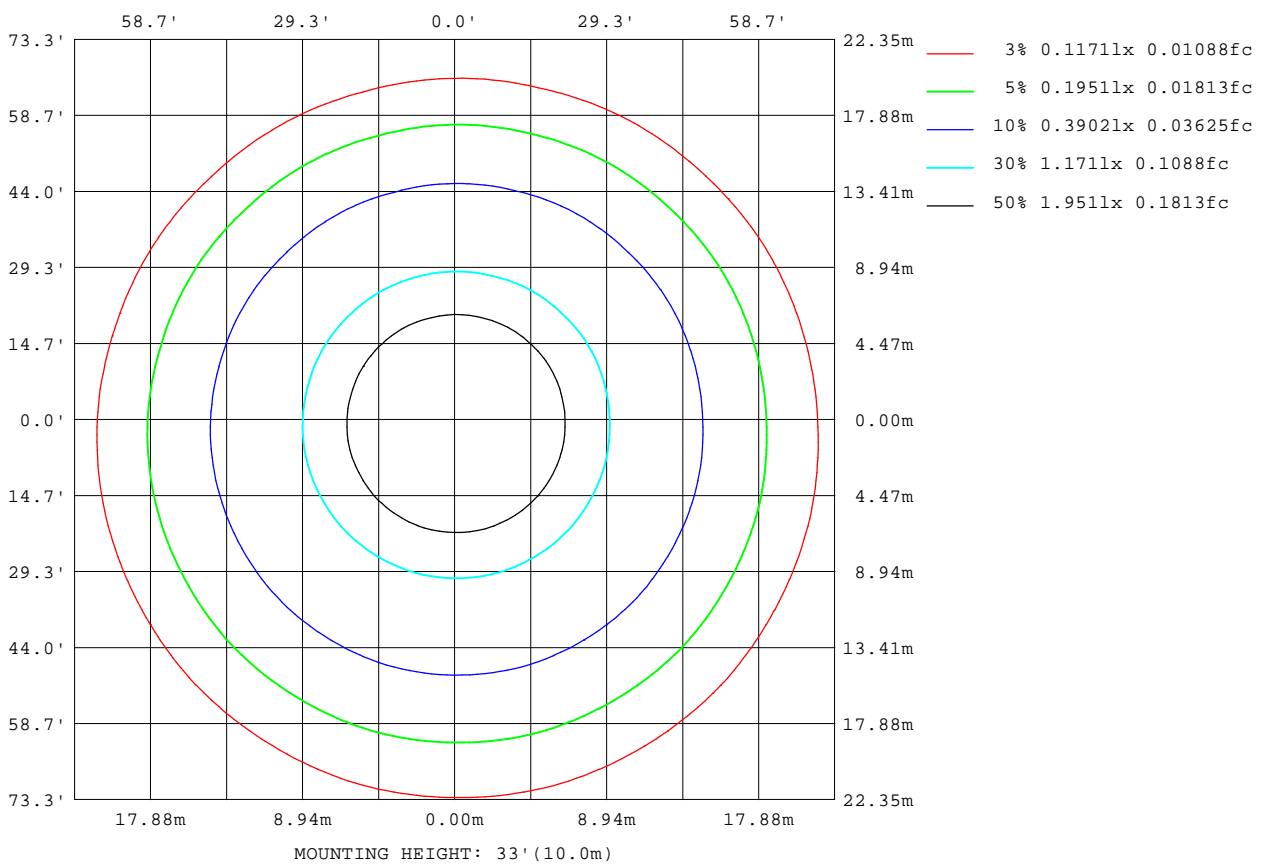
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

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:

ISOLUX DIAGRAM

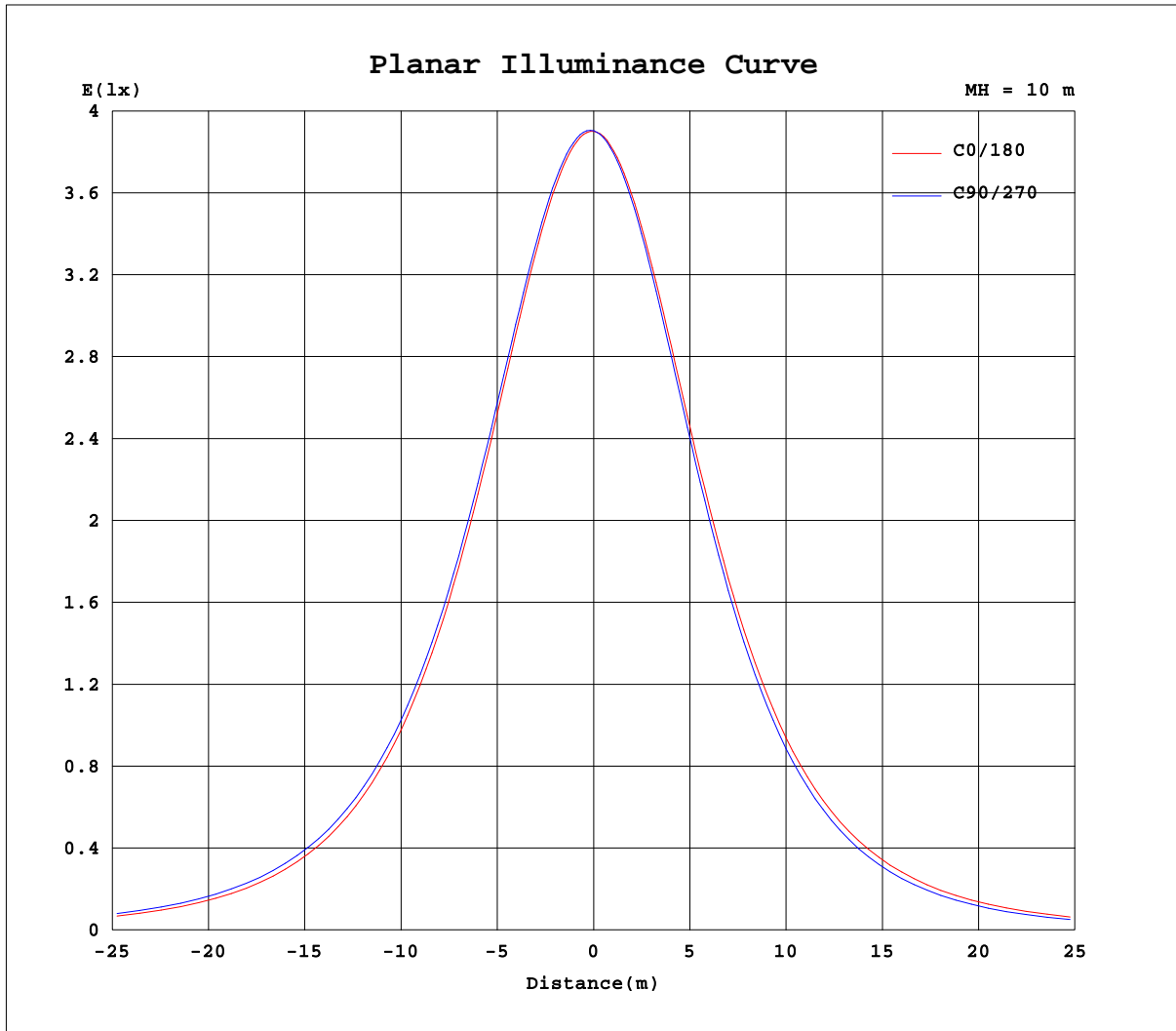
Test:U:23.998V I:0.4375A P:10.500W PF:1.0000 Freq:50.00Hz Lamp Flux:1153.56x1 lm		
NAME: UN-DC24-2835-140-10-9740-W8-3M	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*8mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-21

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: XIAOMI  
Test Date: 2023-04-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity: 65.0%  
Test Distance: 9.000m [K=1.0000]  
Remarks:



