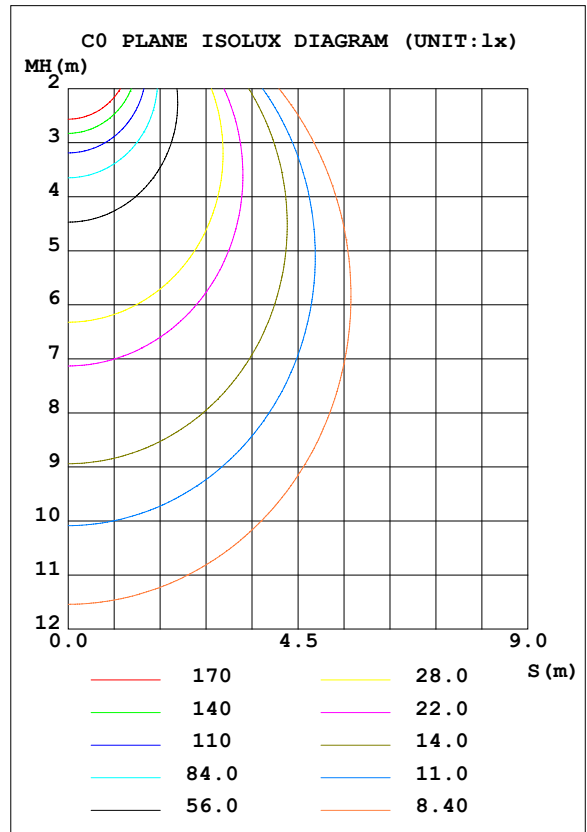
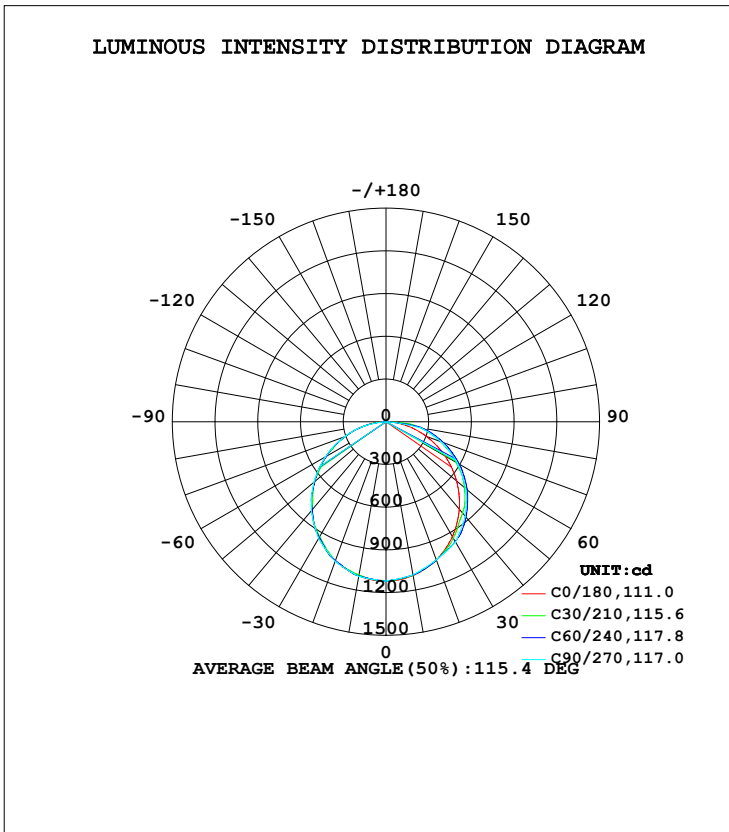


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.42 lm/W			
MODEL	HV3535W	I _{max} (cd)	1119	S/MH (C0/180)	1.25
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3279.9	η UP, DN (C0-180)	0.0, 51.6
NOMINAL FLUX (lm)	3279.92	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng
 Test Date: 2020-06-05

V(B) Range: -80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
 Humidity: 65.0%
 Test Distance: 7.050m [K=1.0000]
 Remarks: 电压: 220V 电流: 0.159025A 功率: 34.0183W
 功率因数: 0.973393 PF

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

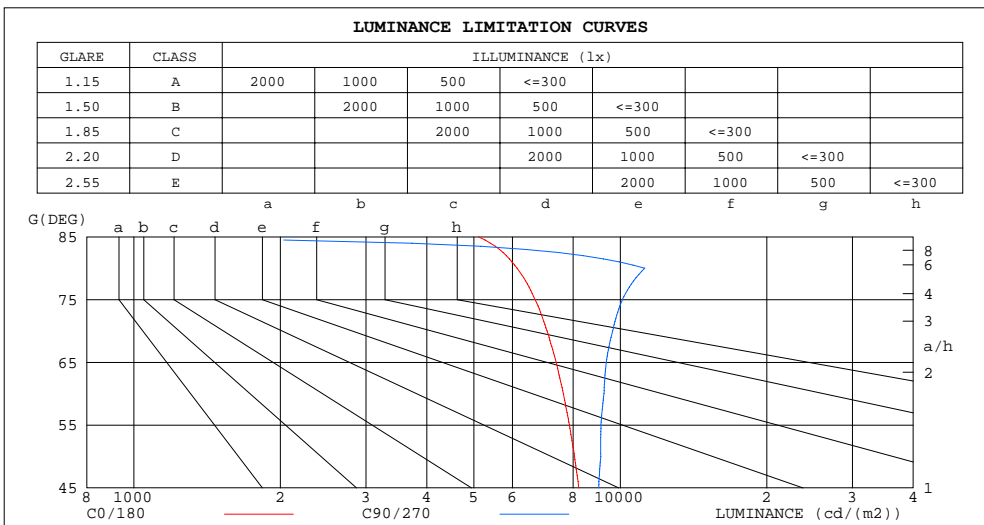
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1096	1092	1092	1087	1100	1096	1102	1098	0- 10	105.4	105.4	3.21,3.21
20	1032	1036	1032	1016	1039	1033	1043	1040	10- 20	301.4	406.8	12.4,12.4
30	932.2	955.0	976.1	922.4	940.2	938.7	945.5	941.9	20- 30	457.0	863.8	26.3,26.3
40	800.7	868.0	865.6	811.3	809.9	812.0	815.1	811.9	30- 40	553.8	1418	43.2,43.2
50	646.9	733.6	732.4	664.9	655.7	660.2	660.3	655.3	40- 50	578.3	1996	60.9,60.9
60	477.4	585.5	578.5	499.7	485.9	486.0	489.3	487.0	50- 60	530.4	2526	77.77
70	302.1	424.5	412.4	326.9	309.4	306.5	310.9	312.1	60- 70	420.2	2947	89.8,89.8
80	133.1	259.3	243.6	159.0	137.8	132.9	136.0	141.3	70- 80	267.1	3214	98.98
90	0	0	0	0	0.7529	0	0	0	80- 90	66.32	3280	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		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

LUMINANCE LIMITATION CURVES

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5113	0
80	6133	11222
75	6678	10098
70	7067	9646
65	7381	9353
60	7638	9256
55	7860	9126
50	8051	9115
45	8213	9028

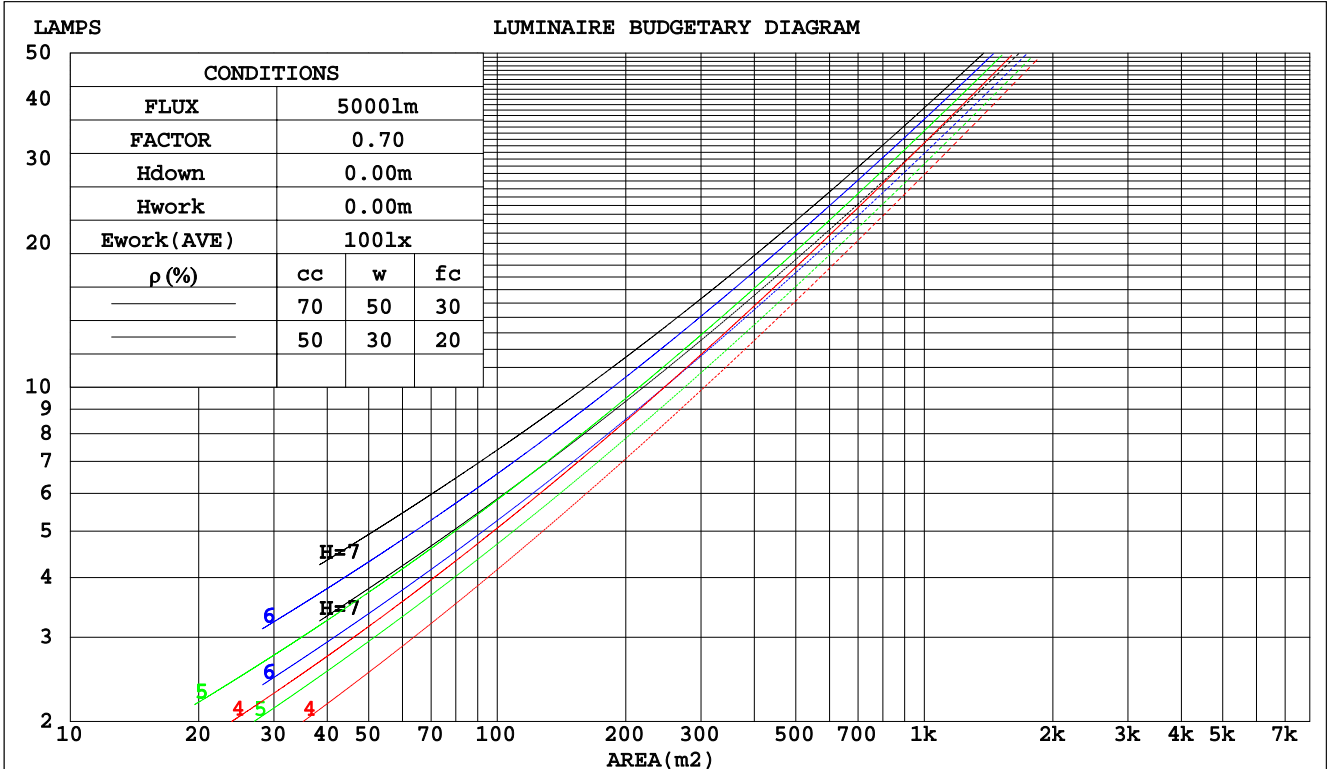
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	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	1.03	.99	.95	1.01	.97	.93	.97	.94	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.81	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.69
3.0	.79	.70	.63	.77	.69	.63	.74	.67	.62	.71	.65	.61	.69	.64	.60	.57
4.0	.69	.60	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.50	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.29	.25	.23



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

WEC AND CCEC

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	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	.318	.181	.057	.311	.178	.056	.298	.171	.055	.286	.165	.053	.275	.159	.051	
2.0	.299	.164	.050	.292	.161	.050	.281	.156	.048	.270	.151	.047	.260	.147	.046	
3.0	.275	.147	.044	.270	.144	.043	.259	.141	.043	.250	.137	.042	.241	.133	.041	
4.0	.253	.132	.039	.248	.130	.038	.239	.127	.038	.231	.124	.037	.223	.121	.037	
5.0	.234	.119	.034	.229	.118	.034	.221	.115	.034	.213	.113	.034	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.198	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.179	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.168	.083	.023	.163	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.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	.130	.070	.028	.112	.060	.025	.077	.042	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.106	.056	.022	.074	.039	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.102	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

UGR(Unified Glare Rating) Table

NAME: HV3535W		TYPE:3000K					WEIGHT:				
SPEC.:		DIM.: ϕ 450*75MM					SERIAL No.:				
MFR.:		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					Viewed endwise					
x = 2H y = 2H	16.4	17.9	16.6	18.1	18.3	17.0	18.5	17.2	18.7	18.9	
3H	18.1	19.5	18.4	19.8	20.0	18.9	20.3	19.2	20.6	20.8	
4H	18.9	20.2	19.2	20.5	20.7	19.8	21.2	20.1	21.4	21.7	
6H	19.5	20.8	19.8	21.0	21.3	20.7	22.0	21.0	22.2	22.5	
8H	19.7	21.0	20.1	21.3	21.6	20.9	22.1	21.2	22.4	22.7	
12H	19.9	21.1	20.3	21.4	21.7	20.9	22.1	21.2	22.4	22.7	
4H 2H	17.3	18.6	17.6	18.9	19.1	17.7	19.1	18.0	19.3	19.6	
3H	19.3	20.4	19.6	20.7	21.1	19.9	21.1	20.2	21.4	21.7	
4H	20.2	21.3	20.6	21.6	22.0	21.0	22.0	21.3	22.4	22.7	
6H	21.1	22.0	21.5	22.4	22.7	22.0	23.0	22.4	23.3	23.7	
8H	21.4	22.3	21.8	22.7	23.1	22.2	23.2	22.7	23.5	23.9	
12H	21.7	22.5	22.1	22.9	23.3	22.3	23.1	22.7	23.5	23.9	
8H 4H	20.8	21.7	21.2	22.0	22.4	21.4	22.3	21.8	22.7	23.1	
6H	21.9	22.7	22.3	23.1	23.5	22.7	23.4	23.1	23.8	24.3	
8H	22.4	23.1	22.9	23.5	24.0	23.0	23.7	23.5	24.1	24.6	
12H	22.9	23.5	23.4	23.9	24.4	23.1	23.7	23.6	24.1	24.6	
12H 4H	20.9	21.7	21.3	22.1	22.5	21.5	22.3	21.9	22.7	23.1	
6H	22.1	22.8	22.6	23.2	23.7	22.8	23.5	23.3	23.9	24.4	
8H	22.8	23.3	23.2	23.8	24.3	23.2	23.8	23.7	24.3	24.7	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.4 / - 0.5					+ 0.1 / - 0.3					
2.0H	+ 0.4 / - 0.7					+ 0.2 / - 0.4					

CIE Pub.117, 3280 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.1)
 Area: 0.125 m2

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng
 Test Date:2020-06-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:7.050m [K=1.0000]
 Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
 功率因数:0.973393 PF

UTILIZATION FACTORS TABLE

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

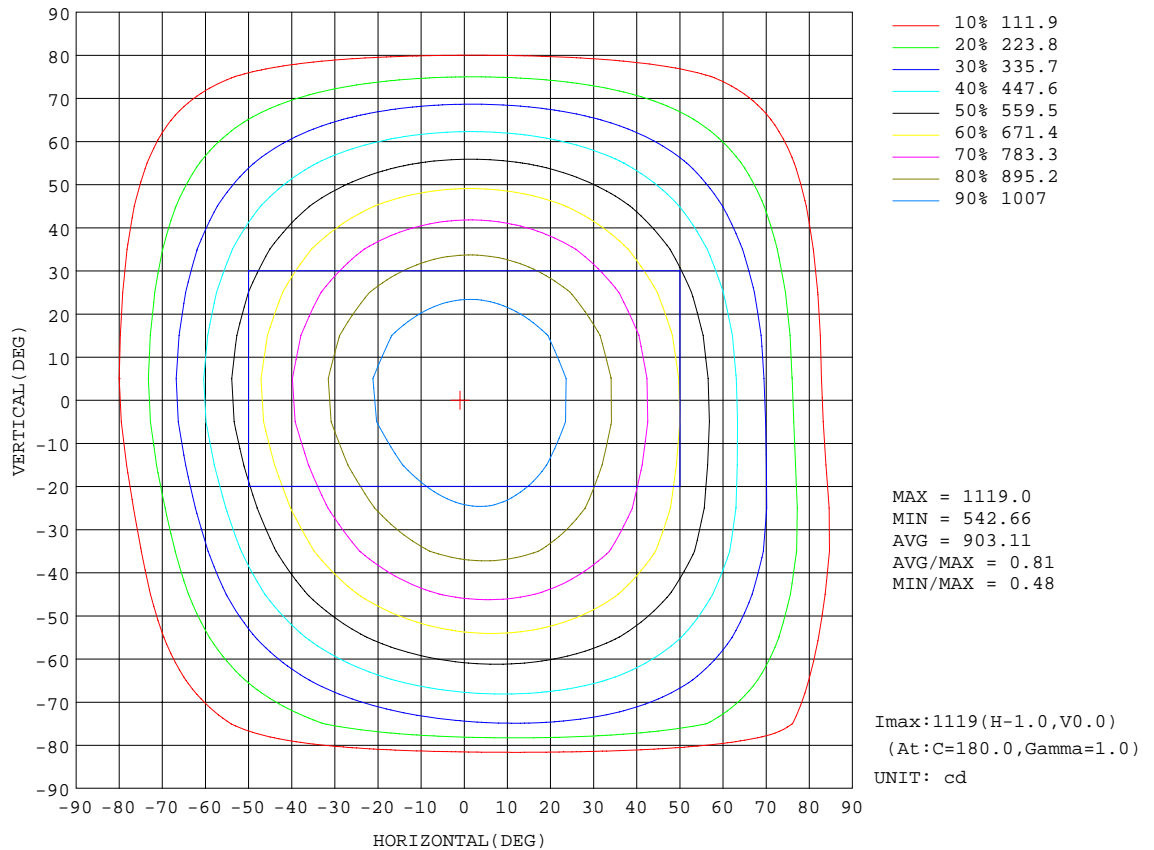
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	69	83	74	68	61
2.00	94	85	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

ISOCANDELA DIAGRAM

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



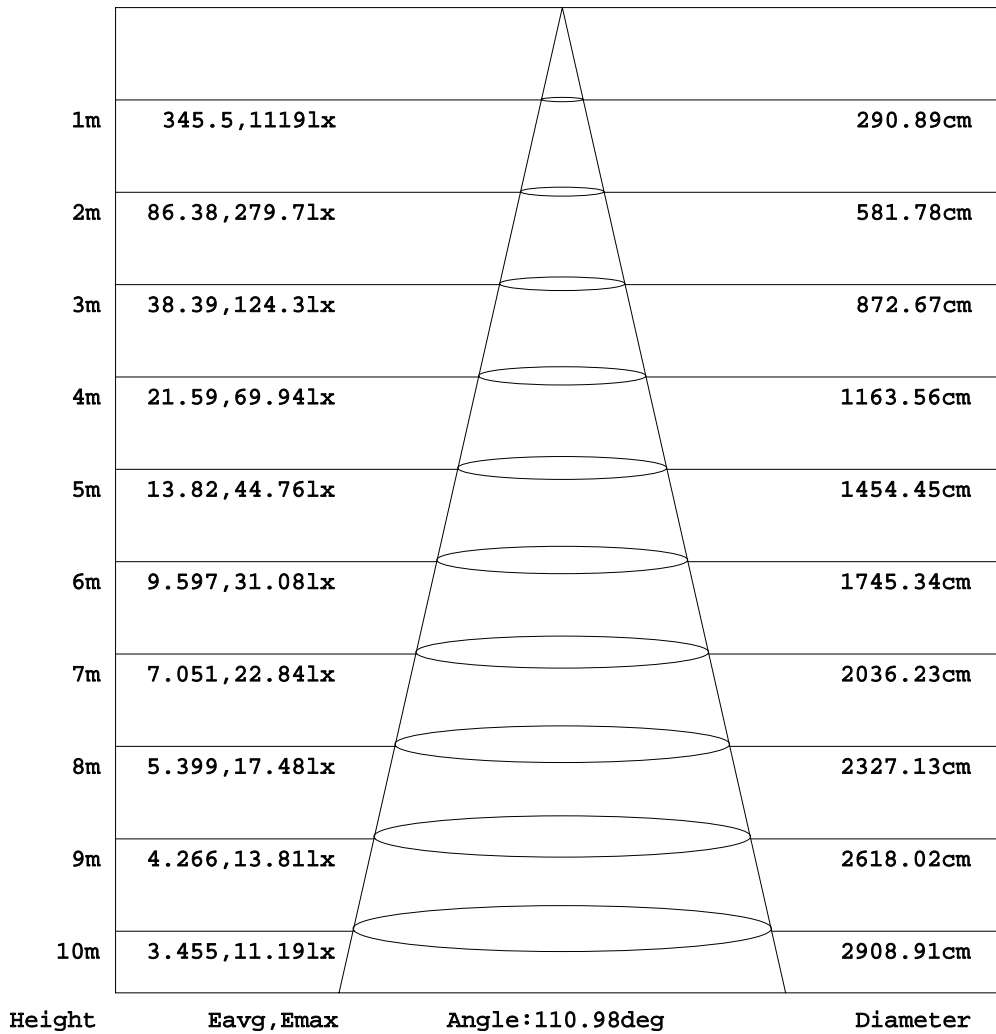
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

AAI Figure

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:2298 lm



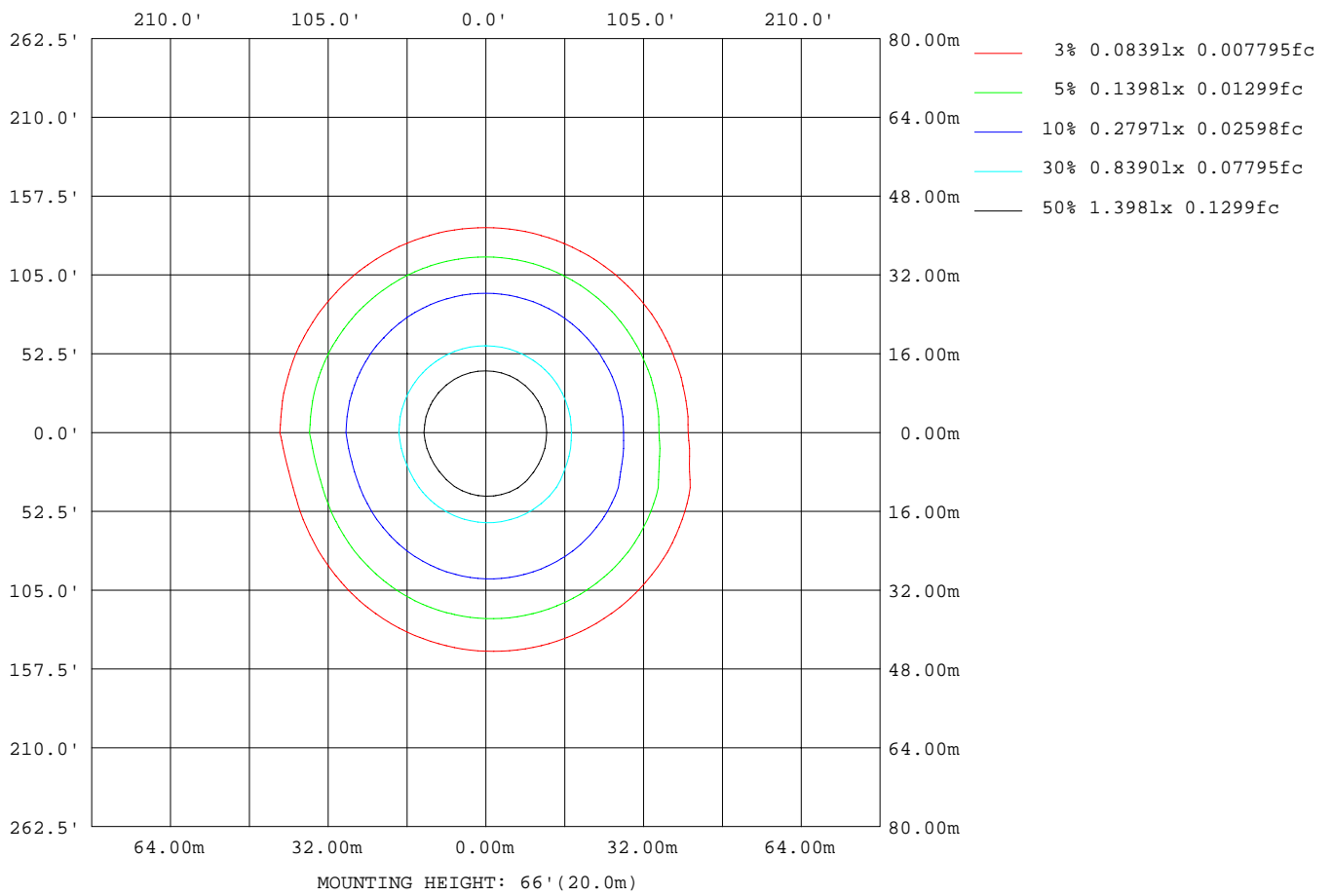
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng
 Test Date:2020-06-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:7.050m [K=1.0000]
 Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
 功率因数:0.973393 PF

ISOLUX DIAGRAM

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng
 Test Date:2020-06-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:7.050m [K=1.0000]
 Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
 功率因数:0.973393 PF

LED Avg.L Report

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

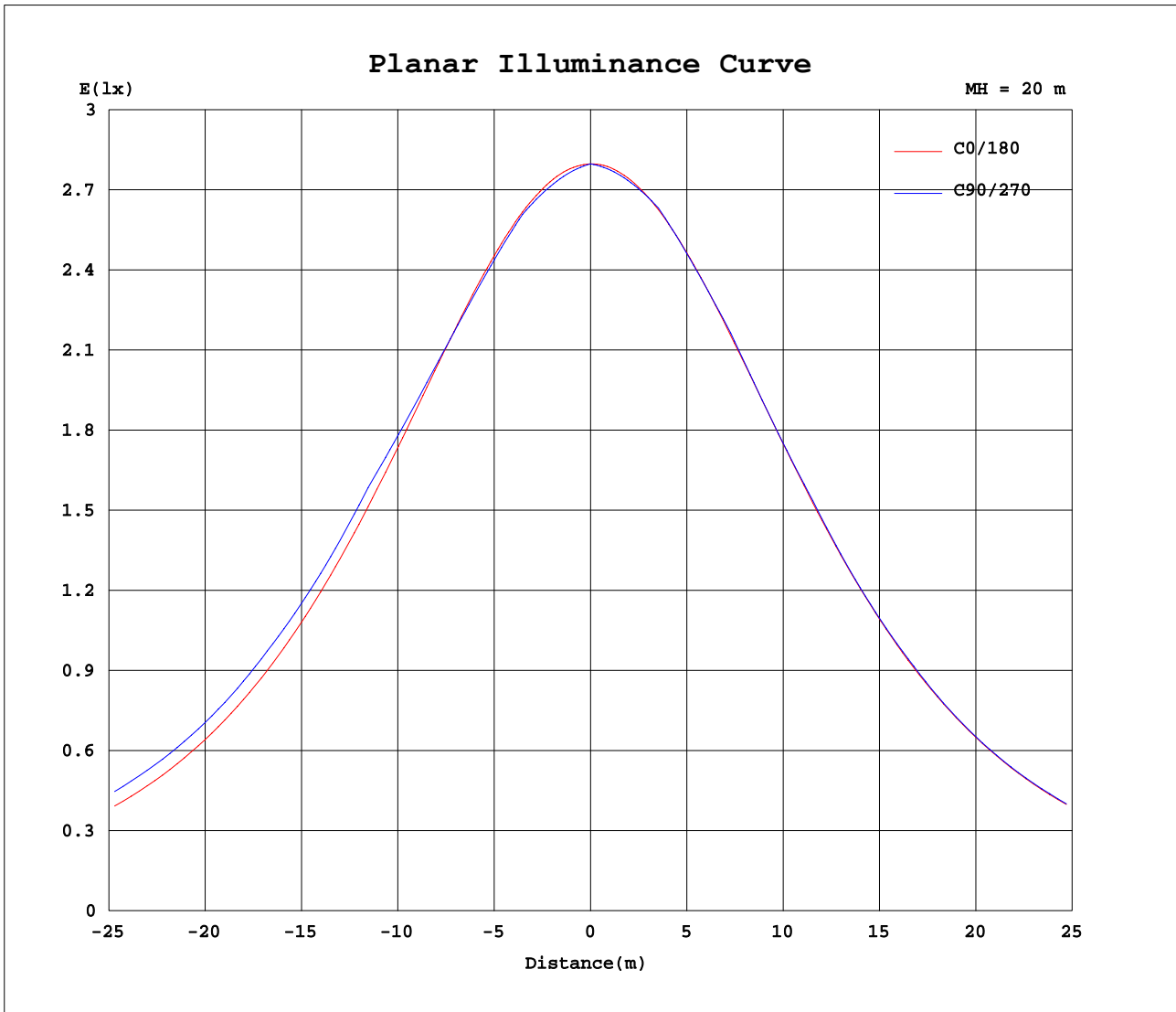
AvgL	cd/m2
L_0~180 (65) av	7458
L_0~180 (75) av	6778
L_0~180 (85) av	5258
L_90~270 (65) av	8462
L_90~270 (75) av	8501
L_90~270 (85) av	0
L_45 (65) av	8103
L_45 (75) av	7944
L_45 (85) av	4724

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng
 Test Date:2020-06-05

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:7.050m [K=1.0000]
 Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
 功率因数:0.973393 PF

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HV3535W	TYPE:3000K	WEIGHT:
SPEC.:	DIM.: ϕ 450*75MM	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119	1119
5	1113	1112	1111	1110	1110	1109	1109	1108	1108	1107	1107	1107	1107	1106	1106	1106	1106	1106	1106
10	1096	1095	1094	1094	1093	1093	1093	1093	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092	1092
15	1069	1068	1068	1069	1070	1068	1068	1068	1068	1068	1067	1067	1066	1066	1065	1064	1064	1063	1062
20	1032	1033	1034	1036	1034	1034	1034	1035	1035	1036	1036	1034	1034	1034	1034	1034	1033	1032	
25	986	988	992	991	990	991	993	996	995	995	995	998	1002	1004	1006	1007	1007	1005	1003
30	932	937	941	938	939	944	946	944	946	955	963	969	972	975	977	978	980	978	976
35	869	878	880	878	885	888	886	896	909	917	924	930	931	931	930	929	927	923	920
40	801	813	811	816	823	821	837	852	860	868	872	875	874	874	873	872	871	869	866
45	726	743	737	752	749	766	784	794	802	808	808	808	810	811	810	809	806	802	798
50	647	664	665	674	685	708	719	731	732	734	739	743	744	744	743	742	740	737	732
55	564	581	592	592	625	637	651	650	658	667	667	669	670	671	670	668	664	660	654
60	477	494	510	533	549	565	566	581	582	586	591	594	594	593	592	590	587	583	578
65	390	408	422	456	476	481	492	495	505	508	509	510	512	512	511	509	505	500	494
70	302	333	364	386	393	398	412	415	418	424	429	430	430	429	428	426	422	418	412
75	216	249	288	303	310	319	325	336	338	340	343	345	346	346	344	342	338	333	327
80	133	189	214	224	230	238	242	250	256	259	261	262	262	261	260	257	253	249	244
85	55.7	116	119	134	152	157	160	131	107	85.6	66.8	50.6	36.8	25.2	15.9	8.82	3.85	0.94	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng
Test Date:2020-06-05

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:7.050m [K=1.0000]
Remarks: 电压:220V 电流:0.159025A 功率:34.0183W
功率因数:0.973393 PF

