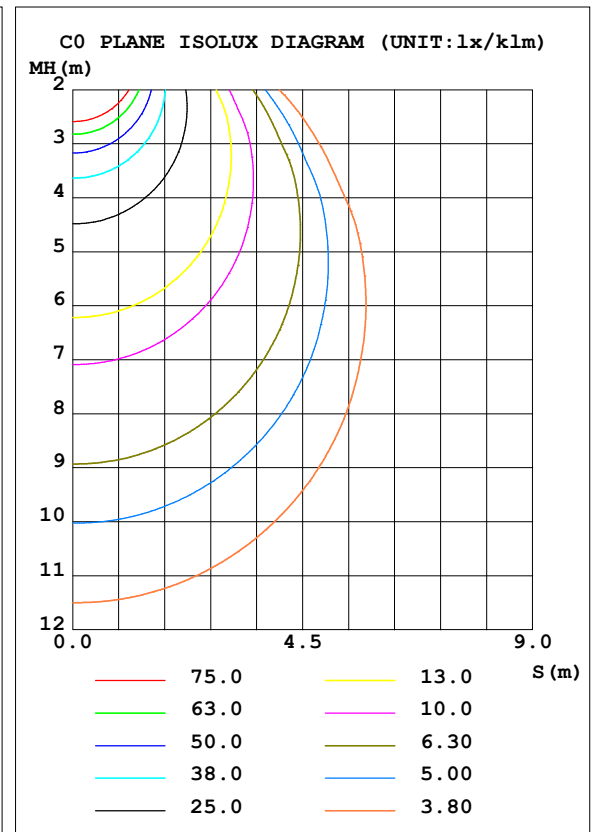
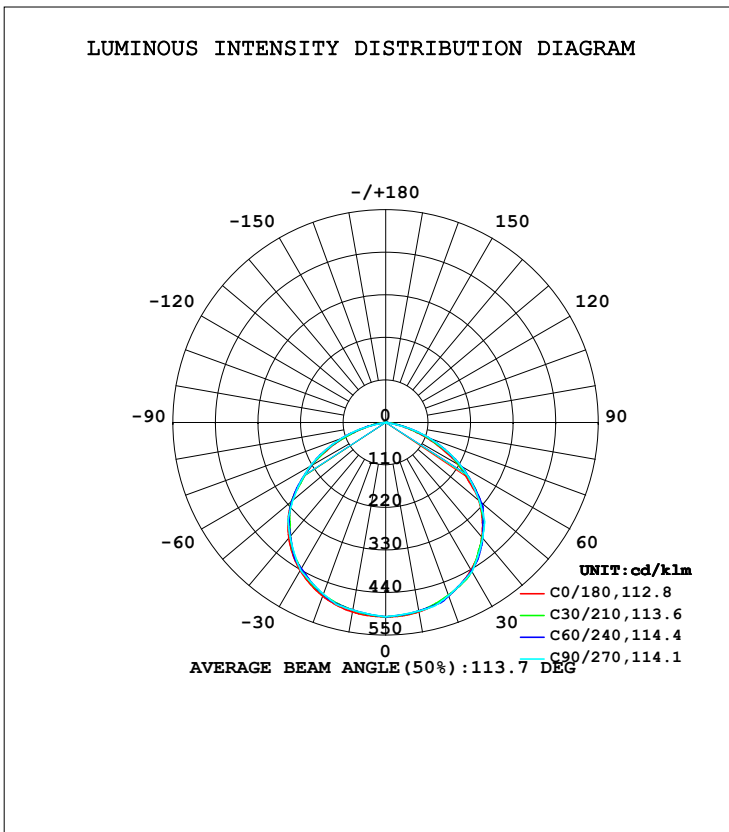


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.96 lm/W			
MODEL	ASD-UHB2-300D50-PRM	I _{max} (cd/klm)	502.5	S/MH (C0/180)	1.31
NOMINAL POWER (W)	300	LOR (%)	141.3	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220	TOTAL FLUX (lm/klm)	1413.0	η UP, DN (C0-180)	0.0, 70.7
NOMINAL FLUX (lm)	30138	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 70.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	141.3	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: C
 Test Date: 19 Nov 2019

V(B) Range: -75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 7.890m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

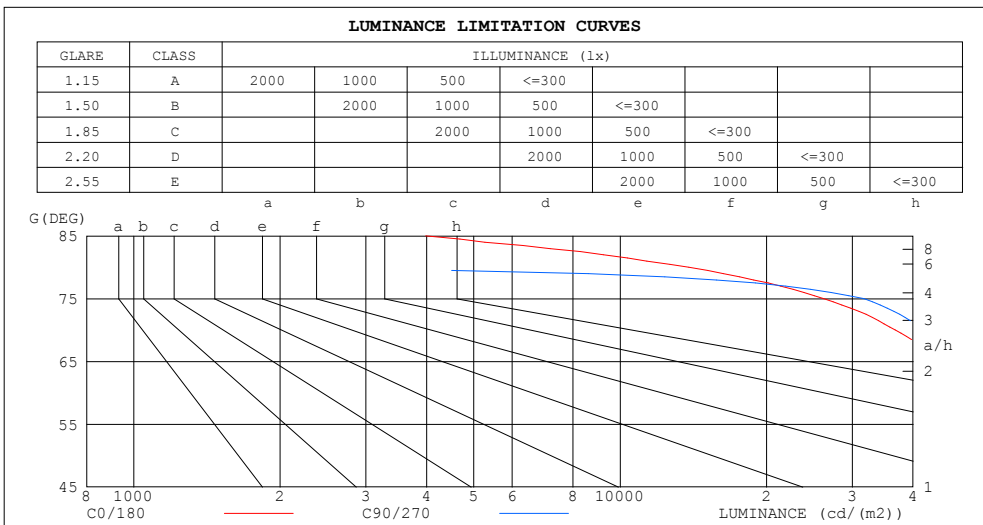
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	497.1	494.8	495.0	494.1	497.5	492.5	492.5	493.2	0- 10	47.49	47.49	3.36,4.75
20	476.7	479.4	476.2	477.3	477.6	474.3	471.9	476.8	10- 20	137.5	185.0	13.1,18.5
30	441.0	440.7	446.1	439.6	442.3	436.2	440.6	437.8	20- 30	211.7	396.8	28.1,39.7
40	387.0	391.8	390.1	391.8	389.9	388.8	385.2	389.1	30- 40	260.3	657.0	46.5,65.7
50	314.9	316.2	316.5	318.9	318.6	317.0	313.2	315.9	40- 50	273.6	930.6	65.9,93.1
60	214.4	221.5	225.2	223.5	219.8	224.1	224.8	224.9	50- 60	241.5	1172	82.9,117
70	105.9	117.0	121.3	114.8	110.6	117.4	122.4	121.7	60- 70	167.4	1340	94.8,134
80	20.27	23.35	0	21.07	23.15	22.97	0	25.73	70- 80	69.93	1409	99.7,141
90	0.3740	0	0	0	0.3820	0	0	0	80- 90	3.601	1413	100,141
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/klm									UNIT:lm/klm		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:



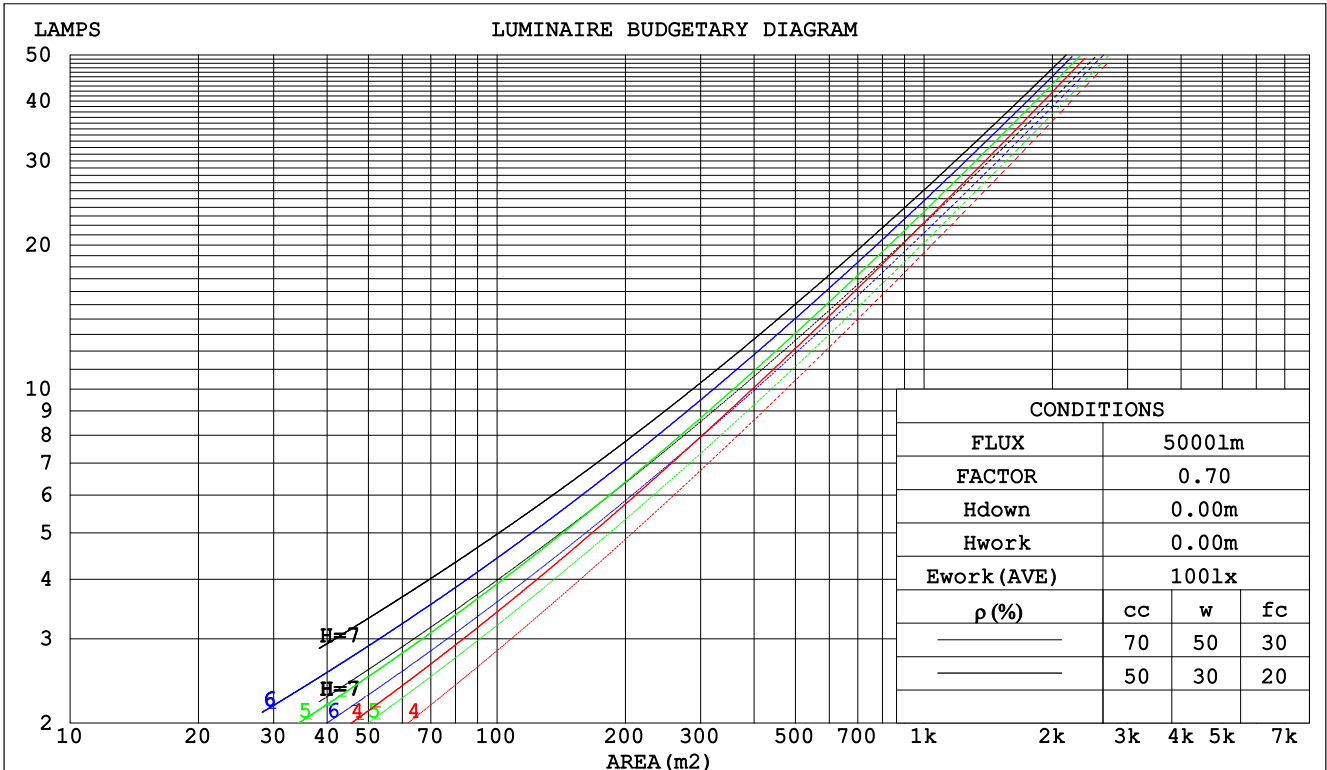
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	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	0															
pfc	0															
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.68	1.68	1.68	1.64	1.64	1.64	1.57	1.57	1.57	1.50	1.50	1.50	1.44	1.44	1.44	1.41
1.0	1.49	1.43	1.38	1.46	1.41	1.36	1.40	1.36	1.32	1.34	1.31	1.28	1.29	1.26	1.24	1.21
2.0	1.30	1.21	1.13	1.28	1.19	1.12	1.23	1.16	1.10	1.18	1.12	1.07	1.14	1.09	1.05	1.02
3.0	1.15	1.04	.95	1.12	1.02	.94	1.08	.99	.92	1.04	.97	.91	1.01	.94	.89	.86
4.0	1.02	.90	.80	.90	.88	.80	.96	.86	.79	.93	.84	.78	.90	.83	.77	.74
5.0	.91	.78	.69	.89	.77	.69	.86	.76	.68	.83	.74	.67	.81	.73	.67	.64
6.0	.82	.69	.60	.80	.69	.60	.78	.67	.59	.75	.66	.59	.73	.65	.58	.56
7.0	.74	.62	.53	.73	.61	.53	.71	.60	.53	.69	.59	.52	.67	.58	.52	.49
8.0	.67	.55	.47	.66	.55	.47	.65	.54	.47	.63	.53	.47	.61	.53	.46	.44
9.0	.62	.50	.42	.61	.50	.42	.59	.49	.42	.58	.49	.42	.56	.48	.42	.39
10.0	.57	.46	.38	.56	.46	.38	.55	.45	.38	.54	.44	.38	.52	.44	.38	.35



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	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	.399	.227	.072	.389	.222	.071	.371	.213	.068	.354	.204	.065	.338	.196	.063	
2.0	.388	.213	.065	.379	.209	.064	.363	.202	.063	.348	.195	.061	.334	.189	.060	
3.0	.365	.194	.058	.358	.192	.058	.343	.186	.057	.330	.181	.055	.317	.176	.054	
4.0	.341	.177	.052	.334	.175	.052	.321	.170	.051	.309	.166	.050	.298	.162	.049	
5.0	.317	.162	.047	.311	.160	.047	.300	.156	.046	.289	.153	.045	.279	.149	.045	
6.0	.296	.148	.042	.291	.147	.042	.280	.144	.042	.271	.141	.041	.262	.138	.041	
7.0	.276	.137	.039	.272	.135	.039	.263	.133	.038	.254	.130	.038	.246	.128	.038	
8.0	.259	.127	.036	.255	.125	.035	.247	.123	.035	.239	.121	.035	.232	.119	.035	
9.0	.243	.118	.033	.239	.117	.033	.232	.115	.033	.225	.113	.032	.219	.111	.032	
10.0	.229	.110	.030	.226	.109	.030	.219	.107	.030	.213	.106	.030	.207	.104	.030	

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	.269	.269	.269	.230	.230	.230	.157	.157	.157	.090	.090	.090	.029	.029	.029	
1.0	.252	.221	.193	.216	.190	.166	.148	.130	.115	.085	.075	.067	.027	.024	.022	
2.0	.240	.187	.141	.206	.161	.122	.141	.111	.085	.081	.065	.050	.026	.021	.016	
3.0	.229	.161	.107	.197	.139	.093	.135	.097	.065	.078	.056	.038	.025	.018	.013	
4.0	.219	.142	.084	.188	.123	.073	.129	.086	.051	.075	.050	.030	.024	.016	.010	
5.0	.209	.128	.068	.179	.110	.059	.123	.077	.042	.072	.045	.025	.023	.015	.008	
6.0	.199	.116	.056	.171	.100	.049	.118	.070	.035	.068	.041	.021	.022	.014	.007	
7.0	.190	.106	.048	.163	.092	.041	.113	.064	.029	.065	.038	.017	.021	.012	.006	
8.0	.181	.098	.041	.156	.085	.036	.108	.060	.025	.063	.035	.015	.020	.012	.005	
9.0	.172	.091	.036	.149	.079	.031	.103	.055	.022	.060	.033	.013	.019	.011	.004	
10.0	.165	.085	.032	.142	.074	.028	.098	.052	.020	.057	.031	.012	.019	.010	.004	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm										
NAME: ASD-UHB2-300D50-PRM					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD LIGHTING CORP					SUR.:90*90*3.14			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	15.0	16.5	15.3	16.7	16.9	15.2	16.7	15.5	16.9	17.1
3H	16.1	17.5	16.4	17.7	18.0	16.4	17.8	16.7	18.0	18.3
4H	16.4	17.7	16.7	17.9	18.2	16.8	18.1	17.1	18.3	18.6
6H	16.4	17.7	16.8	17.9	18.2	16.8	18.0	17.1	18.2	18.5
8H	16.4	17.6	16.7	17.9	18.2	16.7	17.9	17.0	18.2	18.4
12H	16.4	17.5	16.7	17.8	18.1	16.6	17.8	17.0	18.1	18.4
4H 2H	15.6	16.9	15.9	17.1	17.4	15.7	17.0	16.0	17.3	17.5
3H	16.8	17.9	17.1	18.2	18.5	17.1	18.2	17.4	18.5	18.8
4H	17.1	18.2	17.5	18.5	18.8	17.5	18.5	17.9	18.8	19.2
6H	17.3	18.2	17.7	18.5	18.9	17.5	18.4	17.9	18.8	19.1
8H	17.2	18.1	17.6	18.4	18.8	17.5	18.3	17.9	18.7	19.1
12H	17.2	18.0	17.6	18.4	18.8	17.4	18.2	17.9	18.6	19.0
8H 4H	17.3	18.1	17.7	18.5	18.9	17.6	18.4	18.0	18.8	19.2
6H	17.4	18.1	17.9	18.5	19.0	17.6	18.3	18.1	18.7	19.2
8H	17.4	18.1	17.9	18.5	18.9	17.6	18.2	18.1	18.6	19.1
12H	17.4	17.9	17.9	18.4	18.9	17.6	18.1	18.0	18.5	19.0
12H 4H	17.2	18.0	17.7	18.4	18.8	17.6	18.3	18.0	18.7	19.1
6H	17.4	18.0	17.9	18.4	18.9	17.6	18.2	18.1	18.7	19.1
8H	17.4	17.9	17.9	18.4	18.9	17.6	18.1	18.1	18.6	19.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
1.5H	+ 0.4 / - 0.6					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117, 30138 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.8)
 Area: 0.254 m2

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:7.890m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:

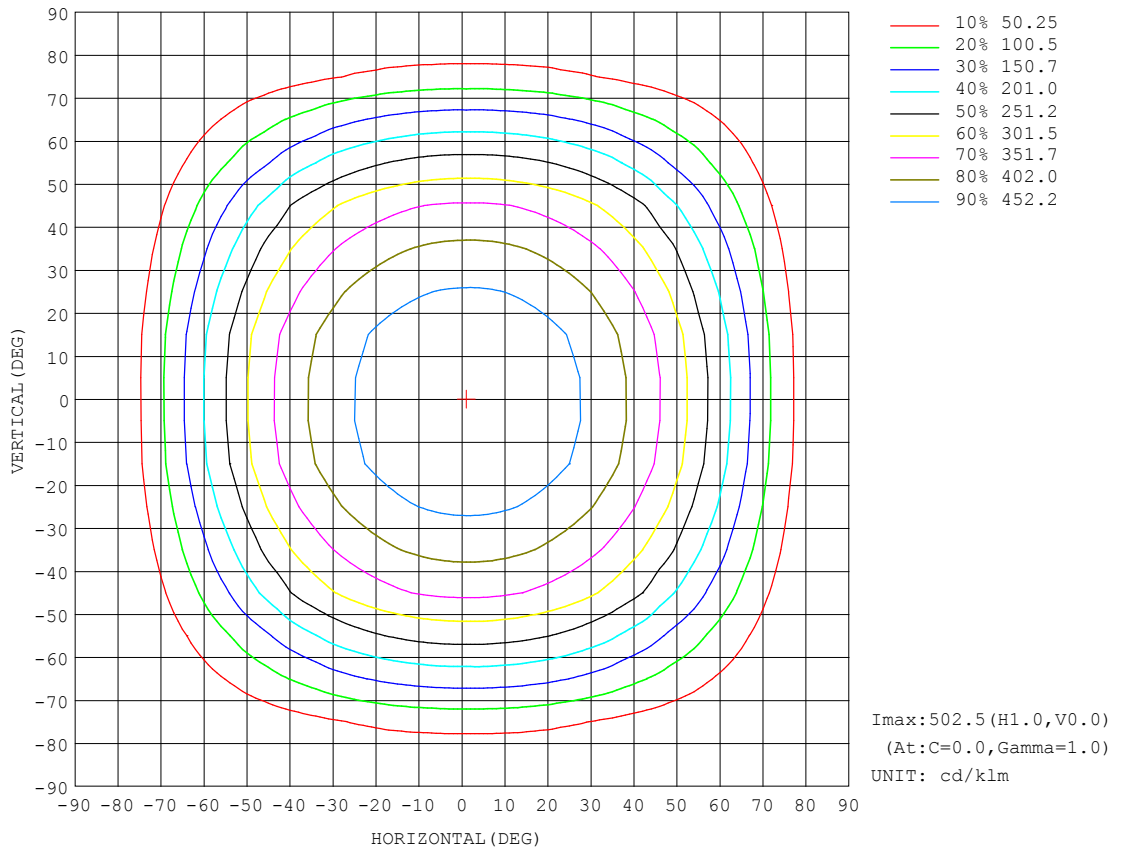
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	82	66	56	81	66	56	80	65	56	47
0.80	97	81	71	96	80	71	93	79	70	60
1.00	109	94	84	108	93	84	105	95	83	73
1.25	120	105	96	118	104	95	114	102	94	84
1.50	127	113	104	124	112	103	120	110	102	91
2.00	136	125	116	134	123	115	129	120	113	103
2.50	142	131	123	139	130	122	134	126	120	108
3.00	146	137	130	143	135	129	138	131	126	114
4.00	152	144	138	148	142	136	143	137	133	120
5.00	155	149	144	152	146	141	145	141	137	124
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:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:

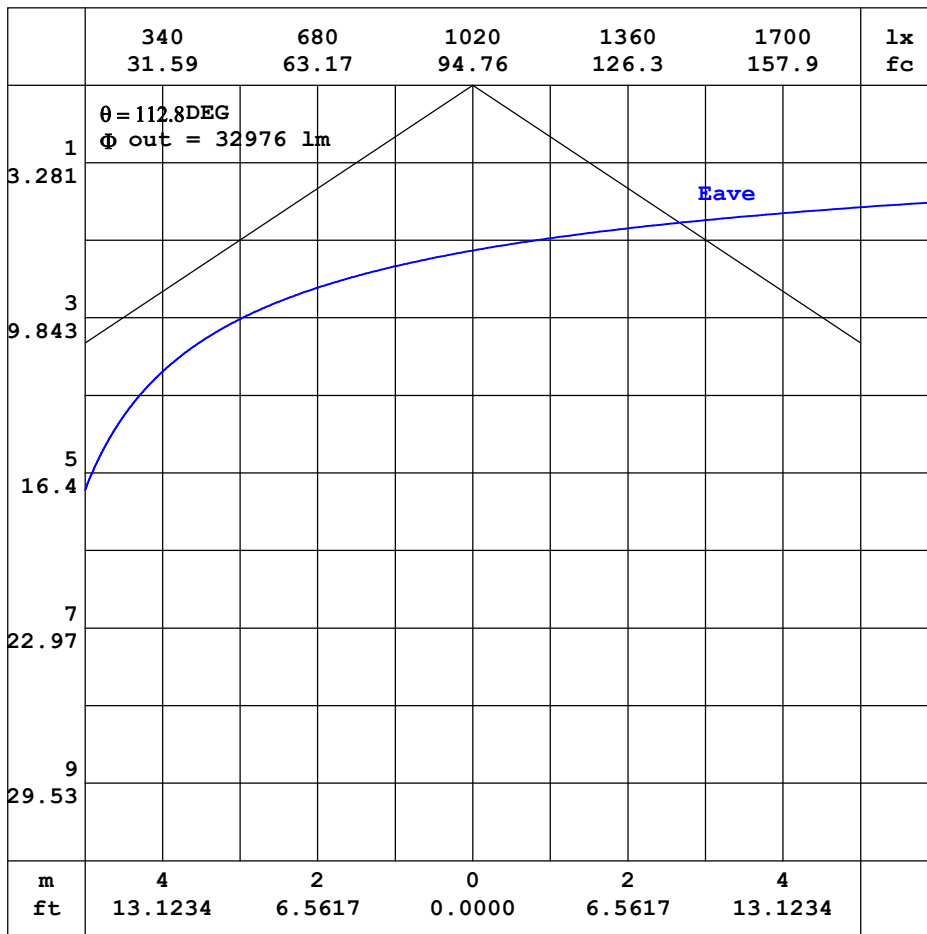


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:7.890m [K=1.0000]
 Remarks:

AAI CURVES

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:



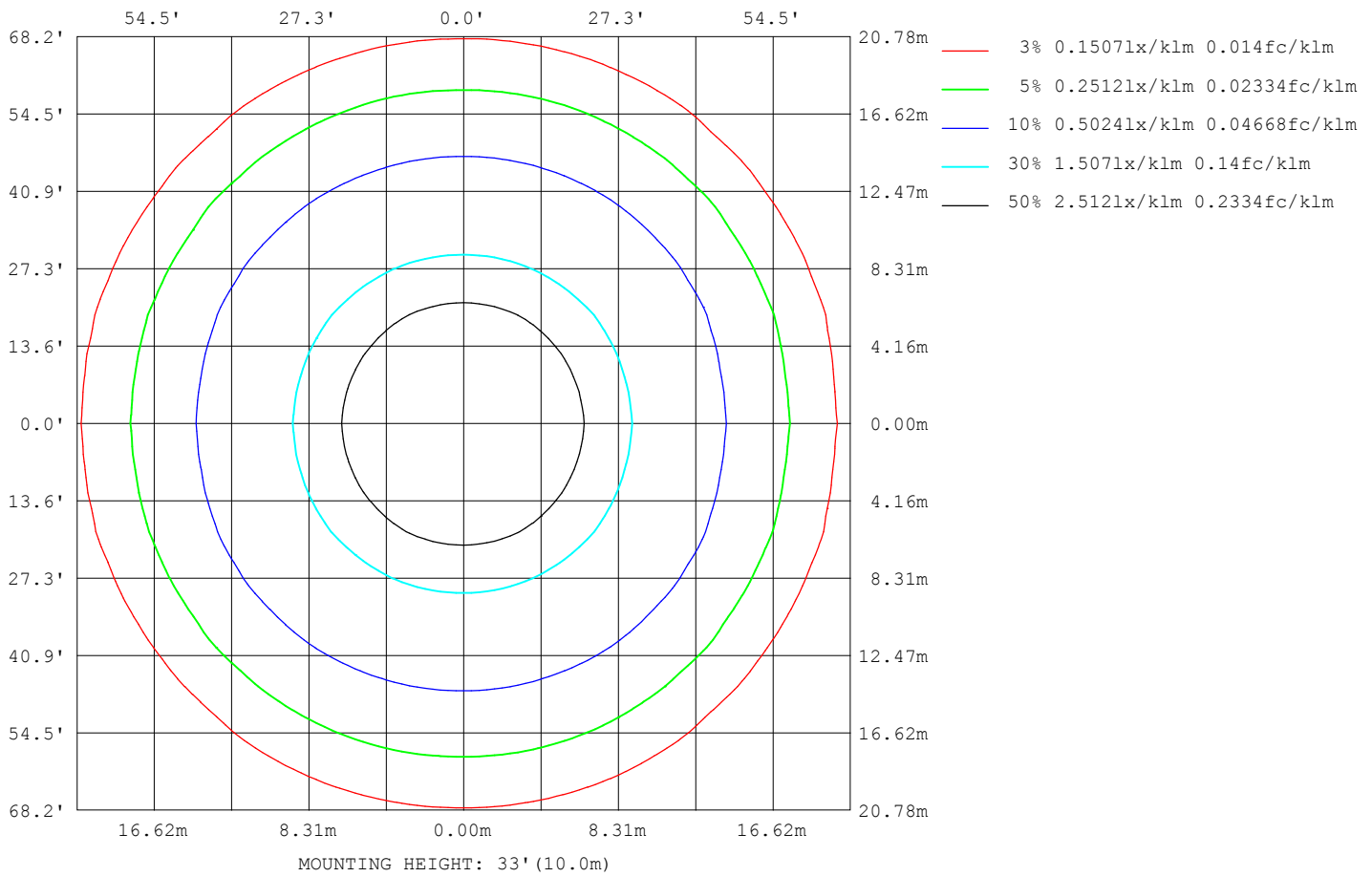
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:7.890m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:223.57V I:1.3985A P:308.69W PF:0.9873 Freq:49.98Hz Lamp Flux:30138x1 lm		
NAME: ASD-UHB2-300D50-PRM	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:90*90*3.14	Shielding Angle:

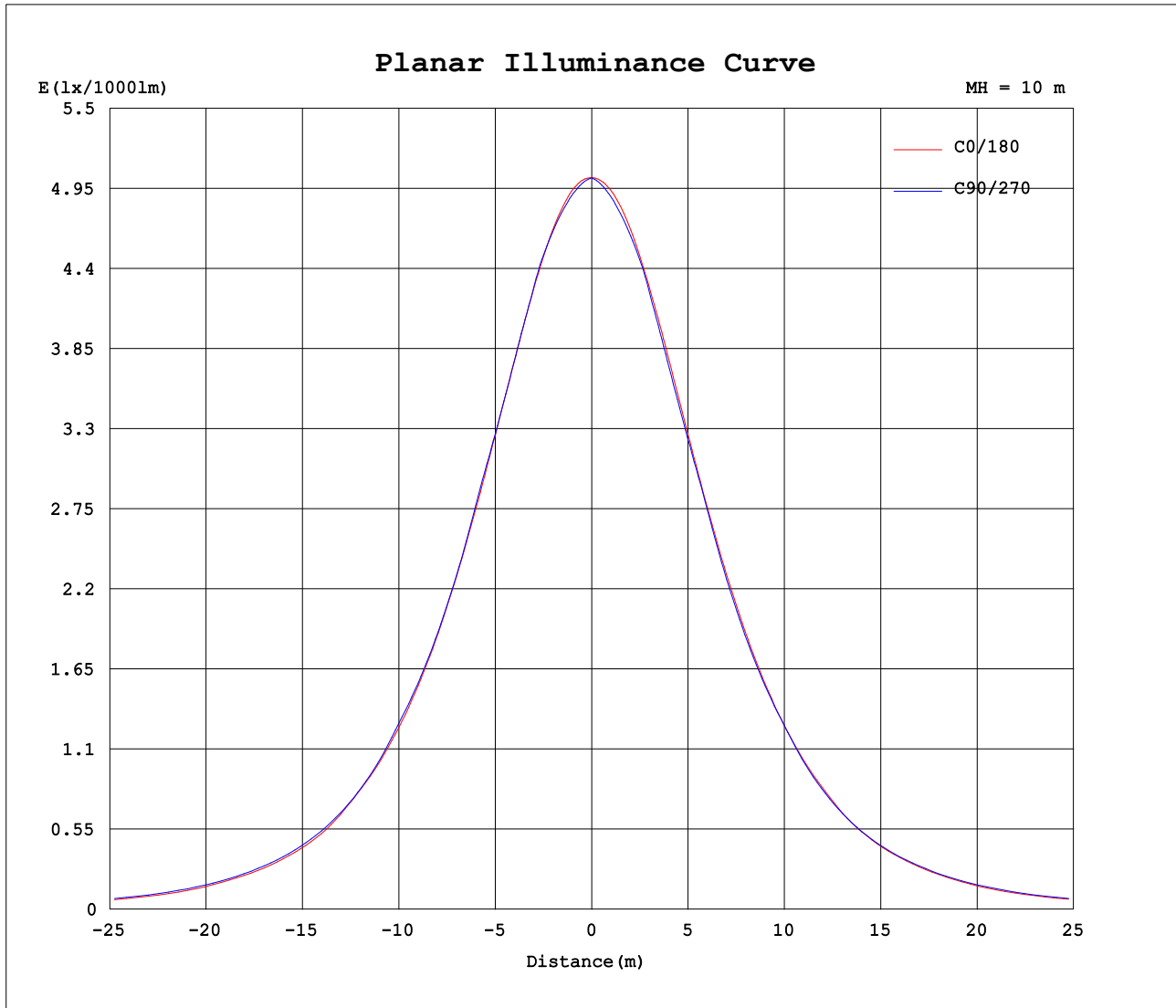
AvgL	cd/m2
L_0~180 (65) av	45319
L_0~180 (75) av	27186
L_0~180 (85) av	4551
L_90~270 (65) av	48668
L_90~270 (75) av	32176
L_90~270 (85) av	0
L_45 (65) av	47580
L_45 (75) av	31718
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:C
Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Humidity:65.0%
Test Distance:7.890m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:C
 Test Date:19 Nov 2019

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:7.890m [K=1.0000]
 Remarks:

