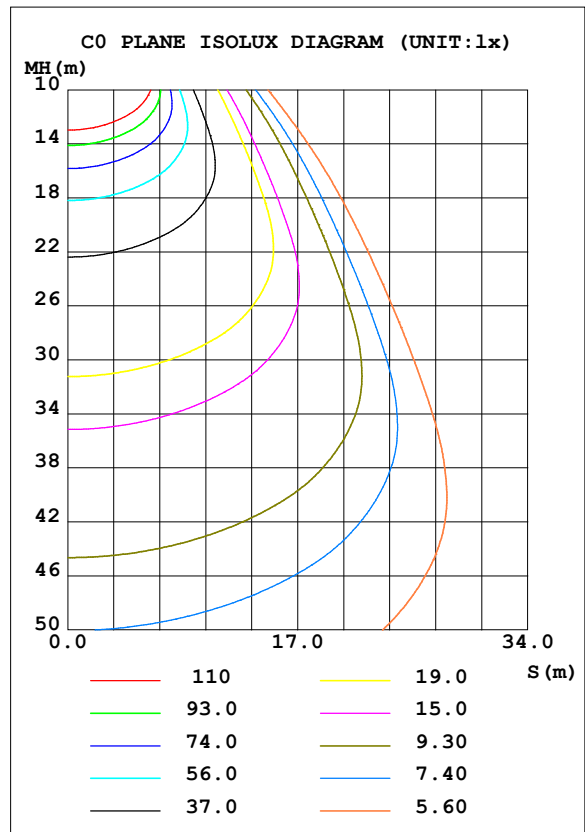
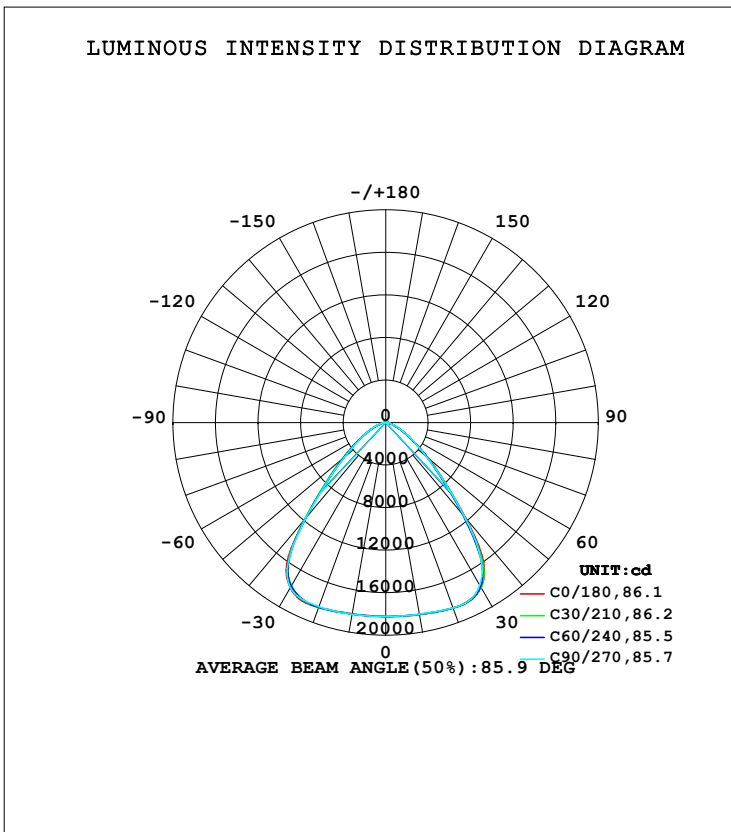


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.65 lm/W			
MODEL	ASD-UHB2A-240A50-BK	I _{max} (cd)	18602	S/MH (C0/180)	1.24
NOMINAL POWER (W)	240	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	37120	η UP, DN (C0-180)	0.5, 49.5
NOMINAL FLUX (lm)	37119.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.7, 49.4
LAMPS INSIDE	1	η up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	277	η down (%)	98.9	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: S
 Test Date: 2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.000m [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	1833	1831	1829	1826	1826	1828	1830	1833	0- 10	1743	1743	4.7,4.7
20	1854	1855	1853	1845	1848	1849	1842	1841	10- 20	5214	6957	18.7,18.7
30	1785	1796	1767	1800	1794	1767	1793	1786	20- 30	8488	15445	41.6,41.6
40	1167	1148	1145	1208	1180	1164	1165	1151	30- 40	9670	25115	67.7,67.7
50	528.3	505.9	505.4	535.0	520.6	511.0	508.7	514.2	40- 50	6104	31219	84.1,84.1
60	224.1	237.1	232.2	232.1	235.2	239.5	236.3	224.3	50- 60	3169	34389	92.6,92.6
70	92.09	102.1	98.01	89.17	92.99	103.9	103.1	89.58	60- 70	1545	35934	96.8,96.8
80	28.50	32.66	31.18	27.01	29.50	34.30	34.55	28.87	70- 80	626.9	36561	98.5,98.5
90	0.3635	0.3694	0.3713	0.3580	2.575	2.576	2.574	2.575	80- 90	135.8	36696	98.9,98.9
100	0.8733	0.8942	0.8975	0.8668	3.214	3.211	3.197	3.204	90-100	18.78	36715	98.9,98.9
110	2.014	2.026	2.038	1.992	4.415	4.385	4.366	4.429	100-110	27.06	36742	99,99
120	4.218	4.200	4.232	4.169	6.446	6.401	6.362	6.505	110-120	41.36	36783	99.1,99.1
130	7.167	7.141	7.178	7.100	9.112	9.075	9.033	9.205	120-130	59.82	36843	99.3,99.3
140	9.999	10.03	10.03	9.979	11.62	11.58	11.57	11.66	130-140	73.37	36917	99.5,99.5
150	12.35	12.43	12.39	12.39	13.58	13.50	13.54	13.62	140-150	74.62	36991	99.7,99.7
160	14.89	14.92	14.92	14.89	15.67	15.56	15.55	15.67	150-160	64.78	37056	99.8,99.8
170	17.52	17.52	17.50	17.49	17.91	17.84	17.79	17.81	160-170	46.48	37103	100,100
180	18.67	18.71	18.62	18.61	18.73	18.66	18.65	18.58	170-180	17.31	37120	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 28653 lm

%lum = 77.2%

%lamp = 77.2%

Conical surface Flux(130deg): 35312 lm

%lum = 95.1%

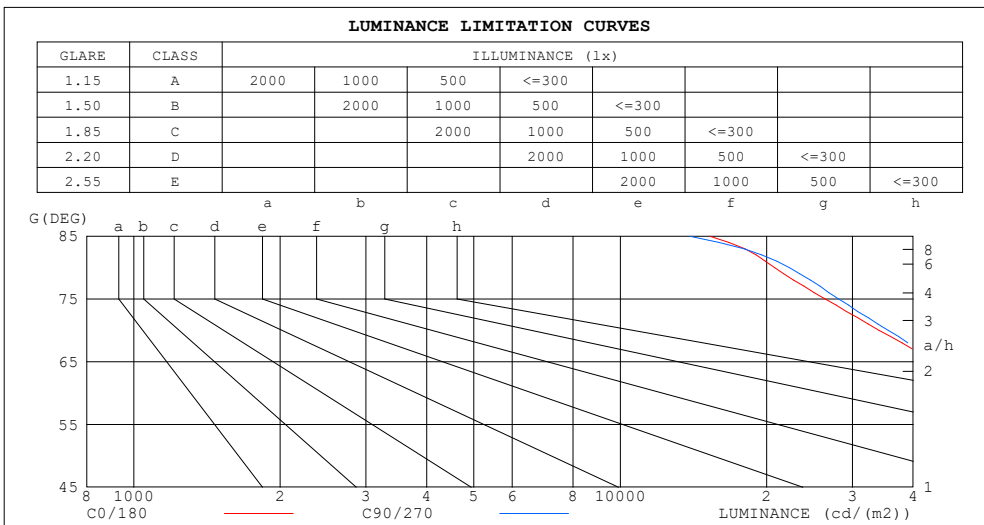
%lamp = 95.1%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15297	13910
80	20757	22277
75	26404	28132
70	34056	35546
65	43897	45005
60	56695	57608
55	75125	74013
50	103960	97535
45	139488	134194

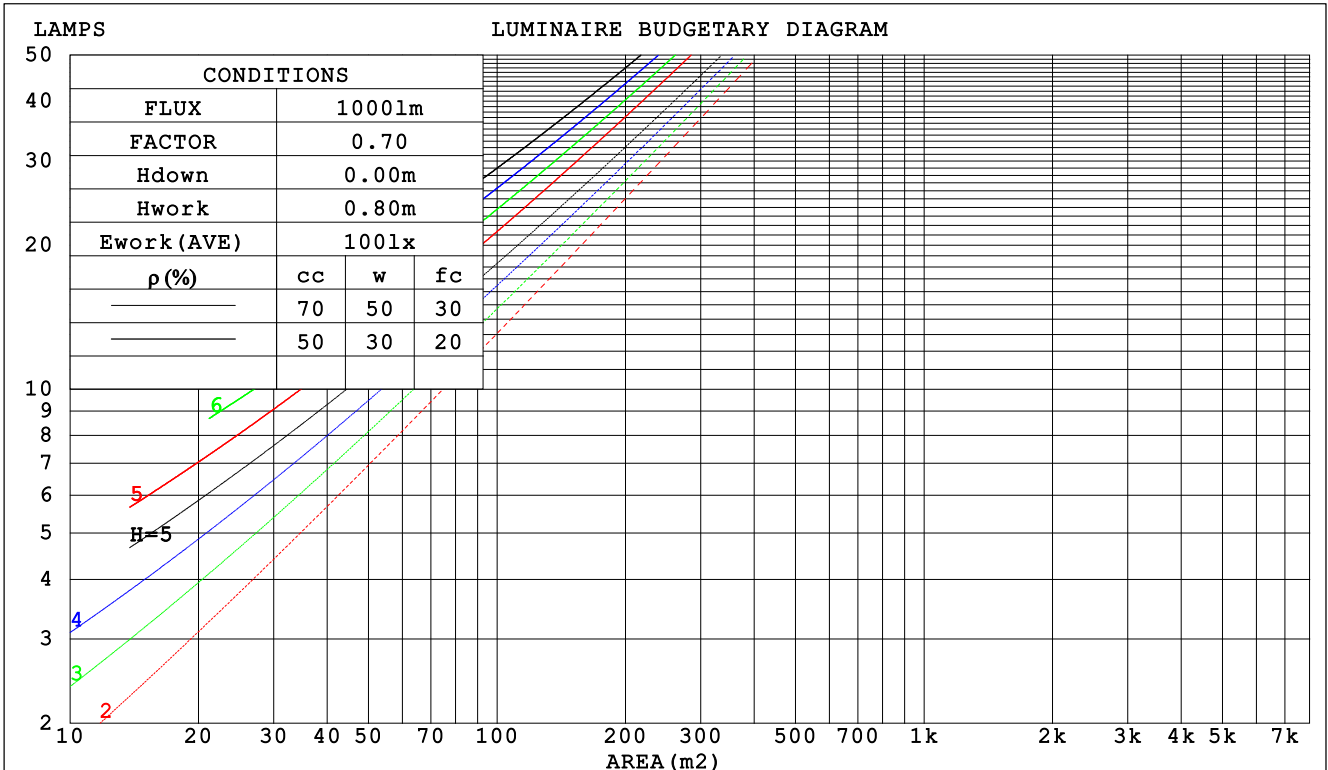
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.08	1.04	1.02	1.05	1.02	.90	1.01	.99	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.74	.71	.69
4.0	.80	.73	.67	.78	.72	.67	.76	.70	.66	.74	.69	.65	.71	.67	.64	.62
5.0	.73	.65	.60	.72	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.57	.55
6.0	.66	.59	.53	.65	.58	.53	.64	.57	.53	.62	.56	.52	.60	.55	.52	.50
7.0	.61	.53	.48	.60	.53	.48	.59	.52	.48	.57	.51	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37
10.0	.48	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.40	.36	.34



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	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	.232	.132	.042	.225	.128	.041	.211	.121	.039	.199	.115	.037	.187	.109	.035	
2.0	.225	.123	.038	.218	.120	.037	.207	.115	.036	.196	.110	.034	.186	.105	.033	
3.0	.214	.114	.034	.208	.112	.034	.198	.107	.033	.189	.103	.032	.180	.100	.031	
4.0	.202	.105	.031	.197	.103	.031	.188	.100	.030	.180	.097	.029	.172	.094	.029	
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.171	.090	.027	.164	.088	.026	
6.0	.181	.091	.026	.177	.089	.026	.170	.087	.025	.163	.085	.025	.157	.083	.025	
7.0	.171	.085	.024	.168	.083	.024	.161	.081	.023	.155	.080	.023	.150	.078	.023	
8.0	.162	.079	.022	.159	.078	.022	.153	.077	.022	.148	.075	.022	.143	.073	.021	
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.020	.141	.071	.020	.136	.069	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.134	.067	.019	.130	.066	.019	

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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.184	.166	.149	.157	.142	.128	.108	.098	.089	.062	.057	.052	.020	.018	.017	
2.0	.172	.141	.115	.147	.121	.099	.101	.084	.069	.058	.049	.041	.019	.016	.013	
3.0	.163	.123	.091	.139	.106	.079	.096	.074	.055	.055	.043	.033	.018	.014	.011	
4.0	.154	.109	.074	.132	.094	.064	.091	.066	.045	.053	.038	.027	.017	.013	.009	
5.0	.147	.098	.062	.126	.085	.054	.087	.059	.038	.050	.035	.023	.016	.011	.007	
6.0	.140	.089	.053	.120	.077	.046	.083	.054	.033	.048	.032	.019	.016	.010	.006	
7.0	.134	.082	.046	.115	.071	.040	.080	.050	.028	.046	.029	.017	.015	.010	.006	
8.0	.128	.076	.041	.110	.066	.036	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.123	.071	.037	.106	.062	.032	.073	.044	.023	.043	.026	.014	.014	.008	.004	
10.0	.118	.067	.033	.102	.058	.029	.071	.041	.021	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*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	27.2	28.4	27.5	28.7	28.9	27.1	28.3	27.3	28.5	28.7
3H	27.5	28.6	27.7	28.8	29.1	27.3	28.5	27.6	28.7	28.9
4H	27.5	28.6	27.8	28.8	29.1	27.4	28.5	27.7	28.7	29.0
6H	27.5	28.5	27.8	28.8	29.1	27.4	28.4	27.7	28.7	29.0
8H	27.5	28.5	27.8	28.8	29.1	27.4	28.3	27.7	28.6	28.9
12H	27.5	28.4	27.8	28.7	29.0	27.3	28.3	27.7	28.6	28.9
4H 2H	27.2	28.3	27.6	28.6	28.8	27.1	28.2	27.4	28.4	28.7
3H	27.6	28.5	27.9	28.8	29.1	27.5	28.4	27.8	28.7	29.0
4H	27.7	28.5	28.1	28.9	29.2	27.6	28.4	28.0	28.8	29.1
6H	27.8	28.5	28.2	28.9	29.3	27.7	28.4	28.1	28.8	29.1
8H	27.8	28.5	28.2	28.8	29.2	27.7	28.4	28.1	28.7	29.1
12H	27.8	28.4	28.2	28.8	29.2	27.7	28.3	28.1	28.7	29.1
8H 4H	27.7	28.4	28.1	28.7	29.1	27.6	28.3	28.0	28.6	29.0
6H	27.8	28.4	28.2	28.8	29.2	27.7	28.3	28.1	28.7	29.1
8H	27.8	28.3	28.3	28.8	29.2	27.7	28.2	28.2	28.7	29.1
12H	27.8	28.3	28.3	28.7	29.2	27.7	28.1	28.2	28.6	29.1
12H 4H	27.6	28.3	28.1	28.7	29.1	27.5	28.2	28.0	28.6	29.0
6H	27.8	28.3	28.2	28.7	29.2	27.7	28.2	28.1	28.6	29.1
8H	27.8	28.2	28.3	28.7	29.2	27.7	28.1	28.2	28.6	29.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.2 / - 1.8					+ 1.2 / - 1.7				
1.5H	+ 1.6 / - 1.3					+ 1.5 / - 1.1				
2.0H	+ 2.3 / - 1.9					+ 2.2 / - 1.8				

CIE Pub.117, 37120 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.6)
Area: 0.08038 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2024-3-10

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

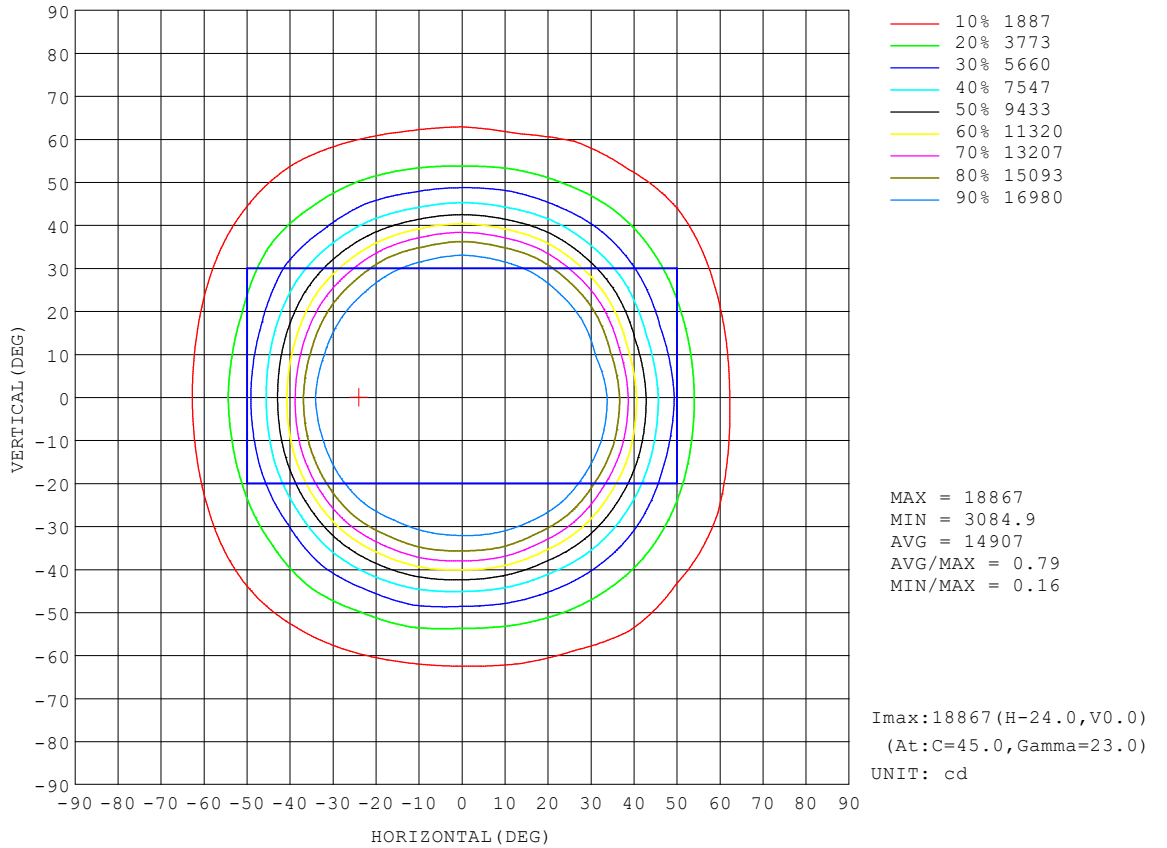
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	56	70	62	56	69	61	56	51
0.80	81	72	66	80	71	66	78	71	66	60
1.00	88	80	74	87	79	74	85	79	73	68
1.25	94	86	81	92	85	80	90	84	80	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	107	103	99	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	106	110	106	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:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

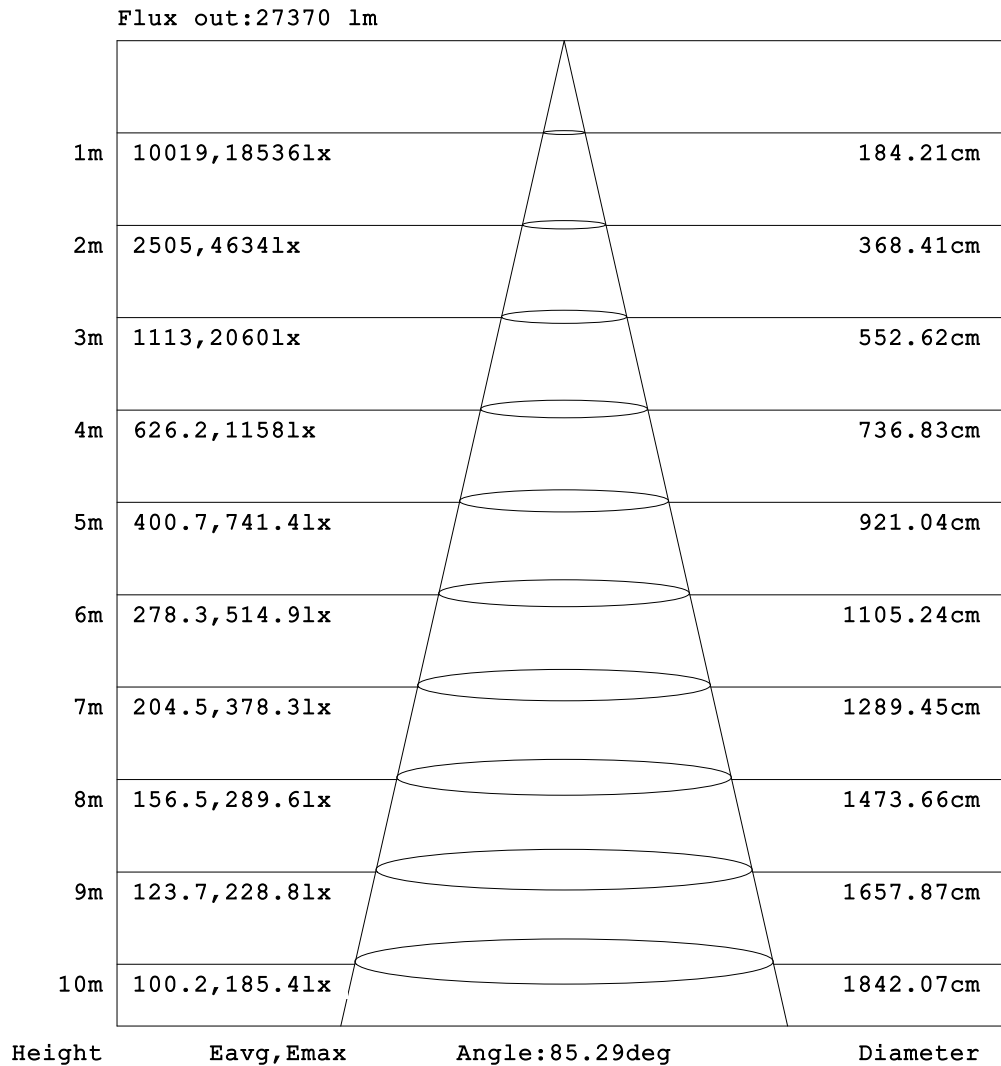


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:



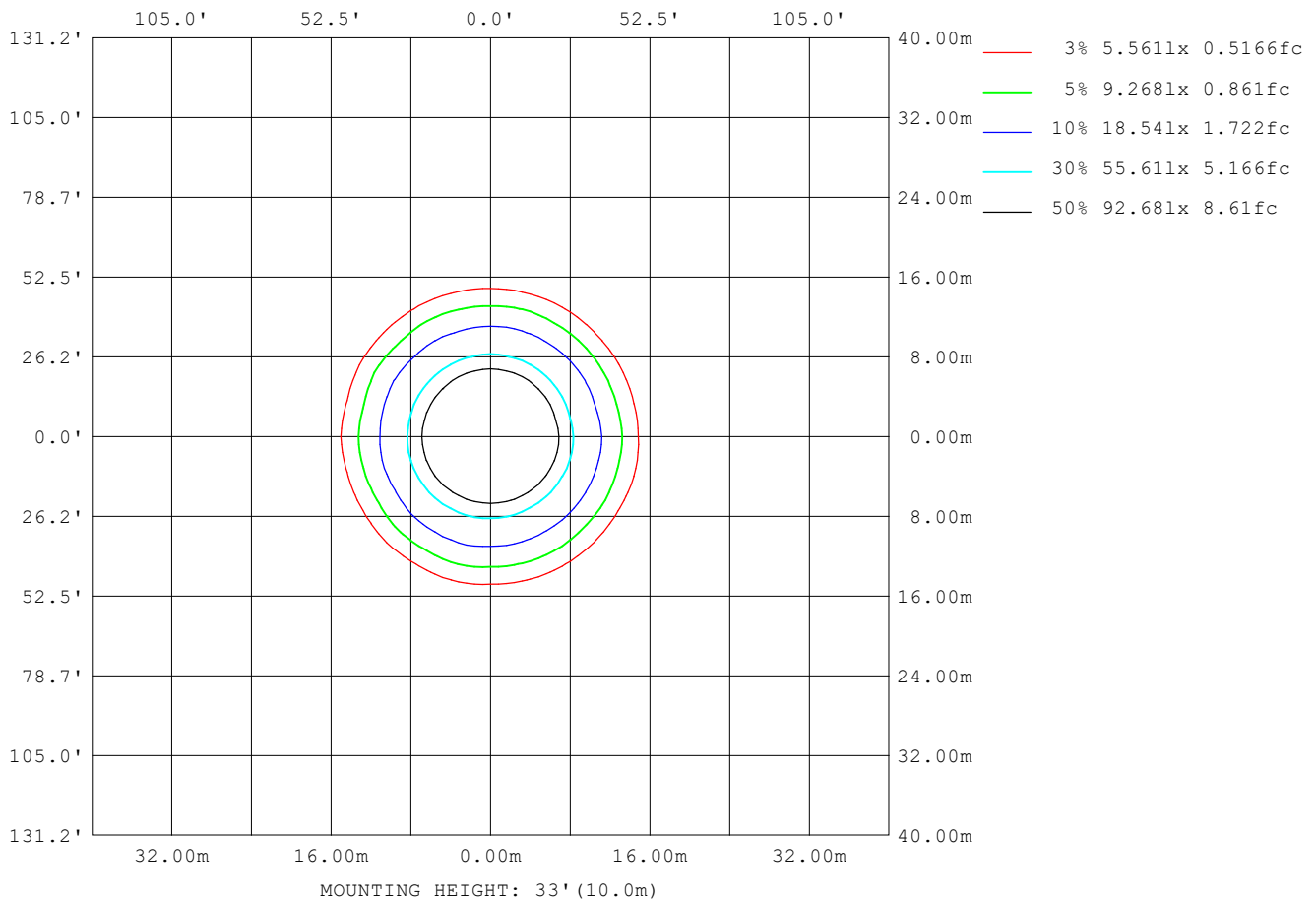
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

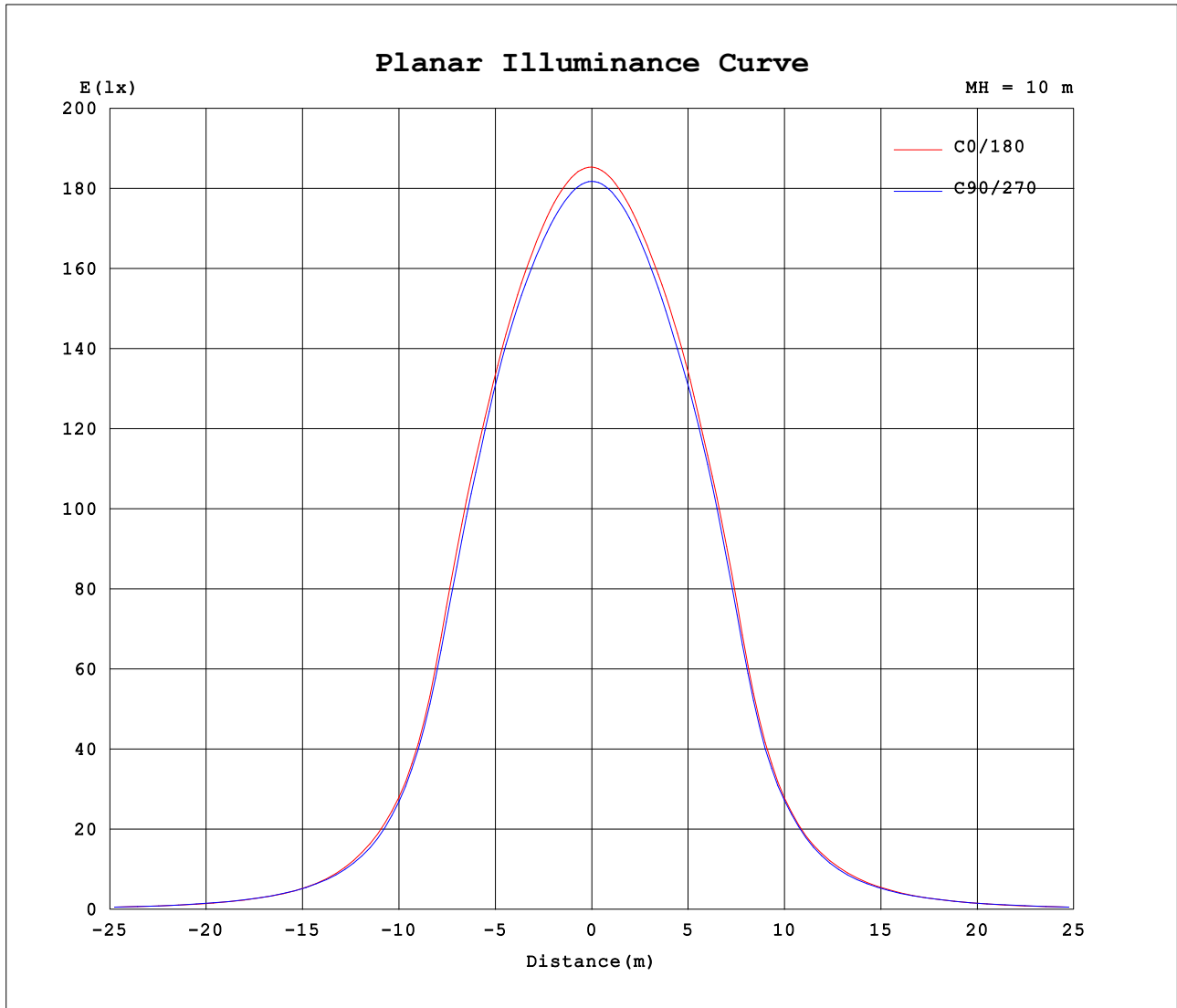
AvgL	cd/m2
L_0~180 (65) av	43796
L_0~180 (75) av	26125
L_0~180 (85) av	15501
L_90~270 (65) av	45994
L_90~270 (75) av	29306
L_90~270 (85) av	16424
L_45 (65) av	44922
L_45 (75) av	27557
L_45 (85) av	15855

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: S
 Test Date: 2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823	1823
5	1826	1826	1826	1825	1825	1824	1824	1823	1823	1823	1822	1822	1822	1823	1823	1824	1824	1824	1825
10	1833	1833	1832	1831	1830	1829	1829	1828	1827	1826	1826	1825	1826	1827	1828	1828	1828	1829	1830
15	1844	1843	1842	1841	1841	1840	1840	1838	1836	1834	1832	1831	1834	1836	1838	1838	1838	1837	1837
20	1854	1854	1855	1855	1856	1854	1853	1852	1850	1845	1843	1841	1848	1849	1850	1849	1848	1845	1842
25	1848	1851	1852	1855	1855	1853	1850	1850	1850	1852	1851	1851	1853	1846	1841	1837	1838	1838	1839
30	1785	1795	1793	1796	1783	1780	1767	1772	1778	1800	1810	1812	1794	1775	1770	1767	1778	1785	1793
35	1605	1614	1584	1583	1558	1569	1561	1583	1587	1627	1639	1655	1622	1598	1598	1583	1595	1578	1599
40	1167	1181	1148	1148	1123	1147	1145	1178	1179	1208	1211	1237	1180	1175	1185	1164	1167	1151	1165
45	780	788	770	765	748	763	765	791	794	797	779	801	775	786	796	779	775	756	772
50	528	510	517	506	509	511	505	538	517	535	506	528	521	507	544	511	529	511	509
55	341	349	341	342	346	346	342	358	347	355	343	349	354	339	359	351	354	350	343
60	224	239	223	237	230	235	232	235	232	232	232	232	235	230	234	240	237	233	236
65	147	159	144	160	149	156	153	150	154	148	154	153	151	152	151	160	156	152	159
70	92.1	102	89.2	102	92.3	99.5	98.0	91.4	98.4	89.2	97.9	95.9	93.0	99.5	93.2	104	98.6	96.2	103
75	54.0	61.7	51.8	61.6	54.5	59.3	58.7	53.1	58.7	51.2	58.0	56.7	54.7	61.1	54.1	63.3	59.0	58.1	63.2
80	28.5	32.7	27.2	32.7	28.9	30.9	31.2	28.0	30.4	27.0	29.8	30.0	29.5	32.8	29.2	34.3	31.8	31.7	34.6
85	10.5	11.3	9.55	10.6	9.60	10.0	9.77	9.40	9.53	9.24	9.74	10.10	11.2	11.8	11.7	12.8	12.7	12.5	13.2
90	0.36	0.36	0.37	0.37	0.38	0.37	0.37	0.36	0.37	0.36	0.36	0.35	2.57	2.58	2.57	2.58	2.57	2.58	2.57
95	0.57	0.56	0.58	0.58	0.59	0.57	0.58	0.57	0.58	0.56	0.57	0.55	2.84	2.84	2.83	2.84	2.83	2.84	2.83
100	0.87	0.88	0.90	0.89	0.91	0.88	0.90	0.87	0.89	0.87	0.88	0.86	3.21	3.22	3.19	3.21	3.19	3.21	3.20
105	1.33	1.34	1.37	1.36	1.38	1.34	1.36	1.33	1.35	1.32	1.34	1.31	3.73	3.73	3.70	3.71	3.69	3.71	3.70
110	2.01	2.01	2.06	2.03	2.05	2.01	2.04	2.01	2.03	1.99	2.01	1.96	4.42	4.42	4.38	4.38	4.35	4.38	4.37
115	2.97	2.96	3.02	2.97	3.01	2.96	3.00	2.96	2.99	2.94	2.96	2.89	5.32	5.33	5.27	5.28	5.23	5.27	5.25
120	4.22	4.20	4.25	4.20	4.24	4.19	4.23	4.19	4.22	4.17	4.19	4.12	6.45	6.46	6.39	6.40	6.34	6.38	6.36
125	5.65	5.63	5.67	5.63	5.67	5.62	5.66	5.61	5.65	5.59	5.62	5.54	7.74	7.76	7.69	7.70	7.64	7.68	7.66
130	7.17	7.14	7.18	7.14	7.18	7.13	7.18	7.12	7.16	7.10	7.13	7.05	9.11	9.13	9.06	9.08	9.01	9.06	9.03
135	8.65	8.63	8.66	8.64	8.67	8.63	8.66	8.61	8.65	8.59	8.62	8.56	10.4	10.4	10.4	10.4	10.4	10.4	10.4
140	10.00	10.0	10.0	10.0	10.1	10.0	10.03	9.99	10.02	9.98	10.00	9.95	11.6	11.6	11.6	11.6	11.5	11.6	11.6
145	11.2	11.2	11.3	11.3	11.3	11.2	11.3	11.2	11.3	11.2	11.2	11.2	12.7	12.6	12.6	12.6	12.6	12.6	12.6
150	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	13.6	13.5	13.5	13.5	13.5	13.5	13.5
155	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.5	14.5	14.5	14.4	14.4	14.4	14.4	14.5
160	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	15.7	15.7	15.6	15.6	15.5	15.5	15.5
165	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.9	16.9	16.9	16.8	16.8	16.7	16.8
170	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.9	17.9	17.9	17.8	17.8	17.8	17.8
175	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.2	18.2	18.5	18.5	18.4	18.4	18.4	18.4
180	18.7	18.7	18.7	18.7	18.7	18.7	18.6	18.6	18.6	18.6	18.6	18.6	18.7	18.7	18.7	18.7	18.7	18.6	18.6

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.69V I:0.8656A P:240.02W PF:0.9986 Freq:50.00Hz Lamp Flux:37119.8x1 lm		
NAME: ASD-UHB2A-240A50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 160*160*3.14	Shielding Angle:

Table--2

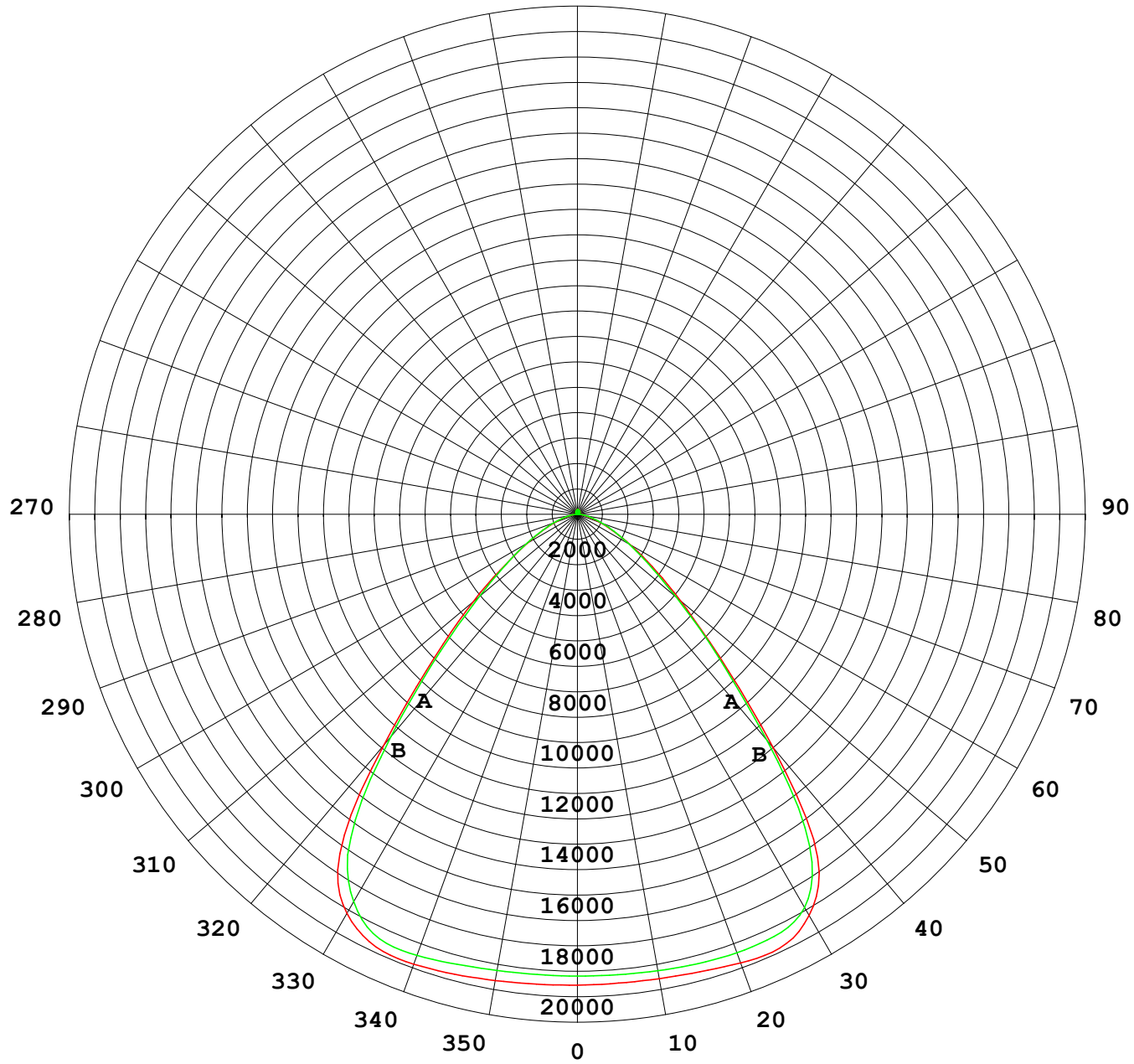
UNIT: X10cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1823	1823	1823	1823	1823														
5	1826	1826	1827	1827	1827														
10	1831	1832	1833	1833	1834														
15	1837	1838	1839	1841	1842														
20	1840	1840	1841	1844	1846														
25	1835	1834	1833	1834	1835														
30	1790	1791	1786	1785	1777														
35	1587	1605	1593	1606	1591														
40	1151	1170	1151	1160	1136														
45	763	775	760	768	749														
50	521	505	514	508	498														
55	346	344	342	341	342														
60	226	237	224	231	229														
65	145	161	144	155	149														
70	89.9	104	89.6	98.6	94.7														
75	53.3	64.0	53.2	59.8	56.8														
80	29.1	35.2	28.9	33.0	30.5														
85	12.0	13.6	11.7	13.2	11.8														
90	2.58	2.57	2.57	2.57	2.58														
95	2.84	2.83	2.83	2.83	2.84														
100	3.21	3.20	3.20	3.20	3.22														
105	3.72	3.71	3.72	3.71	3.74														
110	4.41	4.39	4.43	4.41	4.46														
115	5.31	5.29	5.36	5.34	5.40														
120	6.43	6.42	6.51	6.49	6.57														
125	7.73	7.72	7.82	7.82	7.90														
130	9.11	9.10	9.20	9.20	9.28														
135	10.4	10.4	10.5	10.5	10.6														
140	11.6	11.6	11.7	11.7	11.7														
145	12.6	12.6	12.7	12.7	12.7														
150	13.6	13.6	13.6	13.6	13.6														
155	14.5	14.5	14.6	14.5	14.6														
160	15.6	15.6	15.7	15.7	15.7														
165	16.8	16.8	16.8	16.9	16.9														
170	17.8	17.8	17.8	17.8	17.8														
175	18.4	18.4	18.4	18.4	18.4														
180	18.6	18.6	18.6	18.6	18.6														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2024-3-10

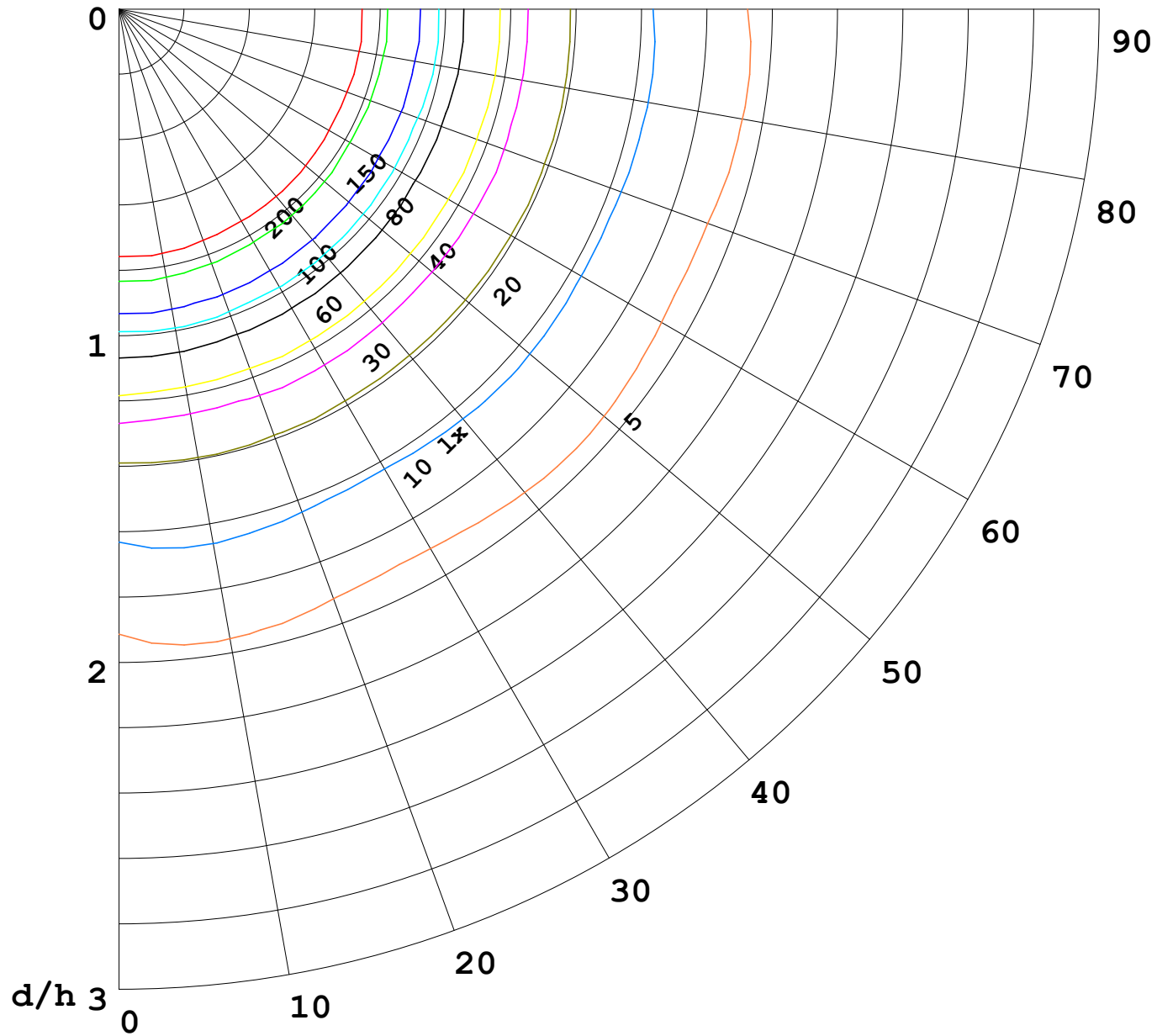
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

I (cd)



1000 lm

$K = 1$



F = 1000 lm
 K = 0.7
 Hcc = 0.8 m
 Hfc = 0.0 m
 Eave = 100 lx

	Pcc	Pw	Pfc
—	70	50	30
—	50	30	20

