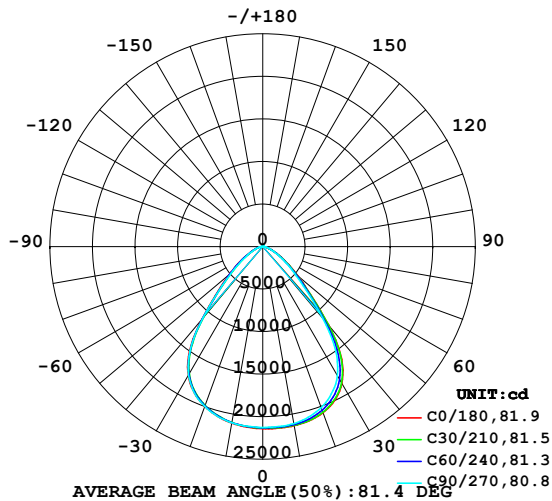


LUMINAIRE PHOTOMETRIC TEST REPORT

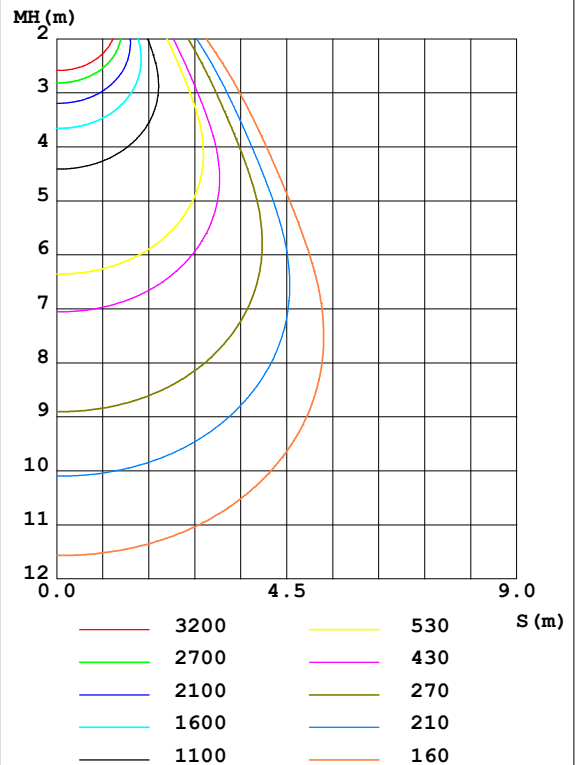
Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.82 lm/W			
MODEL	ASD-UHB2A-ST-240BK	I _{max} (cd)	21424	S/MH(C0/180)	1.17
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	37646	η UP,DN(C0-180)	0.5,49.6
NOMINAL FLUX(lm)	37645.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.6,49.3
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	98.9	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

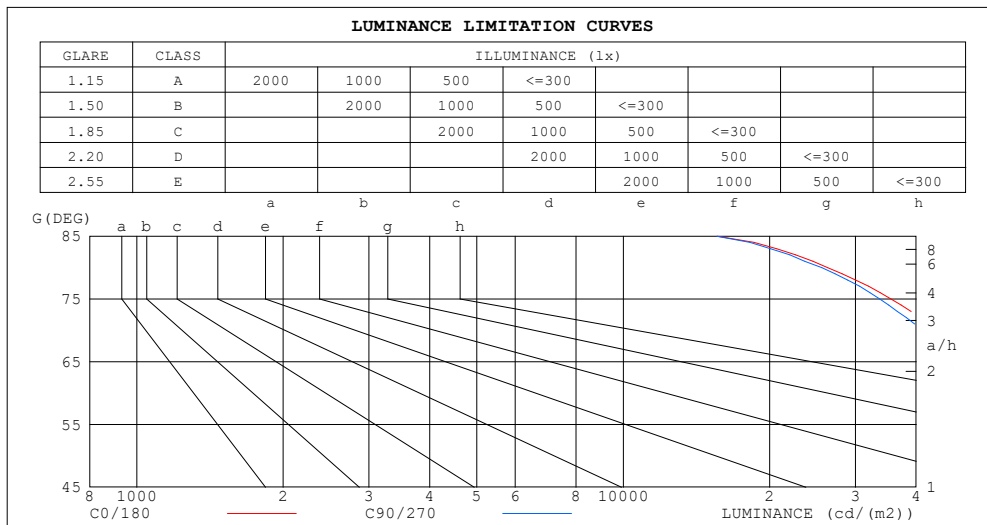
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2137	2129	2112	2089	2107	2099	2102	2110	0- 10	2023	2023	5.37,5.37
20	2077	2060	2013	1962	1997	1986	1999	2019	10- 20	5853	7876	20.9,20.9
30	1861	1831	1756	1674	1750	1731	1746	1764	20- 30	8784	16660	44.3,44.3
40	1206	1173	1097	1026	1111	1090	1096	1114	30- 40	9229	25889	68.8,68.8
50	545.2	527.3	488.7	478.8	518.7	497.8	482.0	514.9	40- 50	5843	31732	84.3,84.3
60	247.9	240.1	225.8	220.2	238.1	230.8	216.0	237.7	50- 60	3157	34889	92.7,92.7
70	104.1	101.3	96.71	93.87	100.0	97.75	93.60	102.4	60- 70	1546	36435	96.8,96.8
80	31.21	30.97	30.35	29.56	32.41	32.60	31.54	33.97	70- 80	657.0	37092	98.5,98.5
90	0.4382	0.4347	0.4264	0.3801	1.491	1.468	1.430	1.458	80- 90	127.6	37219	98.9,98.9
100	0.9739	0.9666	0.9503	0.9213	2.198	2.160	2.093	2.125	90-100	13.28	37233	98.9,98.9
110	2.124	2.105	2.084	2.076	3.531	3.459	3.330	3.330	100-110	22.05	37255	99,99
120	4.299	4.267	4.269	4.269	5.962	5.821	5.586	5.480	110-120	37.45	37292	99.1,99.1
130	7.415	7.375	7.407	7.404	9.336	9.114	8.784	8.554	120-130	58.39	37351	99.2,99.2
140	10.64	10.58	10.61	10.65	12.61	12.33	11.97	11.66	130-140	75.49	37426	99.4,99.4
150	13.53	13.48	13.53	13.59	15.35	15.03	14.68	14.40	140-150	80.23	37506	99.6,99.6
160	16.02	15.96	16.08	16.11	17.45	17.09	16.74	16.52	150-160	70.65	37577	99.8,99.8
170	18.92	18.93	18.92	18.84	19.85	19.44	19.09	18.84	160-170	50.06	37627	99.9,99.9
180	21.00	20.90	20.69	20.41	21.12	20.88	20.64	20.43	170-180	18.88	37646	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15635	15571
80	26308	25587
75	35539	33670
70	44549	41393
65	56026	51532
60	72564	66108
55	95014	86120
50	124155	111298
45	164916	149414

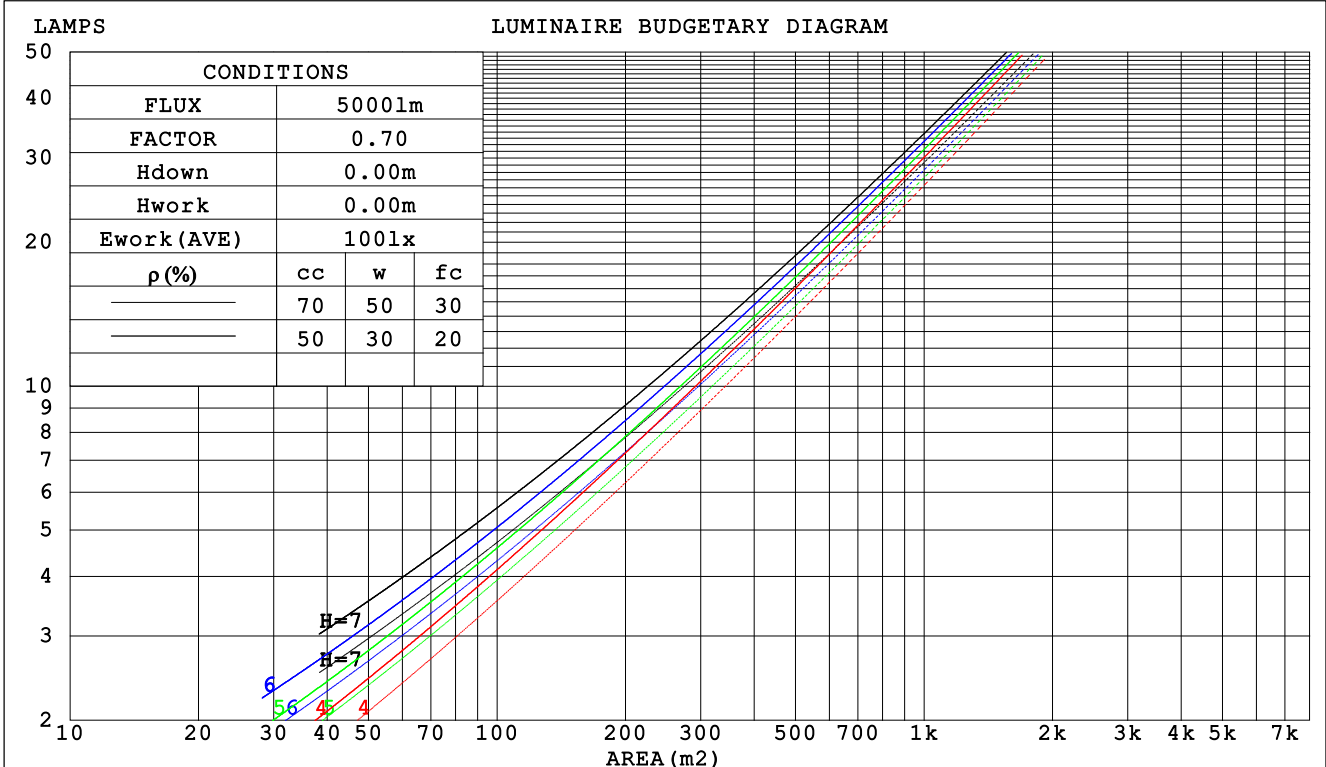
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz		
Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.05	1.02	1.05	1.03	1.00	1.01	.99	.97	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.85	.83	.86	.83	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.73	.79	.75	.72	.70
4.0	.80	.73	.68	.79	.72	.67	.77	.71	.66	.74	.69	.65	.72	.68	.65	.63
5.0	.73	.66	.61	.72	.65	.60	.70	.64	.59	.68	.63	.59	.66	.62	.58	.56
6.0	.67	.60	.54	.66	.59	.54	.65	.58	.54	.63	.57	.53	.61	.56	.53	.51
7.0	.62	.54	.49	.61	.54	.49	.60	.53	.49	.58	.53	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.57	.50	.45	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.40	.49	.44	.40	.39
10.0	.49	.42	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.46	.41	.37	.36



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz		
Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

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	.229	.130	.041	.222	.127	.040	.208	.120	.038	.196	.113	.036	.185	.107	.035		
2.0	.222	.122	.037	.215	.119	.037	.204	.113	.035	.193	.108	.034	.183	.104	.033		
3.0	.211	.112	.034	.205	.110	.033	.195	.106	.032	.186	.102	.031	.177	.098	.030		
4.0	.199	.104	.030	.195	.102	.030	.186	.098	.029	.177	.095	.029	.169	.092	.028		
5.0	.188	.096	.028	.184	.094	.028	.176	.092	.027	.169	.089	.026	.162	.086	.026		
6.0	.178	.089	.026	.174	.088	.025	.167	.086	.025	.160	.083	.025	.154	.081	.024		
7.0	.168	.083	.024	.165	.082	.023	.159	.080	.023	.153	.078	.023	.147	.076	.022		
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.145	.074	.021	.140	.072	.021		
9.0	.151	.073	.020	.149	.072	.020	.143	.071	.020	.139	.069	.020	.134	.068	.020		
10.0	.144	.069	.019	.141	.068	.019	.137	.067	.019	.132	.066	.019	.128	.064	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.183	.166	.149	.157	.142	.129	.107	.098	.089	.062	.057	.052	.020	.018	.017	
2.0	.172	.141	.115	.147	.121	.100	.101	.084	.069	.058	.049	.041	.019	.016	.013	
3.0	.162	.123	.091	.139	.106	.079	.095	.074	.056	.055	.043	.033	.018	.014	.011	
4.0	.153	.109	.075	.132	.094	.065	.091	.065	.046	.052	.038	.027	.017	.012	.009	
5.0	.146	.098	.062	.125	.085	.054	.086	.059	.038	.050	.035	.023	.016	.011	.007	
6.0	.139	.089	.053	.120	.077	.046	.082	.054	.033	.048	.032	.019	.015	.010	.006	
7.0	.133	.082	.046	.114	.071	.040	.079	.050	.029	.046	.029	.017	.015	.010	.006	
8.0	.127	.076	.041	.109	.066	.036	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.122	.071	.037	.105	.062	.032	.073	.043	.023	.042	.026	.014	.014	.008	.005	
10.0	.117	.067	.034	.101	.058	.029	.070	.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:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz										
Lamp Flux:37645.9x1 lm										
NAME: ASD-UHB2A-ST-240BK					TYPE: UHB2A ST					
SPEC.: 240W 5000K										
MFR.: ASD LIGHTING CORP										
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	25.3	26.6	25.7	27.0	27.3	24.6	25.9	25.0	26.2	26.6
3H	26.1	27.2	26.5	27.6	28.0	25.4	26.5	25.8	26.9	27.3
4H	26.3	27.4	26.8	27.8	28.2	25.6	26.7	26.1	27.1	27.5
6H	26.4	27.4	26.9	27.8	28.2	25.8	26.7	26.2	27.1	27.6
8H	26.4	27.4	26.9	27.8	28.2	25.8	26.7	26.2	27.1	27.5
12H	26.4	27.3	26.9	27.7	28.2	25.8	26.6	26.2	27.1	27.5
4H 2H	25.5	26.6	26.0	27.0	27.4	24.8	25.9	25.3	26.3	26.7
3H	26.5	27.3	26.9	27.8	28.2	25.8	26.6	26.2	27.1	27.5
4H	26.8	27.6	27.2	28.0	28.5	26.1	26.9	26.6	27.3	27.8
6H	27.0	27.6	27.5	28.1	28.6	26.3	27.0	26.8	27.4	27.9
8H	27.0	27.6	27.5	28.1	28.6	26.3	27.0	26.8	27.4	27.9
12H	27.0	27.5	27.5	28.0	28.5	26.3	26.9	26.8	27.4	27.9
8H 4H	26.8	27.5	27.3	27.9	28.4	26.2	26.8	26.7	27.3	27.8
6H	27.1	27.6	27.6	28.1	28.6	26.4	26.9	26.9	27.4	28.0
8H	27.1	27.6	27.7	28.1	28.6	26.5	26.9	27.0	27.5	28.0
12H	27.1	27.5	27.7	28.0	28.6	26.5	26.9	27.0	27.4	28.0
12H 4H	26.8	27.3	27.3	27.9	28.4	26.1	26.7	26.7	27.2	27.7
6H	27.0	27.5	27.6	28.0	28.6	26.4	26.9	27.0	27.4	27.9
8H	27.1	27.5	27.7	28.0	28.6	26.5	26.9	27.0	27.4	28.0
CIE190: 2010										

CIE190: 2010
Area: 0.068315 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

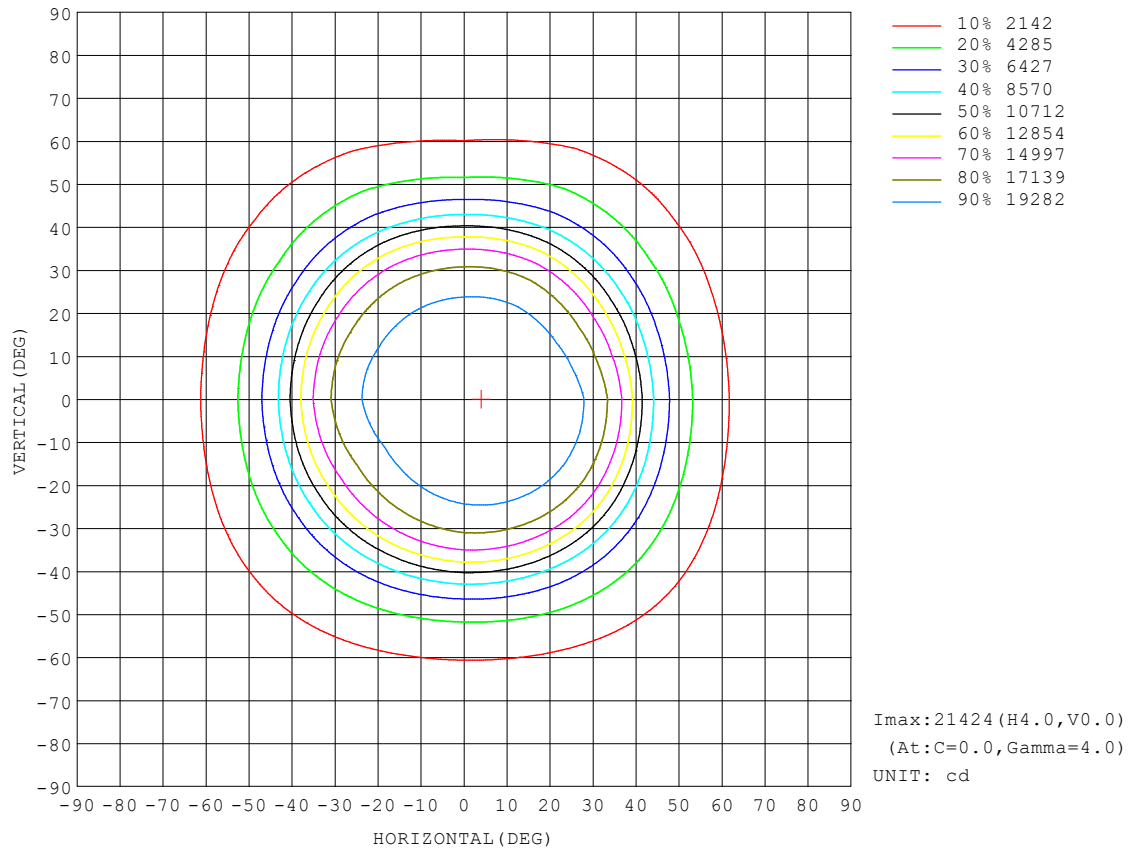
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	57	71	63	57	70	62	57	52
0.80	81	73	67	80	72	67	79	71	66	61
1.00	88	80	75	87	80	74	85	80	74	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	95	91	98	93	90	83
2.50	105	100	96	103	98	95	100	96	93	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	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:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

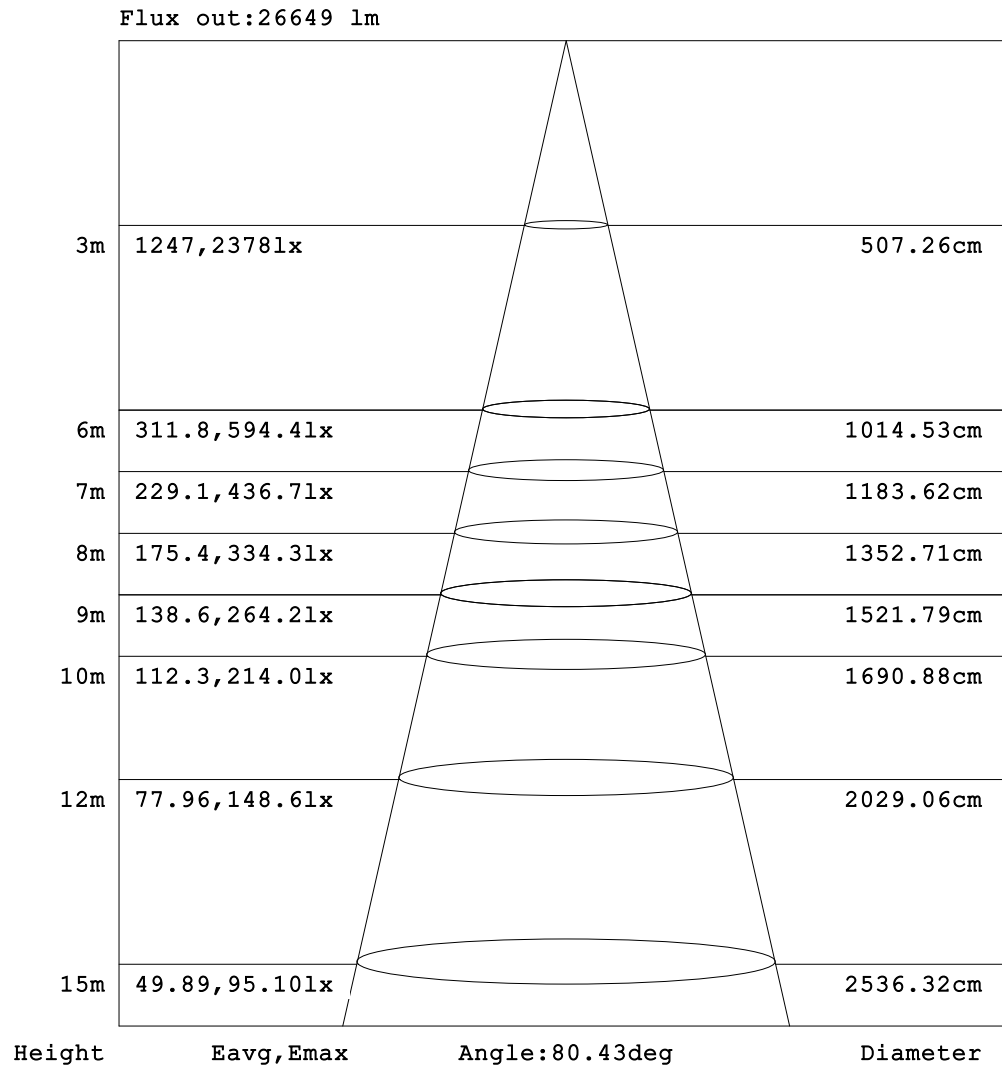


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		



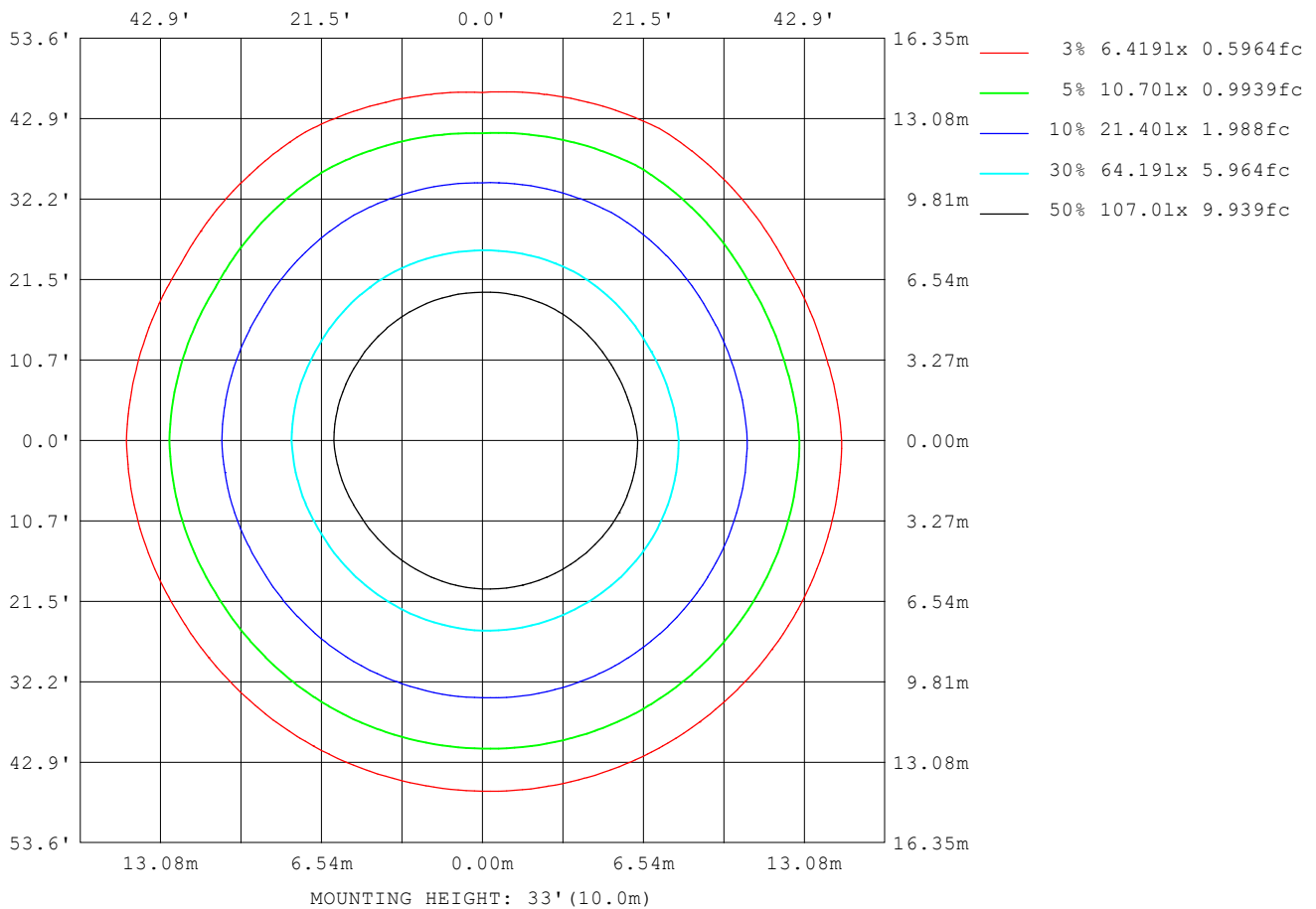
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

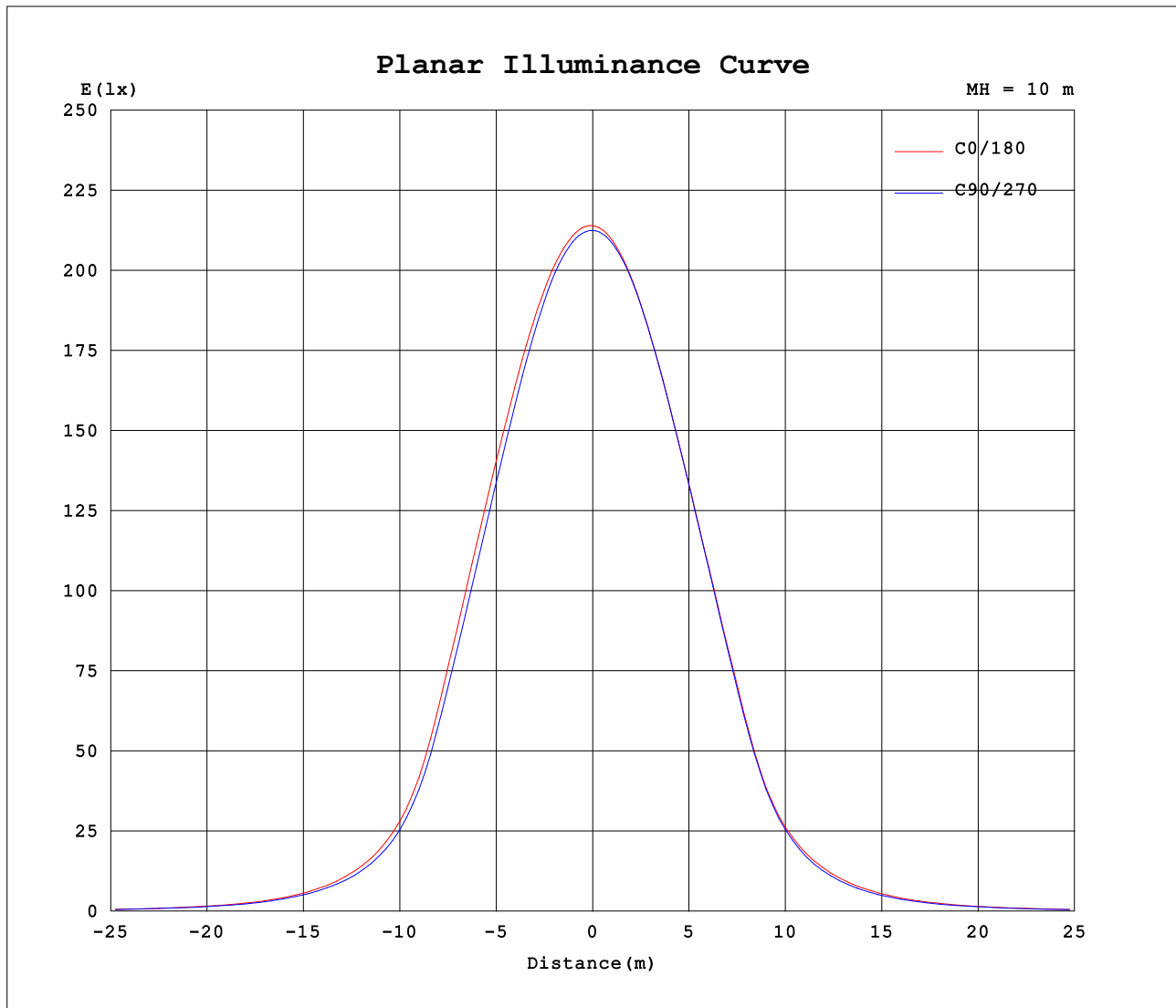
AvgL	cd/m2
L_0~180 (65) av	54895
L_0~180 (75) av	35159
L_0~180 (85) av	16642
L_90~270 (65) av	50456
L_90~270 (75) av	33606
L_90~270 (85) av	16789
L_45 (65) av	52758
L_45 (75) av	34599
L_45 (85) av	16898

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [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: 2025-4-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity: 65.0%
Test Distance: 7.850m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz		
Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

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	2140	2136	2134	2131	2129	2127	2125	2123	2122	2120	2120	2130	2140	2138	2134	2131	2129	2127	2125
5	2142	2139	2136	2134	2131	2128	2124	2120	2116	2112	2111	2120	2130	2128	2123	2122	2121	2120	2120
10	2137	2135	2133	2129	2124	2118	2112	2104	2097	2089	2086	2096	2107	2104	2099	2099	2100	2100	2102
15	2120	2118	2115	2108	2099	2089	2077	2064	2052	2040	2035	2049	2064	2060	2054	2055	2058	2060	2063
20	2077	2076	2071	2060	2046	2030	2013	1994	1977	1962	1957	1976	1997	1994	1985	1986	1990	1993	1999
25	1998	1997	1990	1975	1955	1934	1911	1886	1863	1846	1842	1871	1900	1896	1886	1887	1891	1895	1900
30	1861	1862	1853	1831	1805	1781	1756	1723	1693	1674	1672	1711	1750	1744	1729	1731	1736	1740	1746
35	1619	1621	1610	1583	1551	1526	1500	1463	1430	1412	1414	1460	1505	1495	1475	1479	1487	1489	1493
40	1206	1211	1202	1173	1139	1118	1097	1062	1033	1026	1035	1075	1111	1098	1079	1090	1104	1100	1096
45	797	796	790	777	759	740	722	708	699	693	697	722	745	734	718	724	732	726	723
50	545	540	534	527	518	503	489	483	481	479	483	503	519	502	484	498	512	496	482
55	372	370	367	361	354	345	337	333	332	331	334	348	358	345	332	344	356	340	326
60	248	247	245	240	235	230	226	223	222	220	221	231	238	230	222	231	238	226	216
65	162	162	161	157	154	151	149	147	145	144	145	151	155	150	146	151	156	149	143
70	104	104	104	101	98.8	97.6	96.7	95.3	94.2	93.9	94.5	97.6	100	97.3	94.6	97.7	101	96.7	93.6
75	62.8	63.3	63.0	61.4	59.8	59.6	59.5	58.6	57.9	58.2	59.0	60.4	61.5	60.3	59.3	61.1	62.8	60.8	59.3
80	31.2	32.0	32.1	31.0	29.8	30.0	30.4	29.7	29.2	29.6	30.3	31.5	32.4	31.8	31.3	32.6	33.8	32.6	31.5
85	9.31	9.61	9.59	9.07	8.59	8.93	9.27	8.81	8.34	8.48	8.93	9.77	10.5	10.5	10.4	11.1	11.7	11.2	10.7
90	0.44	0.43	0.43	0.43	0.44	0.43	0.43	0.44	0.45	0.38	0.44	0.96	1.49	1.55	1.48	1.47	1.45	1.44	1.43
95	0.66	0.64	0.64	0.65	0.66	0.64	0.63	0.66	0.68	0.60	0.65	1.22	1.80	1.86	1.78	1.76	1.74	1.73	1.71
100	0.97	0.96	0.96	0.97	0.97	0.96	0.95	0.98	1.01	0.92	0.98	1.59	2.20	2.27	2.18	2.16	2.13	2.11	2.09
105	1.45	1.43	1.42	1.43	1.44	1.42	1.41	1.44	1.48	1.39	1.46	2.10	2.75	2.83	2.73	2.70	2.66	2.63	2.61
110	2.12	2.10	2.09	2.11	2.12	2.10	2.08	2.13	2.17	2.08	2.14	2.84	3.53	3.62	3.51	3.46	3.40	3.36	3.33
115	3.08	3.05	3.04	3.05	3.07	3.05	3.04	3.09	3.13	3.04	3.11	3.85	4.60	4.69	4.57	4.50	4.42	4.37	4.32
120	4.30	4.27	4.26	4.27	4.28	4.27	4.27	4.32	4.37	4.27	4.36	5.16	5.96	6.06	5.92	5.82	5.71	5.65	5.59
125	5.79	5.76	5.75	5.76	5.77	5.77	5.78	5.83	5.88	5.77	5.87	6.73	7.59	7.68	7.53	7.40	7.27	7.19	7.12
130	7.42	7.38	7.37	7.37	7.39	7.39	7.41	7.46	7.51	7.40	7.51	8.43	9.34	9.42	9.25	9.11	8.97	8.87	8.78
135	9.05	9.00	8.98	8.99	9.02	9.01	9.02	9.09	9.16	9.05	9.16	10.1	11.0	11.1	10.9	10.8	10.6	10.5	10.4
140	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.8	10.7	10.8	11.7	12.6	12.7	12.5	12.3	12.2	12.1	12.0
145	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.2	12.3	12.2	12.3	13.2	14.1	14.1	13.9	13.8	13.6	13.5	13.4
150	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.6	13.6	13.6	13.7	14.6	15.4	15.4	15.2	15.0	14.9	14.8	14.7
155	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.8	14.9	14.8	15.0	15.7	16.4	16.4	16.2	16.1	16.0	15.9	15.7
160	16.0	16.0	16.0	16.0	16.0	16.0	16.1	16.1	16.2	16.1	16.2	16.8	17.5	17.4	17.2	17.1	17.0	16.9	16.7
165	17.5	17.5	17.5	17.5	17.5	17.5	17.6	17.6	17.6	17.5	17.6	18.2	18.7	18.6	18.4	18.3	18.2	18.0	17.9
170	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.8	18.9	19.4	19.8	19.8	19.6	19.4	19.3	19.2	19.1
175	20.2	20.2	20.2	20.2	20.1	20.1	20.1	20.0	20.0	19.9	20.0	20.3	20.7	20.6	20.5	20.4	20.3	20.2	20.0
180	21.0	21.0	21.0	20.9	20.8	20.7	20.7	20.6	20.5	20.4	20.4	20.8	21.1	21.1	20.9	20.9	20.9	20.7	20.6

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.97V I:2.0010A P:241.60W PF:0.9981 Freq:49.97Hz Lamp Flux:37645.9x1 lm		
NAME: ASD-UHB2A-ST-240BK	TYPE: UHB2A ST	
SPEC.: 240W 5000K		
MFR.: ASD LIGHTING CORP		

Table--2

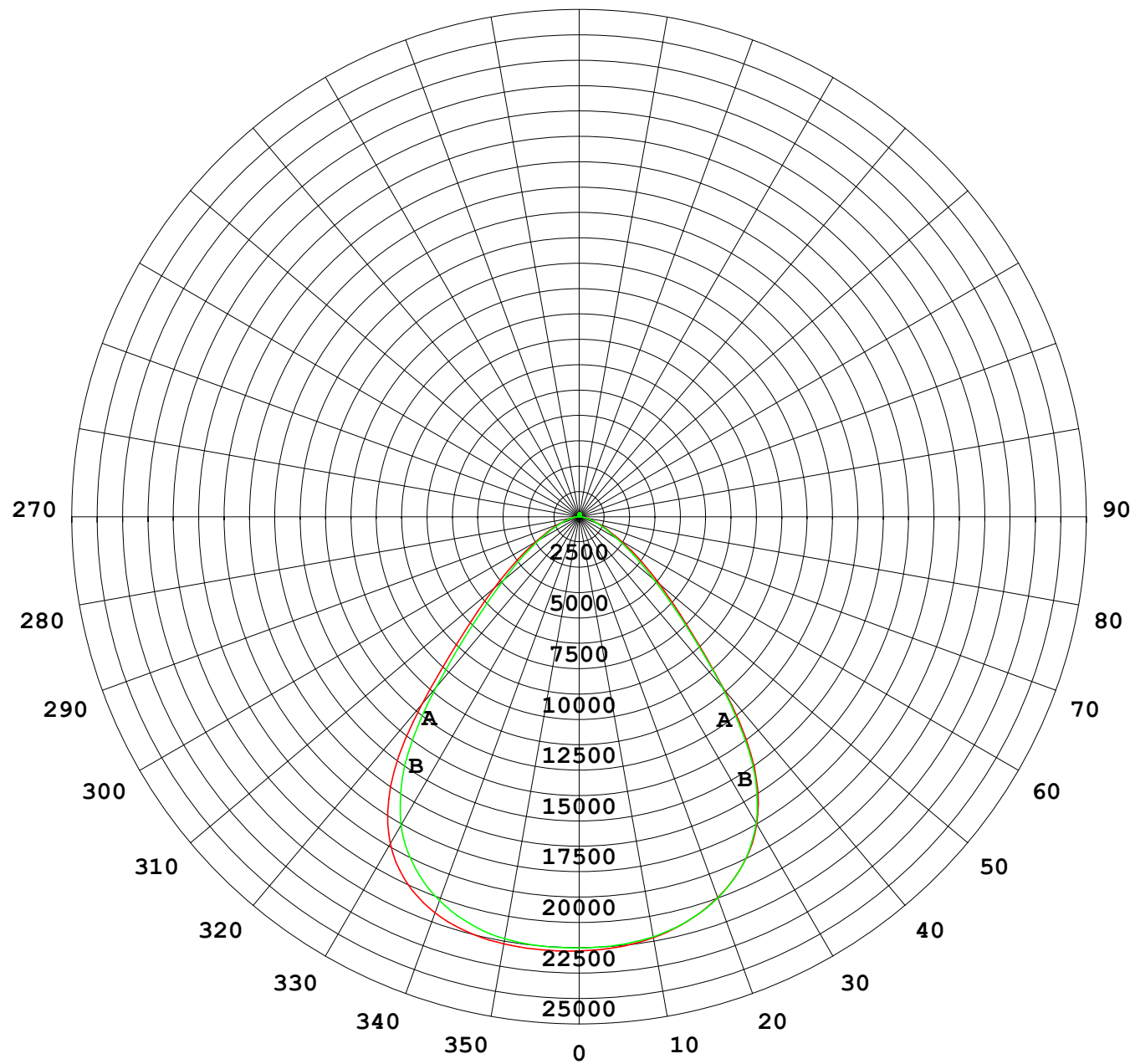
UNIT: X10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2123	2122	2120	2120	2127														
5	2120	2121	2120	2121	2129														
10	2105	2109	2110	2113	2122														
15	2069	2076	2079	2085	2099														
20	2007	2015	2019	2026	2047														
25	1911	1921	1922	1928	1956														
30	1759	1770	1764	1767	1802														
35	1509	1522	1510	1508	1548														
40	1113	1129	1114	1107	1142														
45	740	758	750	744	762														
50	505	529	515	501	514														
55	347	369	354	338	347														
60	233	249	238	225	231														
65	153	163	157	149	152														
70	100.0	106	102	97.8	99.1														
75	62.7	66.0	64.0	61.4	61.4														
80	33.3	35.0	34.0	32.3	31.6														
85	11.4	12.1	11.6	10.7	10.0														
90	1.42	1.40	1.46	1.40	1.04														
95	1.70	1.69	1.75	1.68	1.29														
100	2.08	2.06	2.12	2.06	1.65														
105	2.58	2.57	2.63	2.56	2.14														
110	3.29	3.26	3.33	3.27	2.84														
115	4.26	4.20	4.27	4.21	3.79														
120	5.50	5.42	5.48	5.42	5.00														
125	7.00	6.90	6.95	6.88	6.47														
130	8.65	8.53	8.55	8.48	8.07														
135	10.3	10.1	10.1	10.1	9.67														
140	11.8	11.7	11.7	11.6	11.2														
145	13.3	13.1	13.1	13.0	12.7														
150	14.6	14.4	14.4	14.3	14.0														
155	15.6	15.5	15.5	15.4	15.1														
160	16.6	16.6	16.5	16.4	16.3														
165	17.8	17.7	17.7	17.6	17.6														
170	19.0	18.9	18.8	18.8	18.8														
175	20.0	19.9	19.8	19.8	19.9														
180	20.6	20.6	20.4	20.4	20.6														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

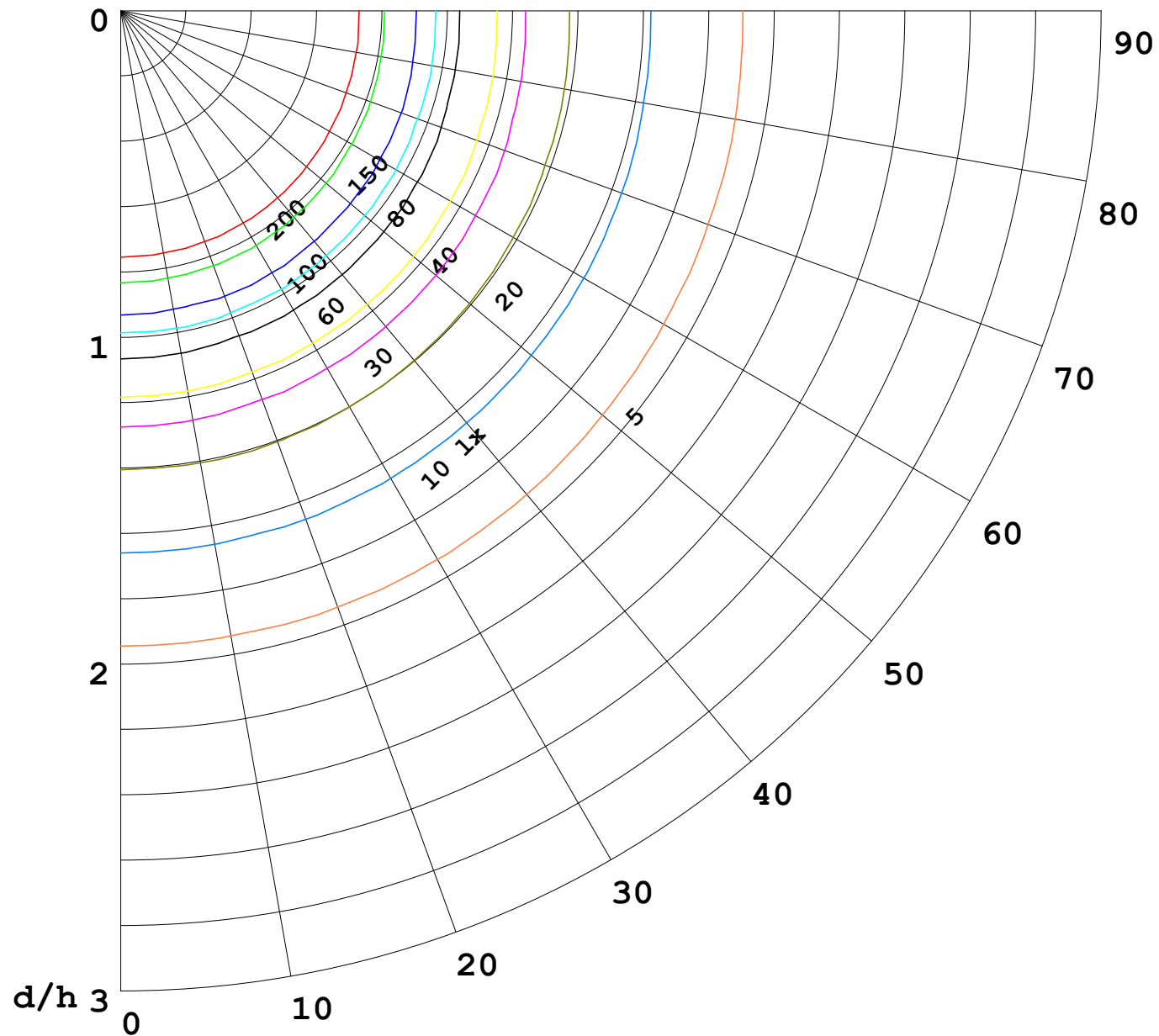
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

I (cd)



1000 lm

$\kappa = 1$



F = 5000 lm
 K = 0.7
 Hcc = 0.0 m
 Hfc = 0.0 m
 Eave = 100 lx

	Pcc	Pw	Pfc
—	70	50	30
—	50	30	20

