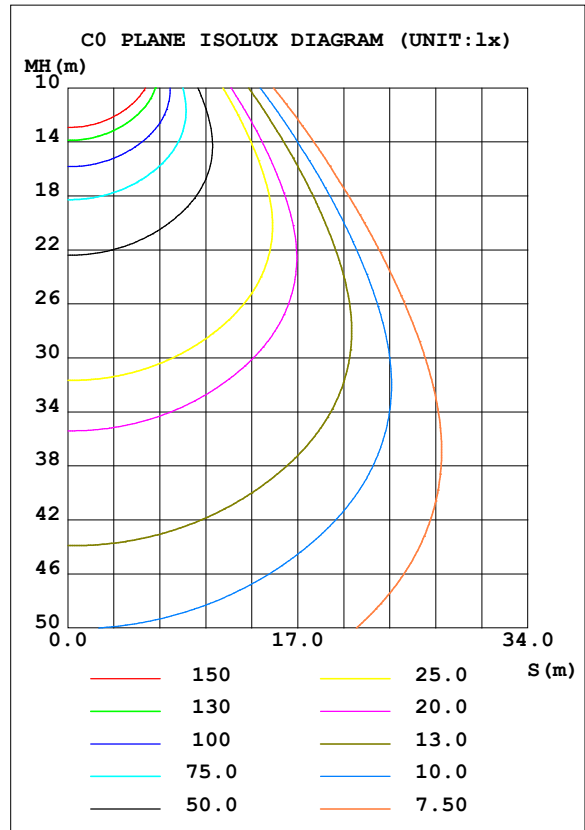
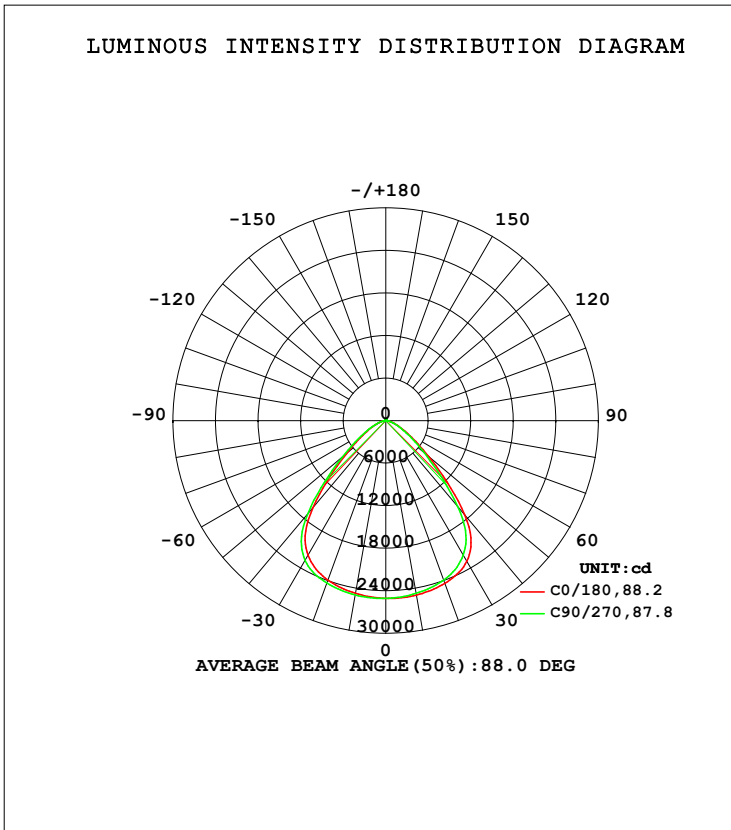


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA Eff: 186.20 lm/W			
MODEL	ASD-UHB5-PRO-300BK	I _{max} (cd)	25099	S/MH (C0/180)	1.24
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	49914	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.9
NOMINAL FLUX (lm)	49914	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 50.1
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	2498	2482	2473	2470	2472	2485	2496	2503	0- 10	2382	2382	4.77,4.77
20	2440	2408	2393	2388	2393	2418	2436	2452	10- 20	6949	9331	18.7,18.7
30	2290	2213	2188	2183	2193	2245	2278	2302	20- 30	10820	20151	40.4,40.4
40	1731	1609	1574	1582	1597	1702	1708	1738	30- 40	12511	32661	65.4,65.4
50	792.4	726.4	715.7	724.0	730.0	786.5	799.4	793.8	40- 50	9011	41672	83.5,83.5
60	338.6	312.0	314.4	315.3	317.4	338.2	341.9	338.9	50- 60	4568	46240	92.6,92.6
70	137.5	126.5	129.5	129.2	128.6	139.7	138.4	136.2	60- 70	2150	48390	96.9,96.9
80	40.93	36.89	37.93	39.17	37.85	42.23	40.39	37.85	70- 80	850.9	49241	98.7,98.7
90	2.862	2.675	2.053	2.698	2.733	2.513	1.940	2.452	80- 90	164.1	49405	99,99
100	2.519	2.976	2.651	2.933	2.508	2.713	2.342	2.633	90-100	27.24	49432	99,99
110	4.211	4.439	4.477	4.493	4.397	4.131	4.094	4.103	100-110	35.34	49468	99.1,99.1
120	6.567	6.812	6.903	6.918	7.090	6.714	6.649	6.617	110-120	54.38	49522	99.2,99.2
130	9.170	9.469	9.571	9.588	10.30	9.807	9.784	9.678	120-130	73.37	49595	99.4,99.4
140	11.67	11.98	12.08	12.10	13.26	12.80	12.86	12.66	130-140	85.61	49681	99.5,99.5
150	14.07	14.37	14.44	14.46	15.71	15.32	15.40	15.26	140-150	85.46	49767	99.7,99.7
160	16.95	17.08	17.29	17.14	18.45	18.07	18.18	18.05	150-160	74.75	49841	99.9,99.9
170	19.75	19.73	19.95	19.79	20.78	20.46	20.64	20.46	160-170	53.45	49895	100,100
180	21.49	21.29	21.58	21.38	21.50	21.30	21.58	21.38	170-180	19.83	49915	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 37855 lm

%lum = 75.8%

%lamp = 75.8%

Conical surface Flux(120deg): 46240 lm

%lum = 92.6%

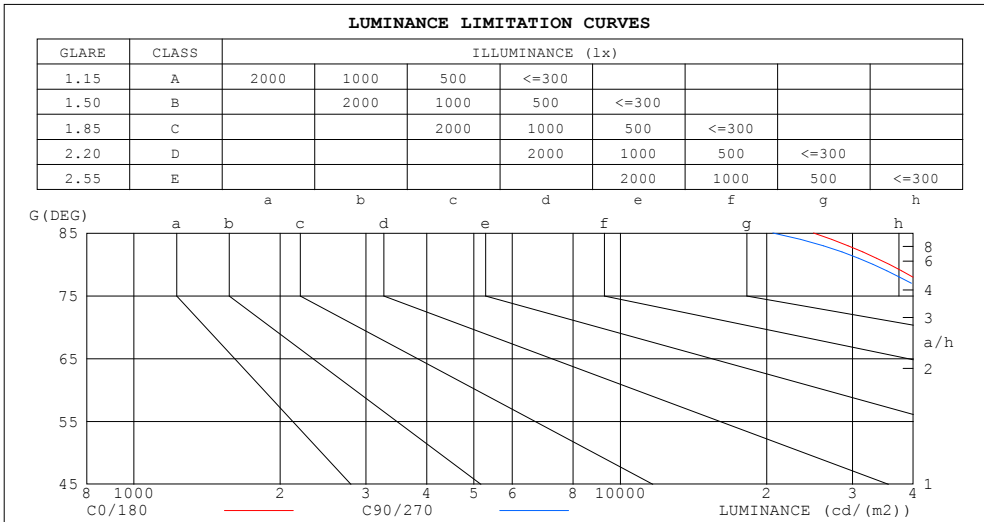
%lamp = 92.6%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-06

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.234	.133	.042	.227	.129	.041	.213	.122	.039	.201	.116	.037	.189	.110	.035	
2.0	.227	.124	.038	.221	.122	.037	.209	.116	.036	.198	.111	.035	.188	.107	.034	
3.0	.216	.115	.034	.210	.113	.034	.200	.109	.033	.191	.105	.032	.182	.101	.031	
4.0	.204	.106	.031	.200	.104	.031	.191	.101	.030	.182	.098	.030	.174	.095	.029	
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.173	.091	.027	.166	.089	.027	
6.0	.182	.091	.026	.179	.090	.026	.171	.088	.026	.165	.086	.025	.159	.083	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	.151	.079	.023	
8.0	.163	.080	.022	.160	.079	.022	.155	.077	.022	.149	.076	.022	.144	.074	.022	
9.0	.155	.075	.021	.152	.074	.021	.147	.073	.021	.142	.071	.020	.137	.070	.020	
10.0	.147	.071	.020	.145	.070	.019	.140	.069	.019	.136	.067	.019	.131	.066	.019	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.183	.165	.148	.156	.141	.128	.107	.097	.088	.062	.056	.051	.020	.018	.017	
2.0	.171	.140	.114	.147	.121	.098	.101	.083	.069	.058	.049	.040	.019	.016	.013	
3.0	.162	.122	.090	.139	.105	.078	.095	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.154	.108	.073	.132	.093	.063	.091	.065	.045	.052	.038	.026	.017	.012	.009	
5.0	.146	.097	.061	.126	.084	.053	.087	.059	.037	.050	.034	.022	.016	.011	.007	
6.0	.140	.088	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
7.0	.134	.081	.045	.115	.071	.039	.079	.049	.028	.046	.029	.016	.015	.010	.005	
8.0	.128	.076	.040	.110	.066	.035	.076	.046	.024	.044	.027	.015	.014	.009	.005	
9.0	.122	.071	.036	.106	.061	.031	.073	.043	.022	.043	.025	.013	.014	.008	.004	
10.0	.118	.066	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
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	29.3	30.5	29.5	30.7	30.9	28.9	30.2	29.2	30.4	30.6
3H	29.5	30.6	29.8	30.9	31.1	29.1	30.3	29.4	30.5	30.8
4H	29.5	30.6	29.8	30.9	31.1	29.2	30.3	29.5	30.5	30.8
6H	29.5	30.5	29.9	30.8	31.1	29.2	30.2	29.5	30.5	30.8
8H	29.5	30.5	29.8	30.8	31.1	29.2	30.1	29.5	30.4	30.7
12H	29.5	30.4	29.8	30.7	31.0	29.1	30.1	29.5	30.4	30.7
4H 2H	29.3	30.4	29.6	30.6	30.9	29.0	30.0	29.3	30.3	30.6
3H	29.6	30.5	29.9	30.8	31.1	29.3	30.2	29.6	30.5	30.8
4H	29.7	30.5	30.1	30.9	31.2	29.4	30.2	29.8	30.6	30.9
6H	29.7	30.5	30.1	30.8	31.2	29.4	30.2	29.8	30.5	30.9
8H	29.7	30.4	30.2	30.8	31.2	29.4	30.1	29.8	30.5	30.9
12H	29.7	30.3	30.2	30.7	31.2	29.4	30.0	29.8	30.4	30.8
8H 4H	29.7	30.3	30.1	30.7	31.1	29.4	30.0	29.8	30.4	30.8
6H	29.7	30.3	30.2	30.7	31.2	29.4	30.0	29.9	30.4	30.9
8H	29.8	30.3	30.2	30.7	31.2	29.5	30.0	29.9	30.4	30.9
12H	29.8	30.2	30.2	30.6	31.1	29.4	29.9	29.9	30.3	30.8
12H 4H	29.6	30.2	30.0	30.6	31.1	29.3	29.9	29.8	30.3	30.8
6H	29.7	30.2	30.2	30.6	31.1	29.4	29.9	29.9	30.3	30.8
8H	29.7	30.2	30.2	30.6	31.1	29.4	29.9	29.9	30.3	30.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.7					+ 1.2 / - 1.8				
1.5H	+ 1.4 / - 1.4					+ 1.4 / - 1.3				
2.0H	+ 2.8 / - 2.1					+ 2.4 / - 2.0				

CIE Pub.117, 49915 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 13.6)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

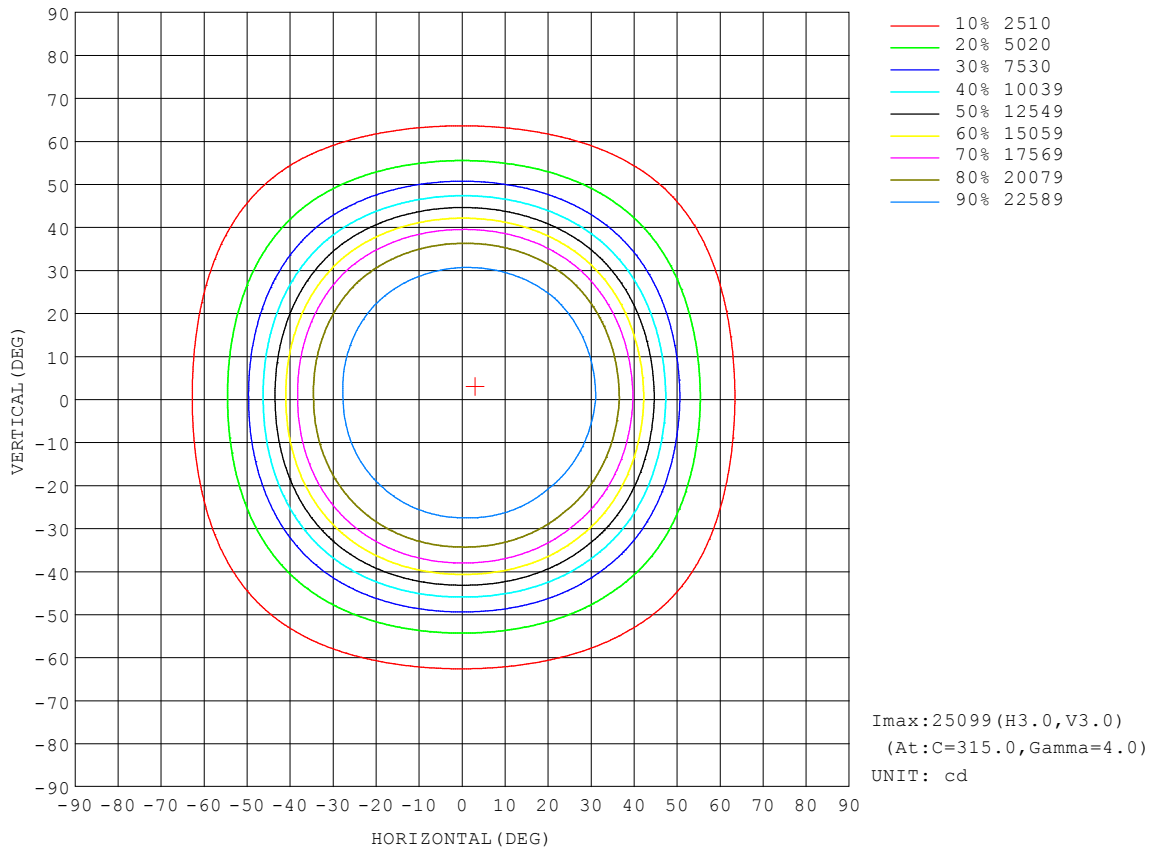
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	60	55	69	60	55	68	60	54	49
0.80	79	70	65	78	70	64	77	69	64	58
1.00	87	78	73	86	78	73	84	78	72	66
1.25	93	85	80	92	84	79	89	83	79	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

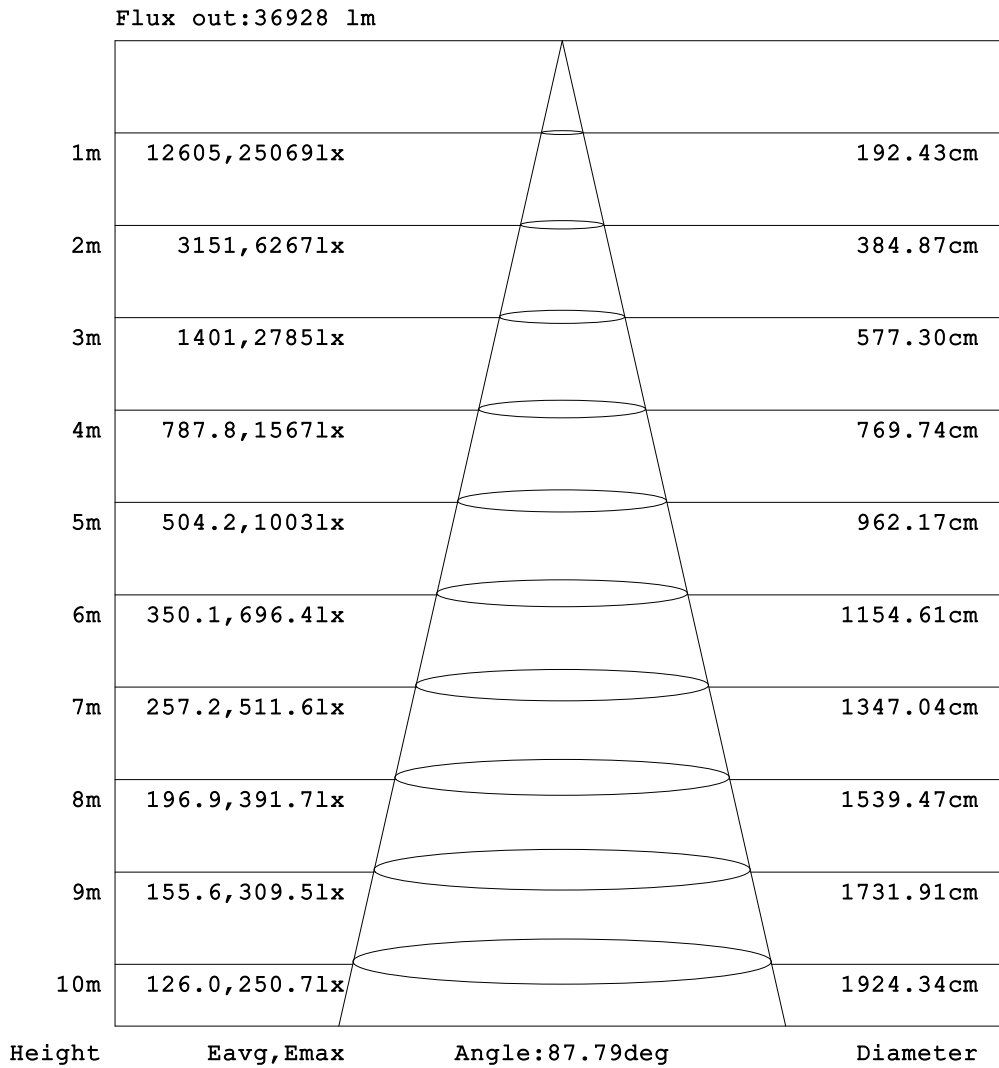


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

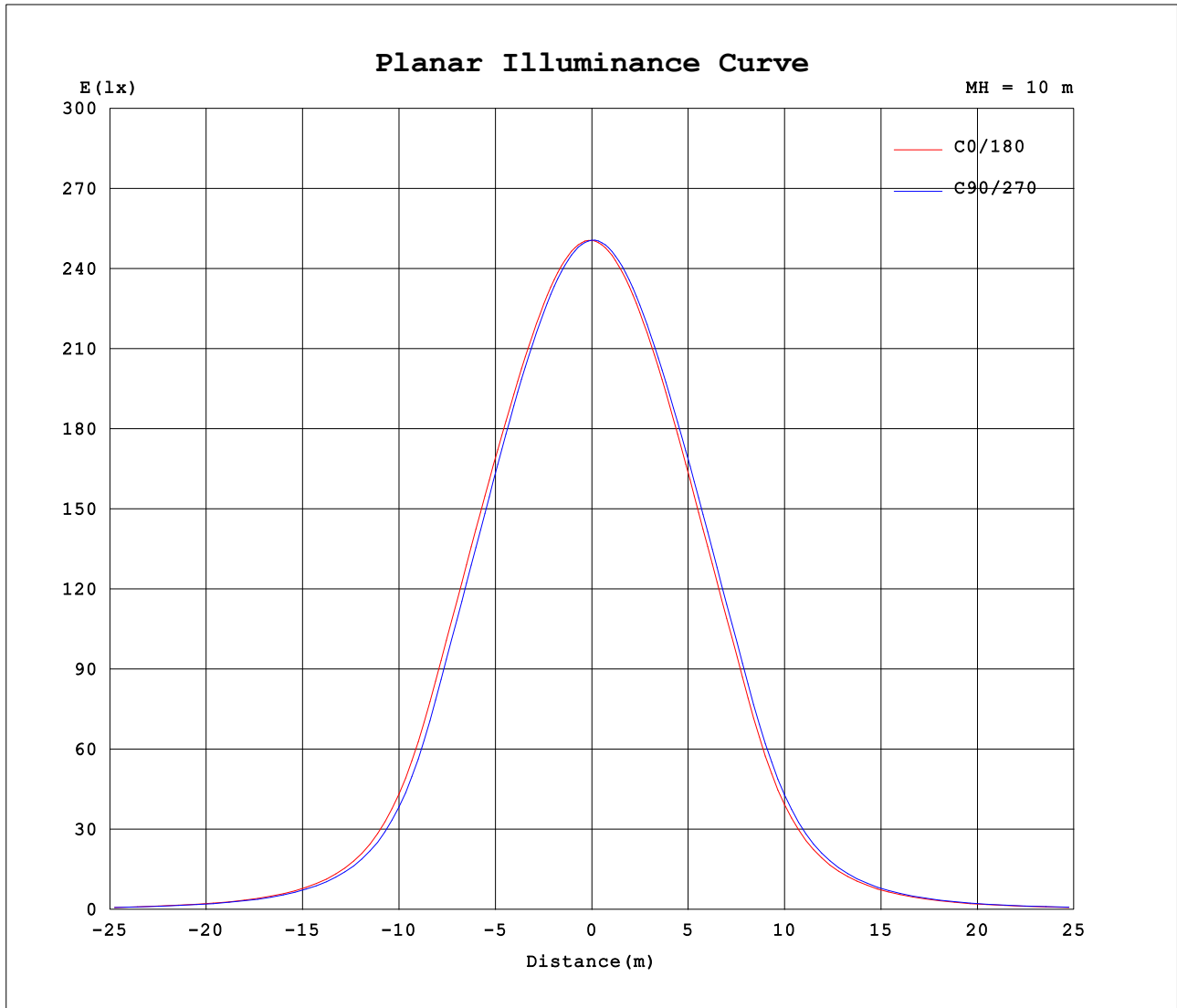


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-06

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:2.233A P:268.1W PF:0.9961 Freq:59.98Hz Lamp Flux:49914.5x1 lm
NAME: ASD-UHB5-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	2506	2506	2506	2507	2506	2506	2506	2507										
5	2507	2499	2495	2493	2494	2501	2507	2510										
10	2498	2482	2473	2470	2472	2485	2496	2503										
15	2476	2451	2440	2437	2440	2457	2473	2484										
20	2440	2408	2393	2388	2393	2418	2436	2452										
25	2387	2341	2317	2311	2318	2358	2382	2400										
30	2290	2213	2188	2183	2193	2245	2278	2302										
35	2099	1998	1972	1970	1984	2052	2079	2112										
40	1731	1609	1574	1582	1597	1702	1708	1738										
45	1224	1117	1087	1103	1112	1196	1214	1219										
50	792	726	716	724	730	786	799	794										
55	519	477	475	478	482	514	523	518										
60	339	312	314	315	317	338	342	339										
65	218	202	205	206	206	220	221	218										
70	138	127	130	129	129	140	138	136										
75	80.5	73.8	76.2	76.4	75.4	82.8	80.6	78.4										
80	40.9	36.9	37.9	39.2	37.9	42.2	40.4	37.8										
85	14.4	11.5	11.8	12.9	11.8	14.4	10.5	10.2										
90	2.86	2.67	2.05	2.70	2.73	2.51	1.94	2.45										
95	2.46	2.75	2.30	2.76	2.66	2.46	1.95	2.39										
100	2.52	2.98	2.65	2.93	2.51	2.71	2.34	2.63										
105	3.22	3.41	3.43	3.45	3.32	3.15	3.08	3.11										
110	4.21	4.44	4.48	4.49	4.40	4.13	4.09	4.10										
115	5.33	5.57	5.64	5.66	5.66	5.34	5.29	5.28										
120	6.57	6.81	6.90	6.92	7.09	6.71	6.65	6.62										
125	7.86	8.10	8.23	8.23	8.65	8.22	8.16	8.10										
130	9.17	9.47	9.57	9.59	10.3	9.81	9.78	9.68										
135	10.5	10.8	10.9	10.9	11.9	11.4	11.4	11.3										
140	11.7	12.0	12.1	12.1	13.3	12.8	12.9	12.7										
145	12.8	13.2	13.2	13.3	14.5	14.1	14.1	14.0										
150	14.1	14.4	14.4	14.5	15.7	15.3	15.4	15.3										
155	15.4	15.7	15.8	15.7	17.0	16.7	16.7	16.6										
160	16.9	17.1	17.3	17.1	18.4	18.1	18.2	18.1										
165	18.4	18.5	18.7	18.5	19.8	19.4	19.5	19.4										
170	19.8	19.7	20.0	19.8	20.8	20.5	20.6	20.5										
175	20.9	20.8	21.0	20.9	21.4	21.1	21.4	21.2										
180	21.5	21.3	21.6	21.4	21.5	21.3	21.6	21.4										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-06

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks: