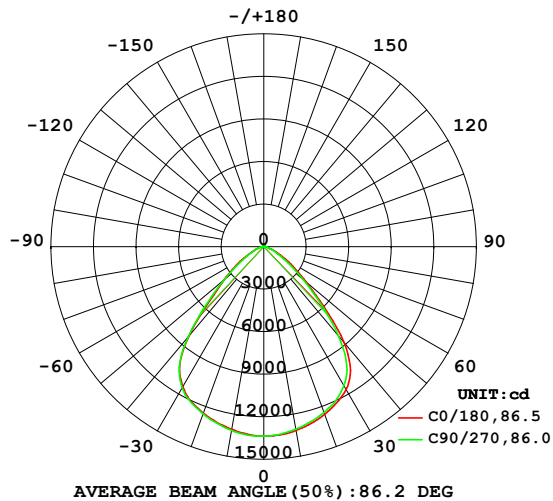


LUMINAIRE PHOTOMETRIC TEST REPORT

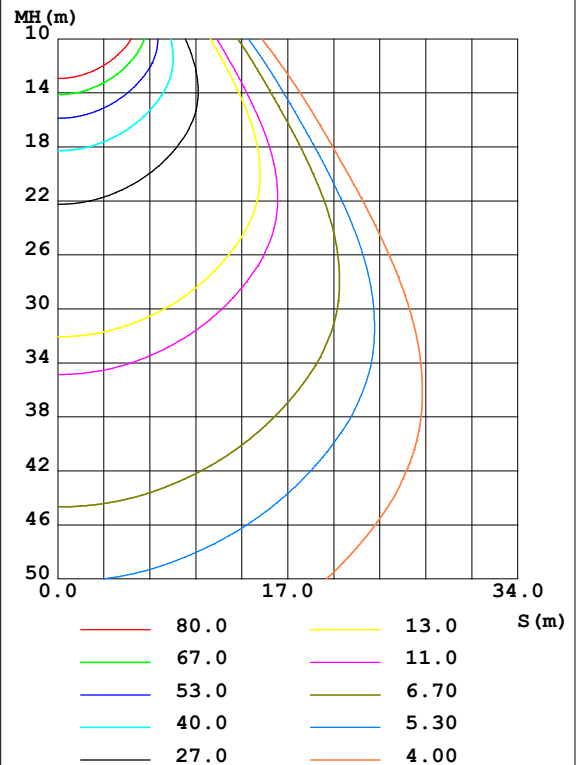
Test:U:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm		
NAME: ASD-UHB5-HV-PRO-150BK		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 176.23 lm/W			
MODEL	ASD-UHB5-HV-PRO-150BK	I _{max} (cd)	13375	S/MH (C0/180)	1.23
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	25226	□ UP, DN (C0-180)	0.5, 49.3
NOMINAL FLUX (lm)	25842	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.6, 49.6
LAMPS INSIDE	1	□ up (%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	277	□ down (%)	98.9	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 27DEG
Operators: lianghaizhu
Test Date: 2023-11-13

□ 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:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1316	1306	1306	1306	1308	1314	1316	1319	0- 10	1264	1264	5.01,5.01
20	1259	1244	1244	1246	1249	1254	1255	1260	10- 20	3631	4894	19.4,19.4
30	1163	1133	1131	1137	1142	1151	1151	1161	20- 30	5566	10460	41.5,41.5
40	879.1	809.4	821.1	827.5	820.3	843.0	831.0	870.8	30- 40	6392	16853	66.8,66.8
50	392.3	359.5	364.7	342.5	368.0	374.8	366.6	358.6	40- 50	4428	21281	84.4,84.4
60	174.5	165.6	141.0	146.2	160.7	172.0	142.6	147.7	50- 60	2204	23484	93.1,93.1
70	64.01	61.82	54.54	55.51	59.10	63.81	56.09	55.83	60- 70	991.9	24476	97,97
80	20.34	19.63	19.81	19.12	18.77	20.85	18.98	19.60	70- 80	385.2	24861	98.6,98.6
90	0.8369	1.218	0.7707	1.175	1.210	1.258	0.8260	1.235	80- 90	92.05	24954	98.9,98.9
100	1.168	1.315	1.219	1.281	1.624	1.586	1.553	1.579	90-100	12.61	24966	99,99
110	2.101	2.191	2.171	2.197	2.882	2.736	2.759	2.736	100-110	20.15	24986	99.1,99.1
120	3.310	3.421	3.411	3.436	4.220	4.056	4.092	4.063	110-120	30.66	25017	99.2,99.2
130	4.675	4.789	4.795	4.817	5.722	5.527	5.590	5.532	120-130	39.86	25057	99.3,99.3
140	6.028	6.131	6.146	6.148	7.233	7.019	7.109	7.008	130-140	45.54	25102	99.5,99.5
150	7.271	7.404	7.385	7.392	8.548	8.363	8.457	8.374	140-150	45.42	25148	99.7,99.7
160	8.722	8.799	8.822	8.778	9.911	9.714	9.821	9.722	150-160	39.51	25187	99.8,99.8
170	10.28	10.26	10.35	10.28	11.08	10.88	11.03	10.91	160-170	28.09	25215	100,100
180	11.42	11.31	11.44	11.36	11.43	11.31	11.44	11.36	170-180	10.47	25226	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 19440 lm

%lum = 77.1%

%lamp = 77.1%

Conical surface Flux(120deg): 23484 lm

%lum = 93.1%

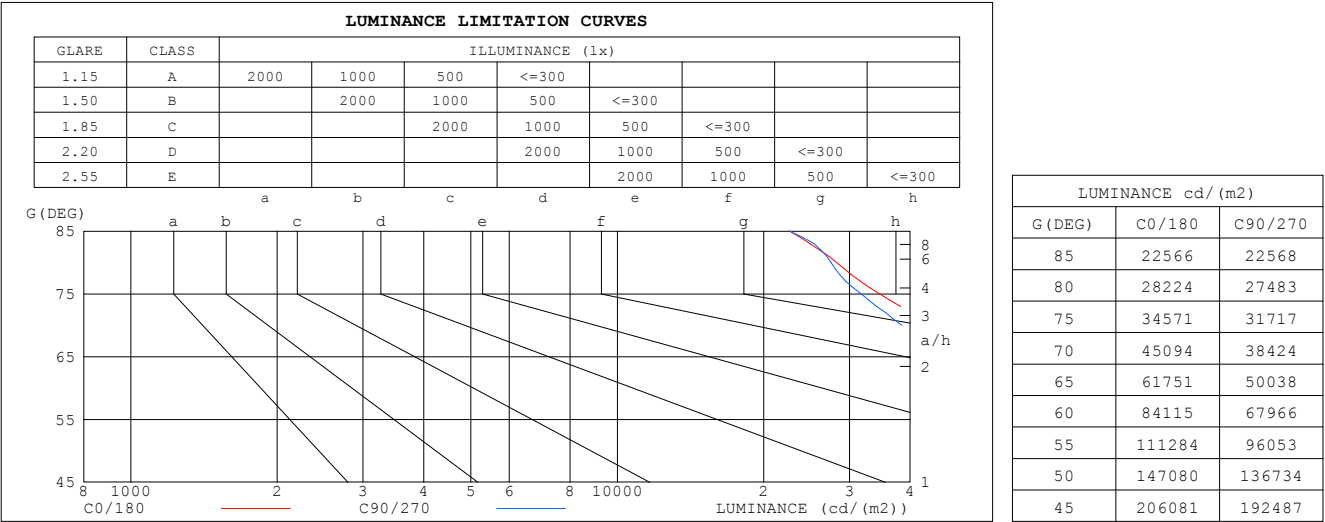
%lamp = 93.1%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-11-13

□ 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:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm		
NAME: ASD-UHB5-HV-PRO-150BK		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-11-13

☐ 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:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm		
NAME: ASD-UHB5-HV-PRO-150BK		
SPEC.: 5000K		
MFR.: ASD Lighting Corp		

☐ cc	80%			70%			50%			30%			10%			0														
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
☐ fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.231	.131	.042	.224	.128	.041	.210	.121	.039	.198	.114	.037	.186	.108	.035															
2.0	.224	.123	.038	.218	.120	.037	.206	.115	.036	.195	.110	.034	.185	.105	.033															
3.0	.213	.113	.034	.208	.111	.033	.198	.107	.033	.188	.103	.032	.179	.099	.031															
4.0	.202	.105	.031	.197	.103	.030	.188	.100	.030	.180	.097	.029	.172	.093	.028															
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.171	.090	.027	.164	.088	.026															
6.0	.180	.090	.026	.177	.089	.026	.170	.087	.025	.163	.085	.025	.157	.082	.024															
7.0	.171	.084	.024	.167	.083	.024	.161	.081	.023	.155	.079	.023	.149	.078	.023															
8.0	.162	.079	.022	.159	.078	.022	.153	.076	.022	.148	.075	.022	.143	.073	.021															
9.0	.154	.074	.021	.151	.073	.021	.146	.072	.020	.141	.071	.020	.136	.069	.020															
10.0	.146	.070	.019	.143	.069	.019	.139	.068	.019	.134	.067	.019	.130	.065	.019															

☐ cc	80%			70%			50%			30%			10%			0
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
☐ 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	.183	.165	.149	.157	.142	.128	.107	.097	.089	.062	.056	.052	.020	.018	.017	
2.0	.172	.141	.115	.147	.121	.099	.101	.084	.069	.058	.049	.040	.019	.016	.013	
3.0	.162	.122	.091	.139	.106	.079	.095	.073	.055	.055	.043	.033	.018	.014	.011	
4.0	.154	.108	.074	.132	.094	.064	.091	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.146	.097	.062	.126	.084	.054	.086	.059	.038	.050	.035	.022	.016	.011	.007	
6.0	.139	.089	.052	.120	.077	.046	.083	.054	.032	.048	.032	.019	.015	.010	.006	
7.0	.133	.082	.046	.115	.071	.040	.079	.050	.028	.046	.029	.017	.015	.010	.006	
8.0	.128	.076	.040	.110	.066	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.122	.071	.036	.105	.062	.032	.073	.043	.022	.043	.026	.013	.014	.008	.004	
10.0	.117	.067	.033	.101	.058	.029	.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:2023-11-13

☐ 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:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm										
NAME: ASD-UHB5-HV-PRO-150BK										
SPEC.: 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	28.5	29.7	28.8	29.9	30.2	28.1	29.3	28.4	29.5	29.8
3H	28.7	29.8	29.0	30.1	30.3	28.2	29.4	28.5	29.6	29.8
4H	28.7	29.8	29.0	30.0	30.3	28.3	29.3	28.6	29.6	29.8
6H	28.7	29.7	29.0	30.0	30.3	28.3	29.3	28.6	29.5	29.8
8H	28.7	29.6	29.0	29.9	30.2	28.2	29.2	28.6	29.5	29.8
12H	28.7	29.6	29.0	29.9	30.2	28.2	29.1	28.6	29.4	29.7
4H 2H	28.5	29.6	28.8	29.8	30.1	28.1	29.2	28.5	29.5	29.7
3H	28.8	29.7	29.1	30.0	30.3	28.4	29.3	28.7	29.6	29.9
4H	28.9	29.7	29.2	30.0	30.4	28.5	29.3	28.8	29.6	30.0
6H	28.9	29.6	29.3	30.0	30.4	28.5	29.2	28.9	29.6	30.0
8H	28.9	29.6	29.3	30.0	30.4	28.5	29.2	28.9	29.6	30.0
12H	28.9	29.5	29.3	29.9	30.3	28.5	29.1	28.9	29.5	29.9
8H 4H	28.8	29.5	29.2	29.9	30.3	28.4	29.1	28.8	29.5	29.9
6H	28.9	29.5	29.4	29.9	30.3	28.5	29.1	29.0	29.5	29.9
8H	28.9	29.4	29.4	29.9	30.3	28.6	29.0	29.0	29.5	29.9
12H	28.9	29.4	29.4	29.8	30.3	28.6	29.0	29.1	29.4	29.9
12H 4H	28.8	29.4	29.2	29.8	30.2	28.4	29.0	28.8	29.4	29.8
6H	28.9	29.4	29.3	29.8	30.3	28.5	29.0	29.0	29.4	29.9
8H	28.9	29.3	29.4	29.8	30.3	28.5	29.0	29.0	29.4	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.2 / - 1.9				
1.5H	+ 1.4 / - 1.2					+ 1.5 / - 1.3				
2.0H	+ 2.6 / - 2.1					+ 2.6 / - 2.1				

CIE Pub.117, 25226 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.2$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-13

☐ 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:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm
NAME: ASD-UHB5-HV-PRO-150BK
SPEC.: 5000K
MFR.: ASD Lighting Corp

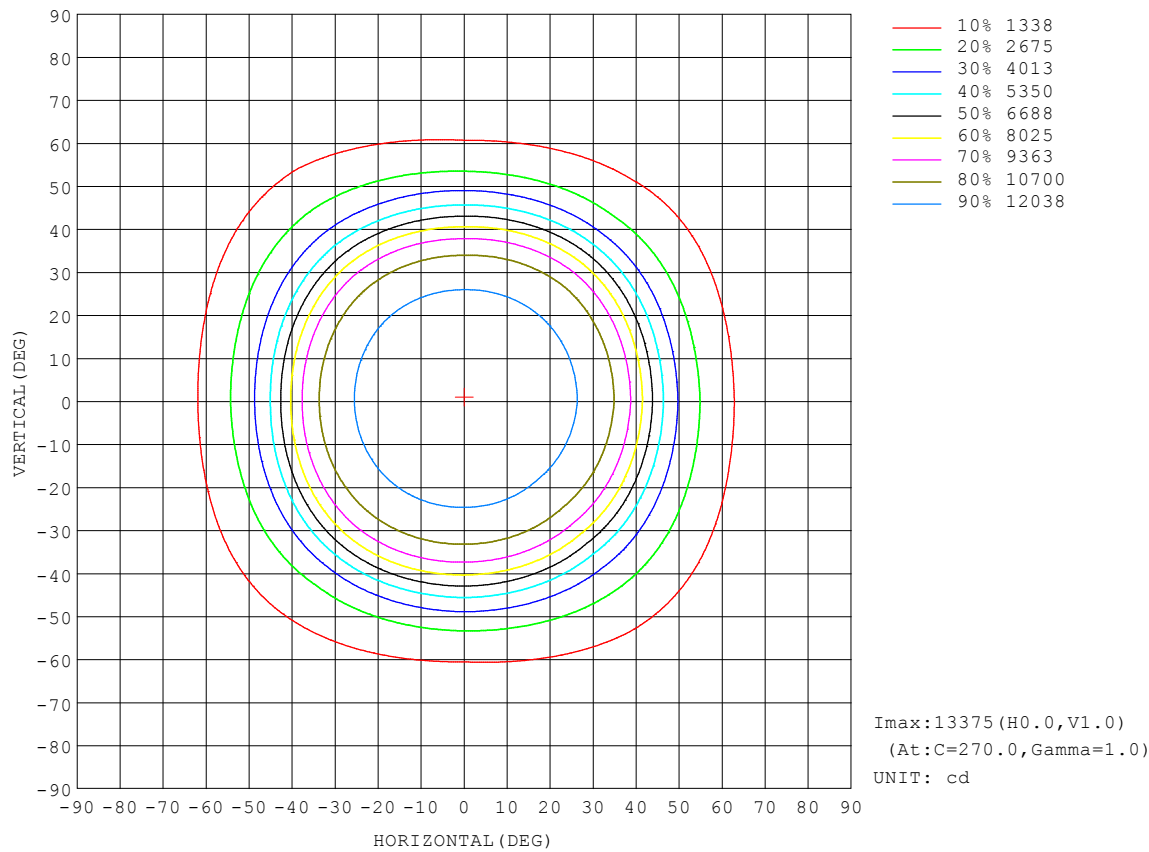
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	71	61	56	70	61	56	69	61	55	50
0.80	80	71	66	79	71	65	78	70	65	60
1.00	88	79	74	86	79	73	84	79	73	67
1.25	93	86	81	92	85	80	90	84	79	74
1.50	97	90	85	96	89	85	93	88	84	78
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	95	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	105	109	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: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-13

☐ 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

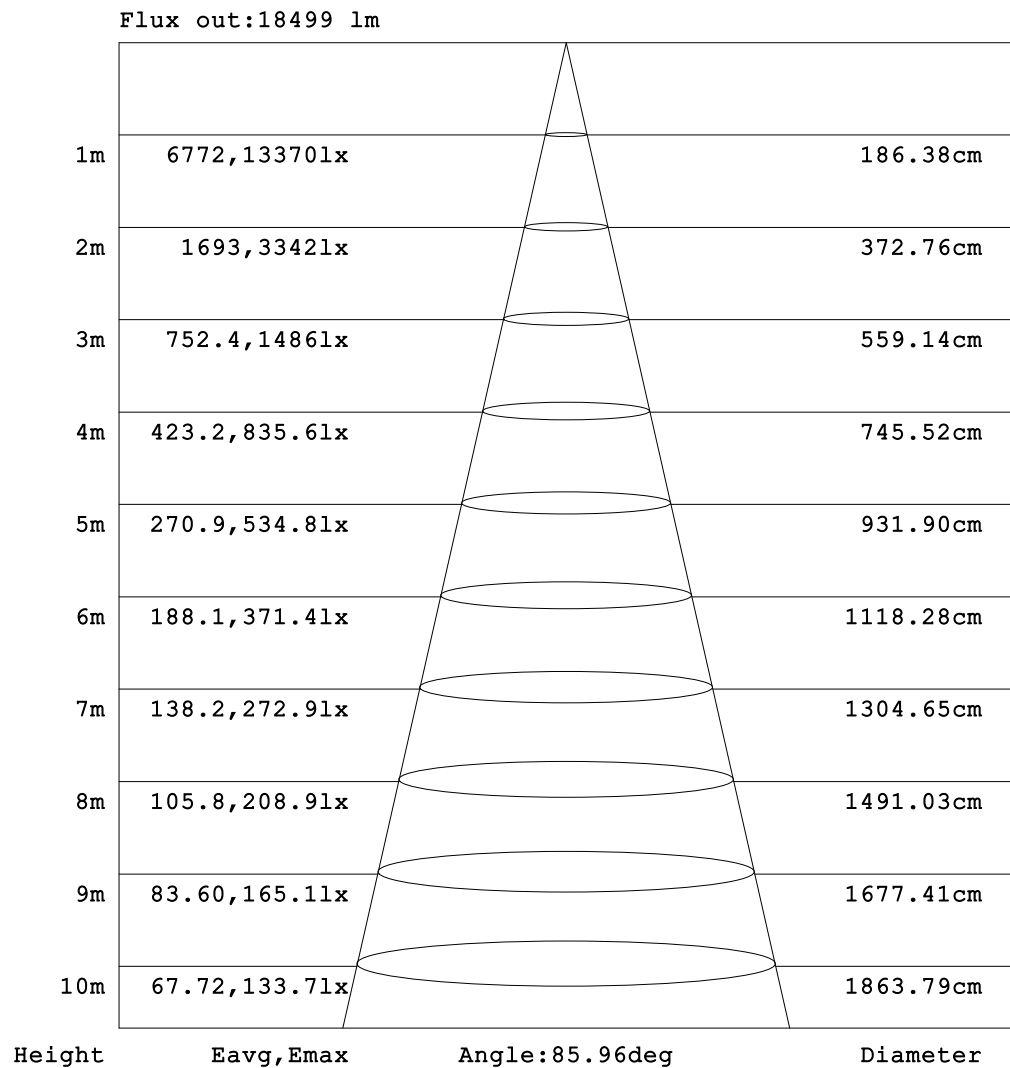
Test:U:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm
NAME: ASD-UHB5-HV-PRO-150BK
SPEC.: 5000K
MFR.: ASD Lighting Corp



C Range: 0 - 360DEG	☐ Range: 0 - 180DEG
C Interval: 45.0DEG	☐ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Temperature:27DEG	Humidity:56%
Operators:lianghaizhu	Test Distance:6.500m [K=1.0000]
Test Date:2023-11-13	Remarks:

AAI Figure

Test:U:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm
NAME: ASD-UHB5-HV-PRO-150BK
SPEC.: 5000K
MFR.: ASD Lighting Corp

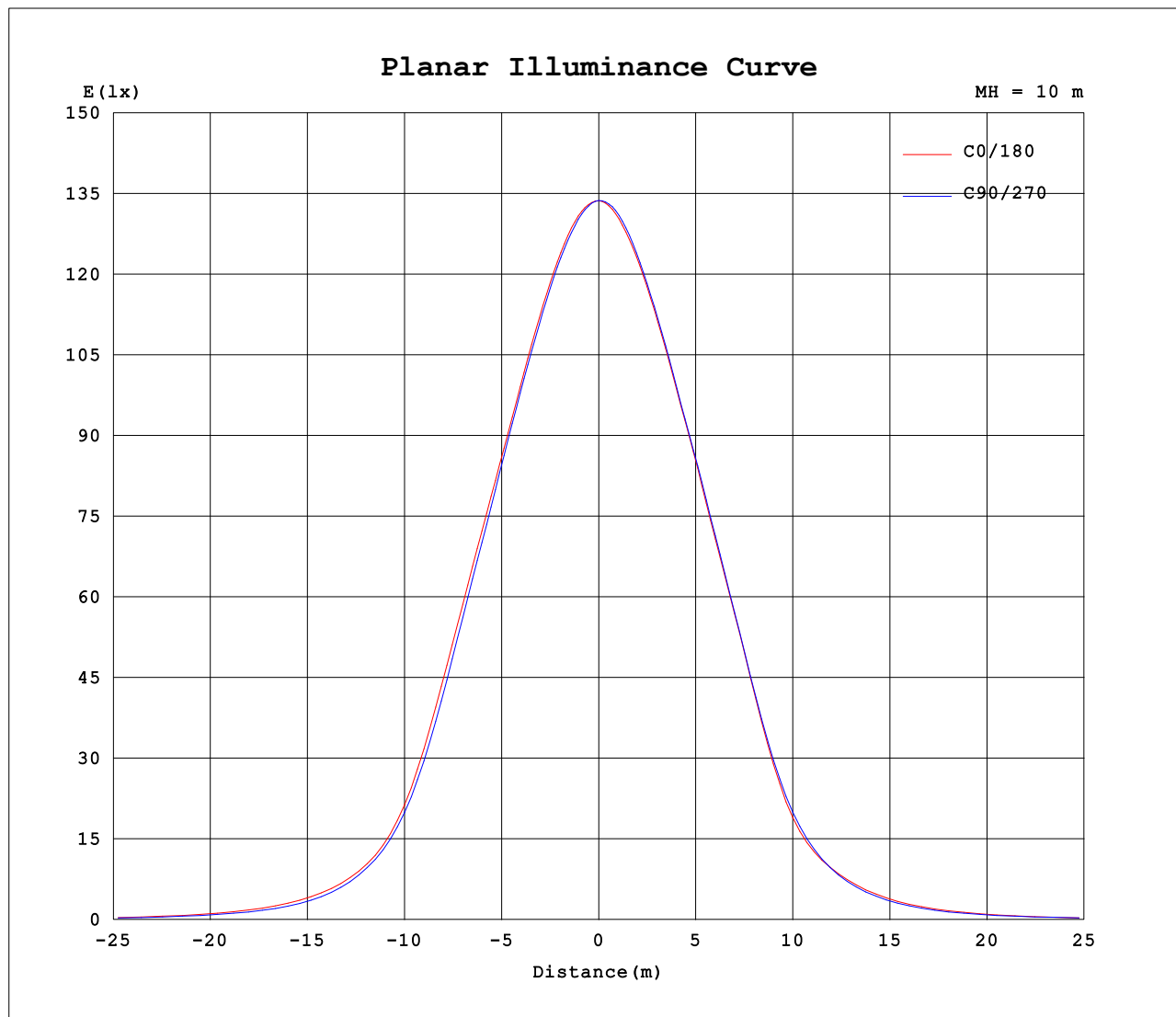


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-13

☐ 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: 2023-11-13

☐ 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:280.9V I:0.5162A P:143.1W PF:0.9870 Freq:59.98Hz Lamp Flux:25225.8x1 lm
NAME: ASD-UHB5-HV-PRO-150BK
SPEC.: 5000K
MFR.: ASD Lighting Corp

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1336	1336	1337	1337	1336	1336	1337	1337										
5	1332	1327	1327	1327	1328	1332	1334	1334										
10	1316	1306	1306	1306	1308	1314	1316	1319										
15	1291	1280	1279	1281	1282	1288	1289	1294										
20	1259	1244	1244	1246	1249	1254	1255	1260										
25	1216	1202	1200	1205	1208	1213	1212	1217										
30	1163	1133	1131	1137	1142	1151	1151	1161										
35	1067	1021	1022	1034	1036	1048	1041	1066										
40	879	809	821	827	820	843	831	871										
45	605	542	565	547	537	568	566	582										
50	392	360	365	343	368	375	367	359										
55	265	249	229	217	253	256	232	224										
60	175	166	141	146	161	172	143	148										
65	108	103	87.8	91.0	98.8	107	88.8	91.4										
70	64.0	61.8	54.5	55.5	59.1	63.8	56.1	55.8										
75	37.1	36.2	34.1	33.2	34.1	37.8	34.6	34.1										
80	20.3	19.6	19.8	19.1	18.8	20.9	19.0	19.6										
85	8.16	7.48	8.16	7.69	6.96	8.36	6.52	7.52										
90	0.84	1.22	0.77	1.17	1.21	1.26	0.83	1.23										
95	0.88	1.17	0.91	1.09	1.19	1.29	1.11	1.30										
100	1.17	1.32	1.22	1.28	1.62	1.59	1.55	1.58										
105	1.59	1.66	1.65	1.66	2.24	2.10	2.13	2.10										
110	2.10	2.19	2.17	2.20	2.88	2.74	2.76	2.74										
115	2.68	2.78	2.76	2.79	3.53	3.38	3.41	3.38										
120	3.31	3.42	3.41	3.44	4.22	4.06	4.09	4.06										
125	3.98	4.10	4.10	4.12	4.95	4.77	4.82	4.78										
130	4.68	4.79	4.80	4.82	5.72	5.53	5.59	5.53										
135	5.37	5.47	5.49	5.49	6.50	6.29	6.36	6.28										
140	6.03	6.13	6.15	6.15	7.23	7.02	7.11	7.01										
145	6.65	6.78	6.77	6.77	7.90	7.71	7.80	7.71										
150	7.27	7.40	7.39	7.39	8.55	8.36	8.46	8.37										
155	7.96	8.06	8.06	8.04	9.22	9.03	9.12	9.05										
160	8.72	8.80	8.82	8.78	9.91	9.71	9.82	9.72										
165	9.51	9.54	9.60	9.53	10.6	10.3	10.5	10.4										
170	10.3	10.3	10.4	10.3	11.1	10.9	11.0	10.9										
175	11.0	10.9	11.0	11.0	11.4	11.2	11.4	11.3										
180	11.4	11.3	11.4	11.4	11.4	11.3	11.4	11.4										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-13

□ 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: