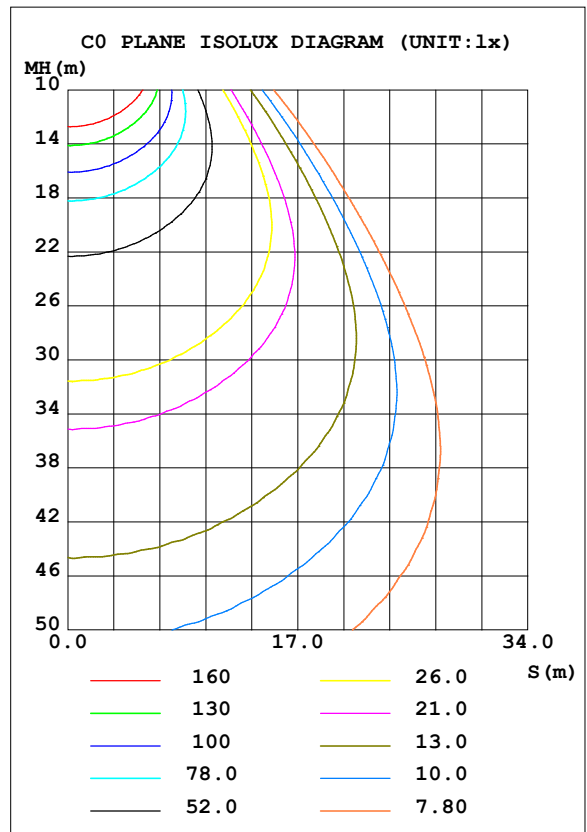
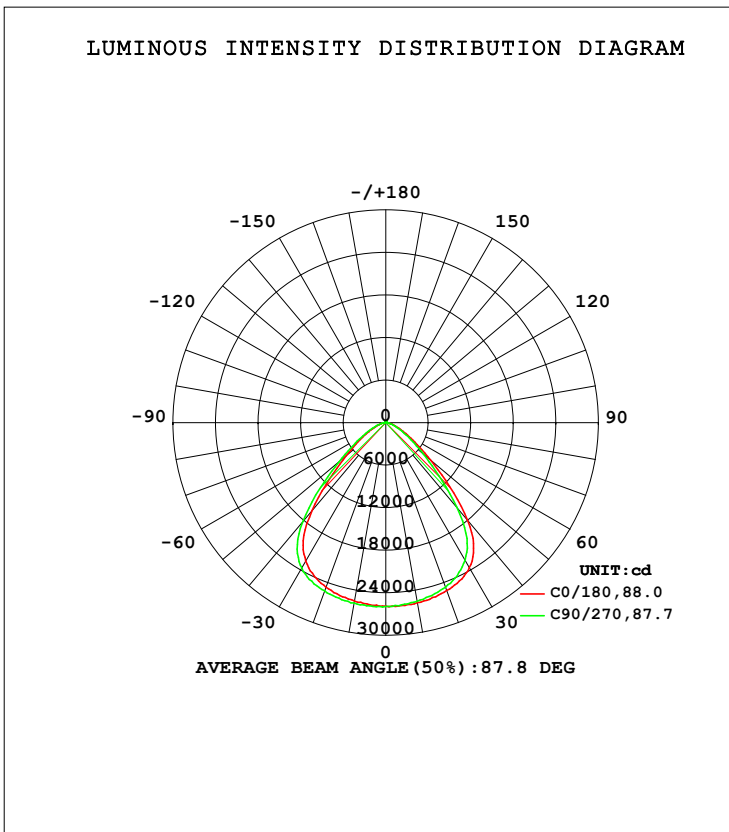


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA Eff: 187.10 lm/W			
MODEL	ASD-UHB5-HV-PRO-300BK	I _{max} (cd)	26044	S/MH (C0/180)	1.23
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	51514	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.2
NOMINAL FLUX (lm)	51514.1	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 50.7
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	277	<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: 2023-11-21

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	2577	2567	2557	2557	2555	2575	2583	2597	0- 10	2465	2465	4.78,4.78
20	2517	2483	2471	2467	2470	2506	2523	2543	10- 20	7187	9651	18.7,18.7
30	2360	2264	2240	2239	2259	2329	2370	2390	20- 30	11172	20823	40.4,40.4
40	1794	1616	1560	1580	1618	1781	1825	1851	30- 40	12883	33705	65.4,65.4
50	830.5	724.4	699.6	708.0	737.2	827.5	870.7	863.8	40- 50	9282	42987	83.4,83.4
60	355.6	311.9	306.9	308.6	320.6	357.7	370.5	367.0	50- 60	4713	47700	92.6,92.6
70	145.2	126.2	125.2	125.0	130.0	148.4	151.1	149.4	60- 70	2220	49920	96.9,96.9
80	44.09	36.43	35.54	36.29	37.70	45.84	45.85	45.05	70- 80	881.1	50801	98.6,98.6
90	2.851	2.852	2.667	2.846	2.808	2.672	1.920	2.647	80- 90	175.3	50976	99,99
100	2.611	3.111	2.829	3.109	2.721	2.936	2.460	2.874	90-100	28.90	51005	99,99
110	4.346	4.724	4.844	4.862	4.741	4.327	4.197	4.196	100-110	37.42	51042	99.1,99.1
120	6.818	7.245	7.442	7.455	7.607	7.008	6.822	6.790	110-120	57.31	51100	99.2,99.2
130	9.566	10.05	10.29	10.31	11.00	10.27	10.10	9.957	120-130	77.37	51177	99.3,99.3
140	12.25	12.71	12.96	12.99	14.06	13.35	13.28	13.06	130-140	90.02	51267	99.5,99.5
150	14.83	15.25	15.52	15.52	16.62	15.95	15.96	15.79	140-150	90.07	51357	99.7,99.7
160	18.01	18.27	18.70	18.50	19.62	18.95	19.05	18.85	150-160	78.92	51436	99.8,99.8
170	21.23	21.28	21.69	21.44	22.16	21.54	21.84	21.51	160-170	56.99	51493	100,100
180	23.02	22.74	23.04	22.82	22.96	22.72	23.07	22.81	170-180	21.19	51514	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 39052 lm

%lum = 75.8%

%lamp = 75.8%

Conical surface Flux(120deg): 47700 lm

%lum = 92.6%

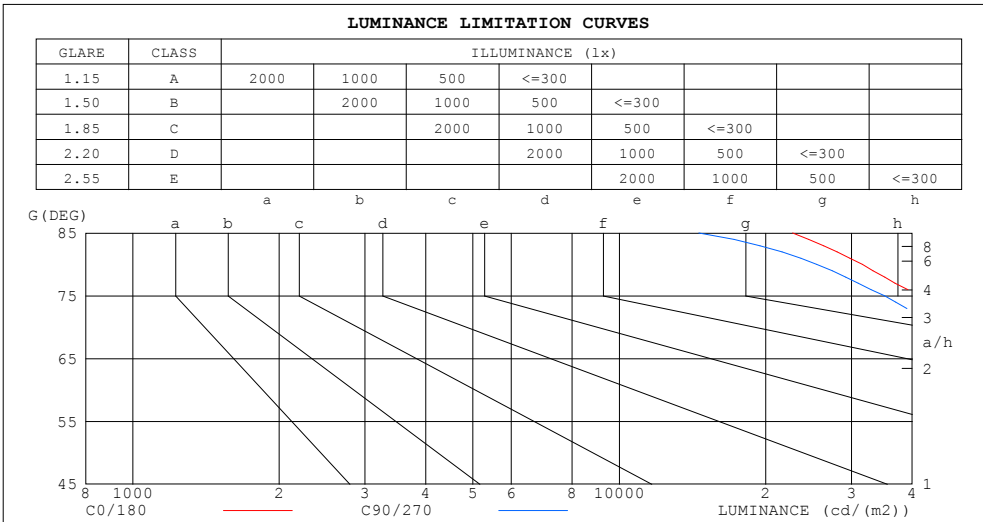
%lamp = 92.6%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-21

□ 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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22724	14579
80	31589	25460
75	41153	35087
70	52813	45544
65	67579	58580
60	88475	76354
55	117814	100917
50	160735	135397
45	224286	187011

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-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	.106	.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	.078	.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	.135	.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	.170	.170	.170	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.183	.165	.148	.157	.141	.128	.107	.097	.088	.062	.056	.051	.020	.018	.017	
2.0	.172	.140	.114	.147	.121	.098	.101	.084	.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	.064	.091	.065	.045	.053	.038	.026	.017	.012	.009	
5.0	.147	.097	.061	.126	.084	.053	.087	.059	.037	.050	.035	.022	.016	.011	.007	
6.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
7.0	.134	.082	.045	.115	.071	.039	.079	.050	.028	.046	.029	.017	.015	.010	.005	
8.0	.128	.076	.040	.110	.066	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.123	.071	.036	.106	.061	.031	.073	.043	.022	.043	.025	.013	.014	.008	.004	
10.0	.118	.067	.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:2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm		
NAME: ASD-UHB5-HV-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	28.6	29.9	28.9	30.1	30.3	28.1	29.3	28.3	29.5	29.7
3H	28.9	30.0	29.2	30.3	30.5	28.3	29.4	28.6	29.7	29.9
4H	28.9	30.0	29.2	30.3	30.5	28.3	29.4	28.6	29.7	29.9
6H	28.9	29.9	29.3	30.2	30.5	28.3	29.3	28.6	29.6	29.9
8H	28.9	29.9	29.3	30.2	30.5	28.3	29.3	28.6	29.5	29.8
12H	28.9	29.8	29.2	30.1	30.4	28.2	29.2	28.6	29.5	29.8
4H 2H	28.6	29.7	28.9	30.0	30.2	28.1	29.2	28.4	29.5	29.7
3H	29.0	29.9	29.3	30.2	30.5	28.4	29.4	28.8	29.7	30.0
4H	29.1	29.9	29.5	30.2	30.6	28.5	29.4	28.9	29.7	30.0
6H	29.1	29.9	29.5	30.2	30.6	28.6	29.3	29.0	29.7	30.0
8H	29.1	29.8	29.5	30.2	30.6	28.5	29.2	29.0	29.6	30.0
12H	29.1	29.7	29.5	30.1	30.6	28.5	29.1	29.0	29.5	30.0
8H 4H	29.0	29.7	29.4	30.1	30.5	28.5	29.2	28.9	29.6	30.0
6H	29.1	29.7	29.6	30.1	30.5	28.6	29.1	29.0	29.6	30.0
8H	29.1	29.6	29.6	30.1	30.5	28.6	29.1	29.0	29.5	30.0
12H	29.1	29.6	29.6	30.0	30.5	28.6	29.0	29.1	29.4	29.9
12H 4H	29.0	29.6	29.4	30.0	30.4	28.5	29.1	28.9	29.5	29.9
6H	29.1	29.6	29.6	30.0	30.5	28.5	29.0	29.0	29.5	29.9
8H	29.1	29.5	29.6	30.0	30.5	28.6	29.0	29.0	29.4	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.7					+ 1.2 / - 1.8				
1.5H	+ 1.4 / - 1.5					+ 1.4 / - 1.3				
2.0H	+ 2.9 / - 2.2					+ 2.4 / - 2.0				

CIE Pub.117, 51514 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 13.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

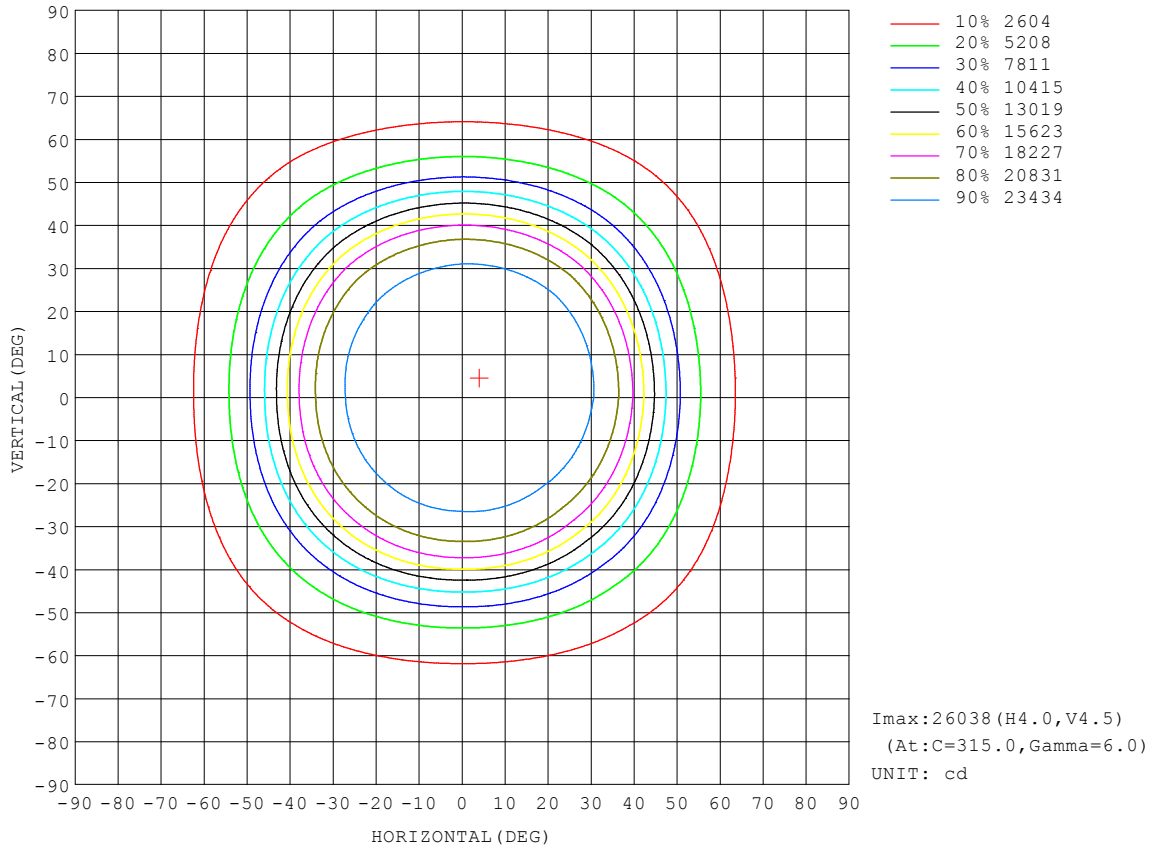
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	60	55	69	60	55	68	60	54	49
0.80	79	70	65	78	70	64	77	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	78	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: 2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

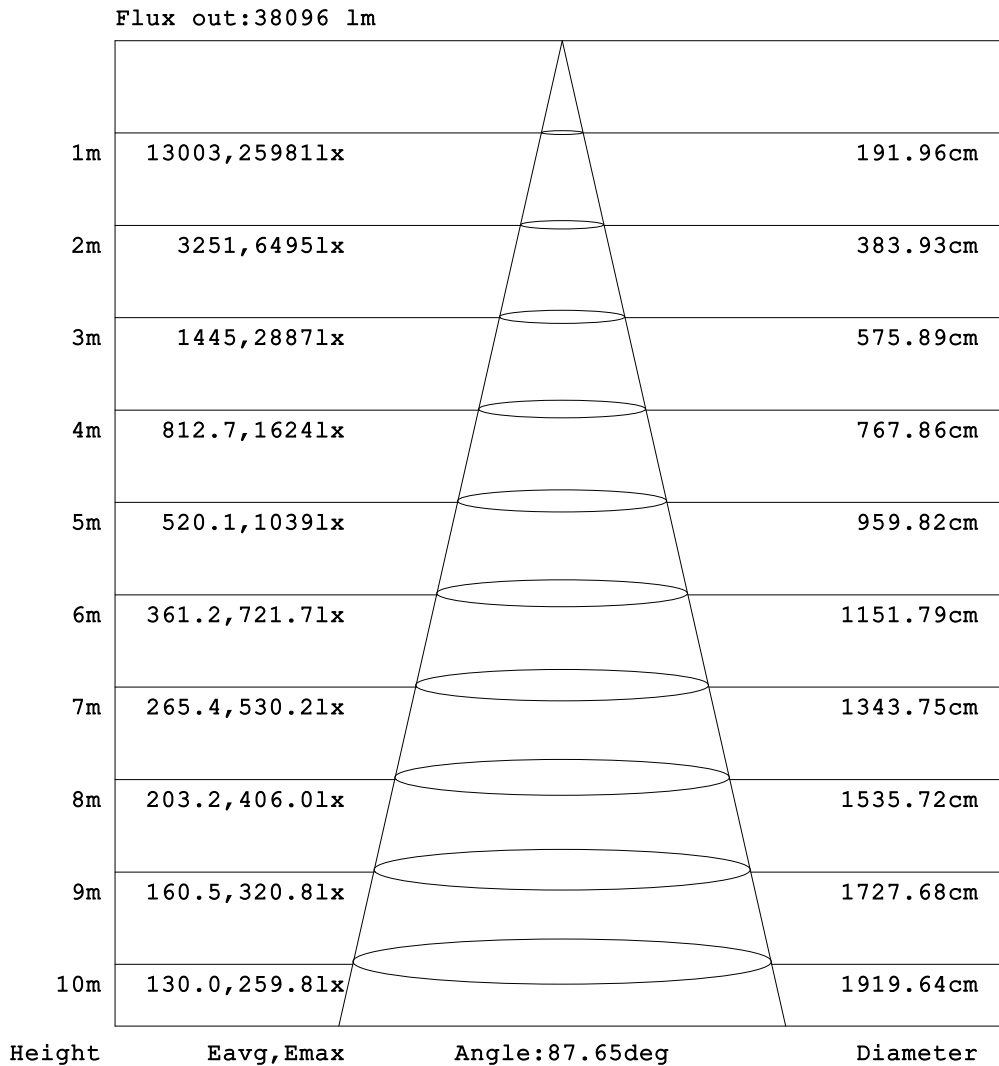


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

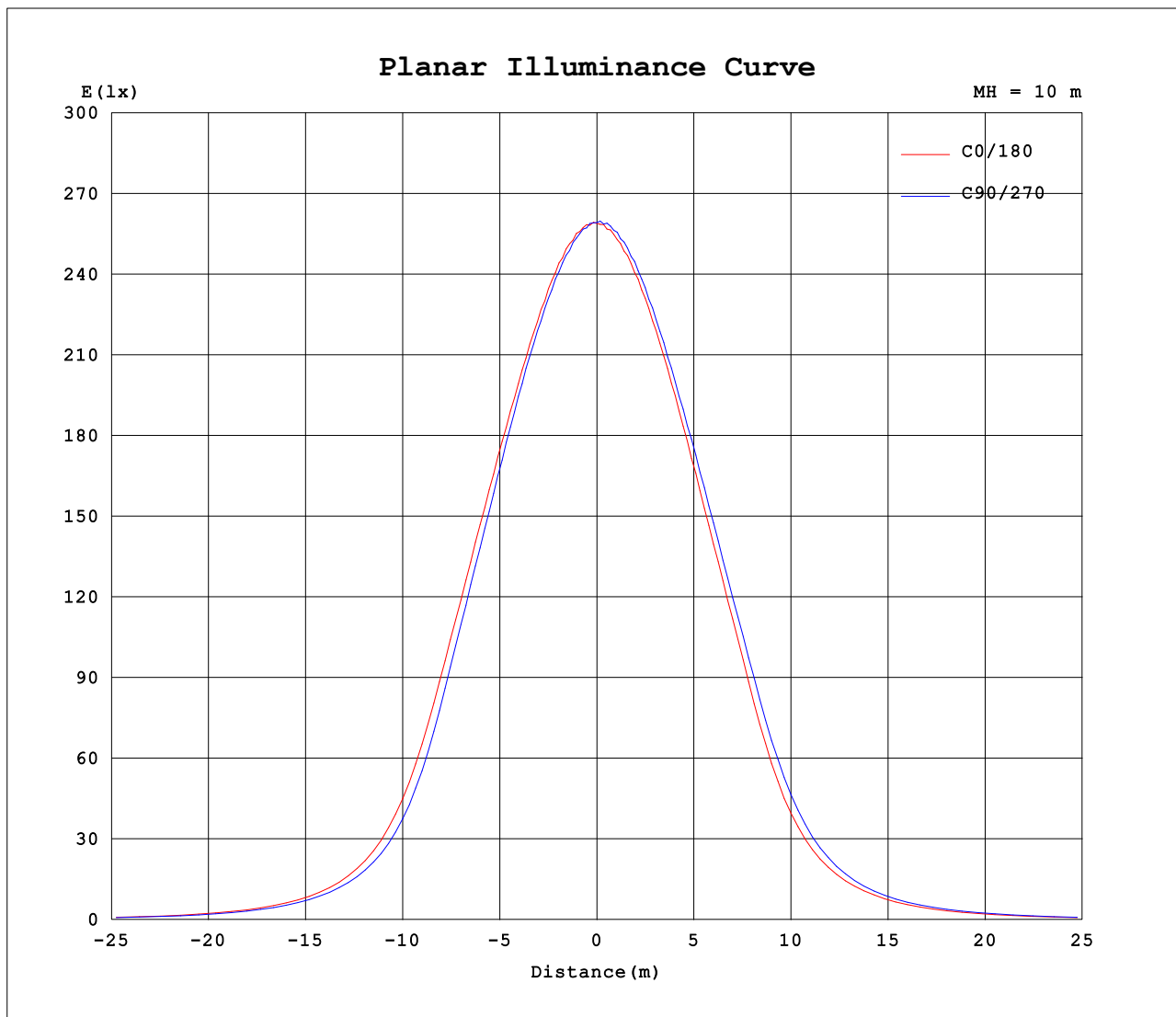


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-21

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: 2023-11-21

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:280.7V I:0.9876A P:275.3W PF:0.9931 Freq:59.99Hz Lamp Flux:51514.1x1 lm
NAME: ASD-UHB5-HV-PRO-300BK
SPEC.: 4000K
MFR.: ASD Lighting Corp

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	2589	2596	2592	2598	2589	2596	2592	2598											
5	2589	2589	2581	2583	2578	2592	2593	2602											
10	2577	2567	2557	2557	2555	2575	2583	2597											
15	2554	2532	2524	2520	2523	2547	2560	2577											
20	2517	2483	2471	2467	2470	2506	2523	2543											
25	2460	2406	2385	2380	2391	2443	2468	2487											
30	2360	2264	2240	2239	2259	2329	2370	2390											
35	2163	2031	1998	2001	2036	2134	2179	2206											
40	1794	1616	1560	1580	1618	1781	1825	1851											
45	1275	1110	1063	1083	1123	1260	1317	1320											
50	831	724	700	708	737	828	871	864											
55	543	476	465	468	487	545	567	561											
60	356	312	307	309	321	358	371	367											
65	230	202	199	200	208	233	240	237											
70	145	126	125	125	130	148	151	149											
75	85.6	73.3	73.0	72.9	75.9	88.5	89.0	87.9											
80	44.1	36.4	35.5	36.3	37.7	45.8	45.8	45.1											
85	15.9	10.9	10.2	10.6	11.2	16.4	16.1	16.2											
90	2.85	2.85	2.67	2.85	2.81	2.67	1.92	2.65											
95	2.43	2.84	2.56	2.84	2.63	2.68	2.16	2.65											
100	2.61	3.11	2.83	3.11	2.72	2.94	2.46	2.87											
105	3.32	3.64	3.72	3.74	3.60	3.32	3.16	3.22											
110	4.35	4.72	4.84	4.86	4.74	4.33	4.20	4.20											
115	5.52	5.93	6.09	6.11	6.08	5.57	5.42	5.41											
120	6.82	7.24	7.44	7.46	7.61	7.01	6.82	6.79											
125	8.18	8.64	8.86	8.88	9.29	8.60	8.44	8.32											
130	9.57	10.1	10.3	10.3	11.0	10.3	10.1	9.96											
135	10.9	11.4	11.7	11.7	12.6	11.9	11.8	11.6											
140	12.3	12.7	13.0	13.0	14.1	13.3	13.3	13.1											
145	13.5	14.0	14.2	14.2	15.4	14.7	14.7	14.5											
150	14.8	15.2	15.5	15.5	16.6	15.9	16.0	15.8											
155	16.3	16.7	17.0	16.9	17.9	17.3	17.3	17.2											
160	18.0	18.3	18.7	18.5	19.6	19.0	19.0	18.9											
165	19.8	19.9	20.4	20.1	21.1	20.4	20.6	20.3											
170	21.2	21.3	21.7	21.4	22.2	21.5	21.8	21.5											
175	22.4	22.3	22.7	22.5	22.9	22.4	22.7	22.4											
180	23.0	22.7	23.0	22.8	23.0	22.7	23.1	22.8											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-11-21

□ 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: