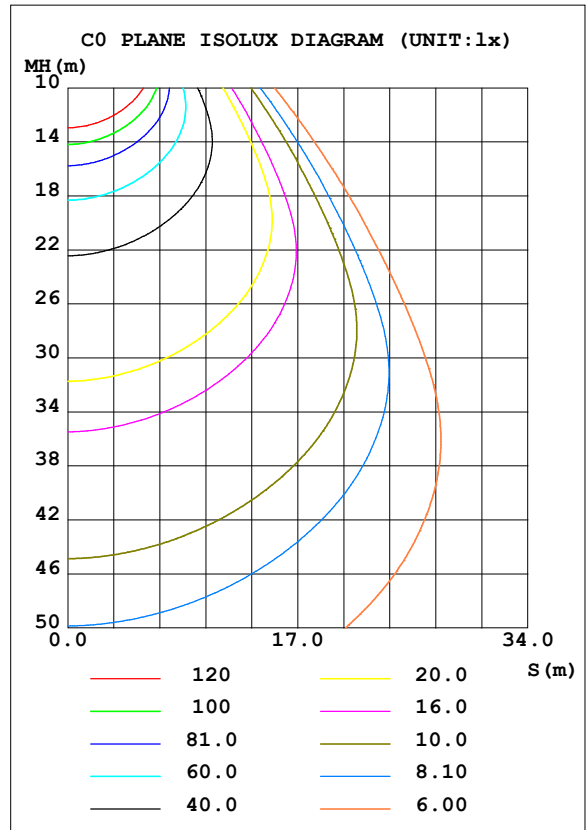
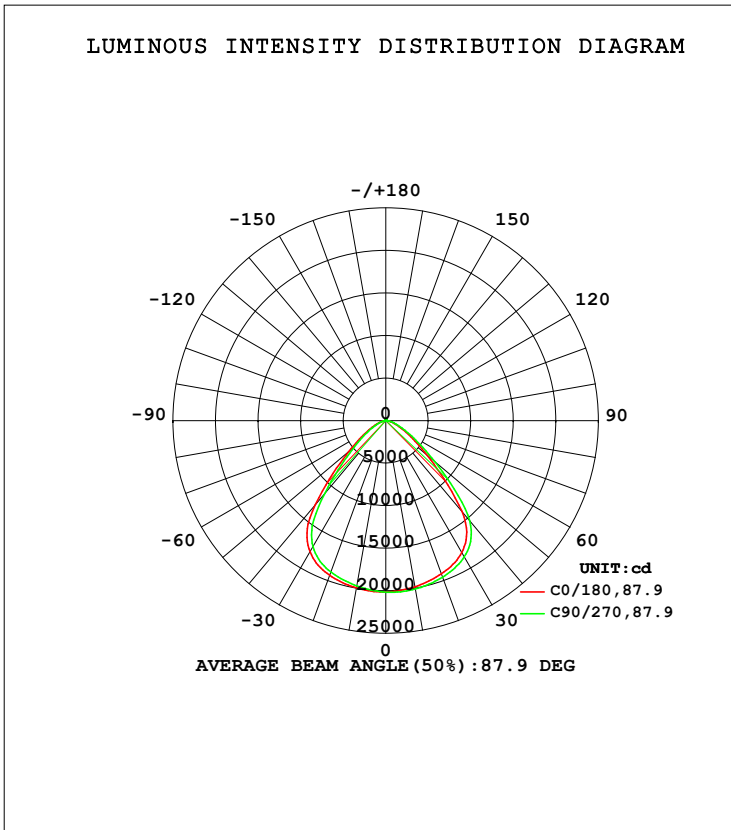


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.29 lm/W			
MODEL		I _{max} (cd)	20214	S/MH (C0/180)	1.24
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	40094	<input type="checkbox"/> UP, DN (C0-180)	0.5, 53.0
NOMINAL FLUX (lm)	40094.3	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 46.1
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: 2023-05-04

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	1982	1995	2010	2013	1996	1983	1972	1971	0- 10	1911	1911	4.77,4.77
20	1916	1935	1957	1963	1933	1911	1892	1895	10- 20	5549	7460	18.6,18.6
30	1789	1820	1848	1846	1781	1742	1712	1729	20- 30	8616	16076	40.1,40.1
40	1393	1493	1534	1510	1288	1159	1117	1169	30- 40	10016	26092	65.1,65.1
50	642.2	722.2	762.2	727.2	570.7	521.8	484.9	520.7	40- 50	7281	33373	83.2,83.2
60	278.4	316.4	327.0	312.0	249.1	227.5	210.4	225.1	50- 60	3735	37108	92.6,92.6
70	116.4	131.6	136.8	129.4	101.1	90.36	83.41	90.68	60- 70	1768	38876	97,97
80	36.21	42.47	44.32	41.19	27.17	22.09	19.72	23.11	70- 80	701.9	39578	98.7,98.7
90	1.413	1.816	1.905	1.775	1.469	1.573	1.594	1.506	80- 90	134.2	39712	99,99
100	1.851	1.735	1.661	1.740	1.904	2.053	2.143	2.067	90-100	17.35	39730	99.1,99.1
110	3.281	3.069	2.971	3.079	3.369	3.575	3.722	3.596	100-110	27.10	39757	99.2,99.2
120	5.156	4.884	4.763	4.873	5.260	5.495	5.682	5.526	110-120	41.99	39799	99.3,99.3
130	7.263	6.945	6.816	6.908	7.406	7.605	7.856	7.643	120-130	55.86	39855	99.4,99.4
140	9.288	8.970	8.875	8.892	9.498	9.695	9.905	9.702	130-140	64.36	39919	99.6,99.6
150	11.11	10.84	10.71	10.72	11.42	11.61	11.77	11.57	140-150	64.43	39983	99.7,99.7
160	13.08	12.74	12.70	12.64	13.48	13.61	13.83	13.57	150-160	56.15	40040	99.9,99.9
170	15.05	14.72	14.79	14.69	15.32	15.34	15.56	15.30	160-170	39.96	40080	100,100
180	16.11	15.94	16.10	15.90	16.10	15.95	16.09	15.91	170-180	14.82	40094	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 30277 lm

%lum = 75.5%

%lamp = 75.5%

Conical surface Flux(120deg): 37108 lm

%lum = 92.6%

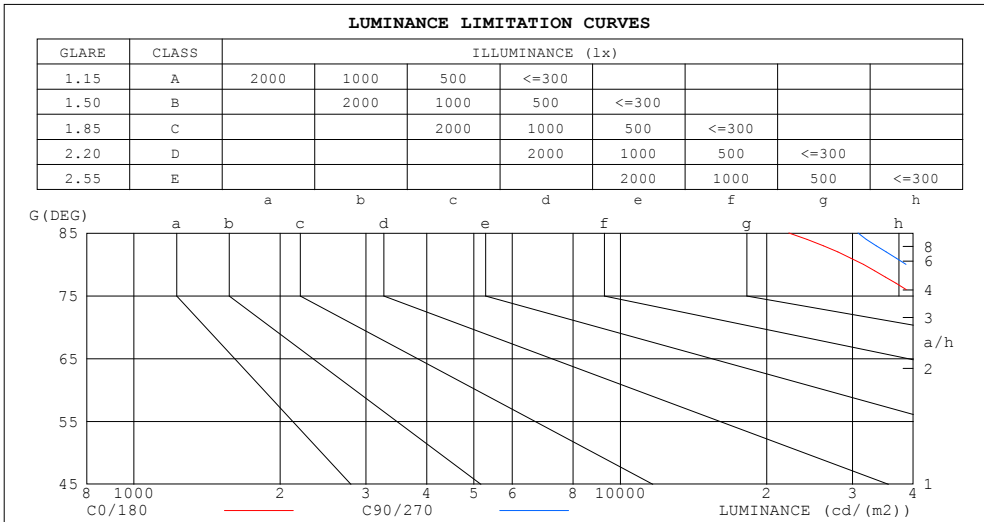
%lamp = 92.6%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2023-05-04

□ 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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22192	30807
80	31592	38673
75	40893	48642
70	51572	60581
65	65138	76350
60	84371	99092
55	111409	131166
50	151384	179665
45	208148	244328

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

<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	.235 .133 .042	.227 .130 .041	.214 .123 .039	.202 .116 .037	.190 .110 .036	
2.0	.228 .125 .038	.221 .122 .038	.210 .117 .036	.199 .112 .035	.189 .107 .034	
3.0	.217 .115 .035	.211 .113 .034	.201 .109 .033	.192 .105 .032	.183 .101 .031	
4.0	.205 .107 .031	.200 .105 .031	.191 .101 .030	.183 .098 .030	.175 .095 .029	
5.0	.194 .099 .029	.189 .097 .028	.181 .094 .028	.174 .092 .027	.167 .089 .027	
6.0	.183 .092 .026	.179 .090 .026	.172 .088 .026	.165 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.170 .084 .024	.163 .082 .024	.157 .081 .023	.152 .079 .023	
8.0	.164 .080 .022	.161 .079 .022	.155 .077 .022	.150 .076 .022	.145 .074 .022	
9.0	.155 .075 .021	.153 .074 .021	.147 .073 .021	.142 .071 .020	.138 .070 .020	
10.0	.147 .071 .020	.145 .070 .020	.140 .069 .019	.136 .067 .019	.132 .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	.115 .115 .115	.066 .066 .066	.021 .021 .021	
1.0	.182 .164 .148	.156 .141 .127	.107 .097 .088	.061 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.147 .120 .098	.100 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .121 .089	.139 .105 .077	.095 .073 .054	.055 .042 .032	.018 .014 .010	
4.0	.153 .107 .072	.132 .093 .063	.091 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.125 .084 .052	.086 .058 .037	.050 .034 .022	.016 .011 .007	
6.0	.139 .088 .051	.120 .076 .044	.083 .053 .031	.048 .031 .019	.015 .010 .006	
7.0	.133 .081 .044	.115 .070 .039	.079 .049 .027	.046 .029 .016	.015 .009 .005	
8.0	.127 .075 .039	.110 .065 .034	.076 .046 .024	.044 .027 .014	.014 .009 .005	
9.0	.122 .070 .035	.105 .061 .030	.073 .043 .022	.042 .025 .013	.014 .008 .004	
10.0	.117 .066 .032	.101 .057 .028	.070 .040 .020	.041 .024 .012	.013 .008 .004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm										
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.29*0.29m			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	29.1	30.3	29.3	30.5	30.7	29.6	30.9	29.8	31.1	31.3
3H	29.3	30.5	29.6	30.7	30.9	29.9	31.0	30.2	31.2	31.5
4H	29.4	30.5	29.7	30.7	31.0	29.9	31.0	30.2	31.3	31.5
6H	29.4	30.4	29.7	30.7	30.9	30.0	31.0	30.3	31.2	31.5
8H	29.3	30.3	29.7	30.6	30.9	29.9	30.9	30.3	31.2	31.5
12H	29.3	30.3	29.7	30.6	30.9	29.9	30.9	30.3	31.2	31.5
4H 2H	29.2	30.3	29.5	30.5	30.8	29.6	30.7	29.9	31.0	31.2
3H	29.5	30.5	29.9	30.8	31.1	30.0	31.0	30.4	31.3	31.6
4H	29.6	30.5	30.0	30.8	31.2	30.2	31.0	30.5	31.3	31.7
6H	29.7	30.5	30.1	30.8	31.2	30.2	31.0	30.6	31.3	31.7
8H	29.7	30.4	30.1	30.8	31.2	30.3	30.9	30.7	31.3	31.7
12H	29.7	30.3	30.1	30.7	31.1	30.3	30.9	30.7	31.3	31.7
8H 4H	29.6	30.3	30.1	30.7	31.1	30.1	30.8	30.6	31.2	31.6
6H	29.8	30.3	30.2	30.7	31.2	30.3	30.8	30.7	31.3	31.7
8H	29.8	30.3	30.3	30.7	31.2	30.3	30.8	30.8	31.3	31.7
12H	29.8	30.2	30.3	30.7	31.2	30.3	30.8	30.8	31.2	31.7
12H 4H	29.6	30.2	30.0	30.6	31.1	30.1	30.7	30.5	31.1	31.5
6H	29.7	30.2	30.2	30.7	31.1	30.3	30.8	30.7	31.2	31.7
8H	29.8	30.2	30.3	30.7	31.2	30.3	30.7	30.8	31.2	31.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.6					+ 1.1 / - 1.4				
1.5H	+ 1.1 / - 1.1					+ 0.9 / - 1.1				
2.0H	+ 2.3 / - 1.8					+ 2.4 / - 1.9				

CIE Pub.117, 40094 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.8)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

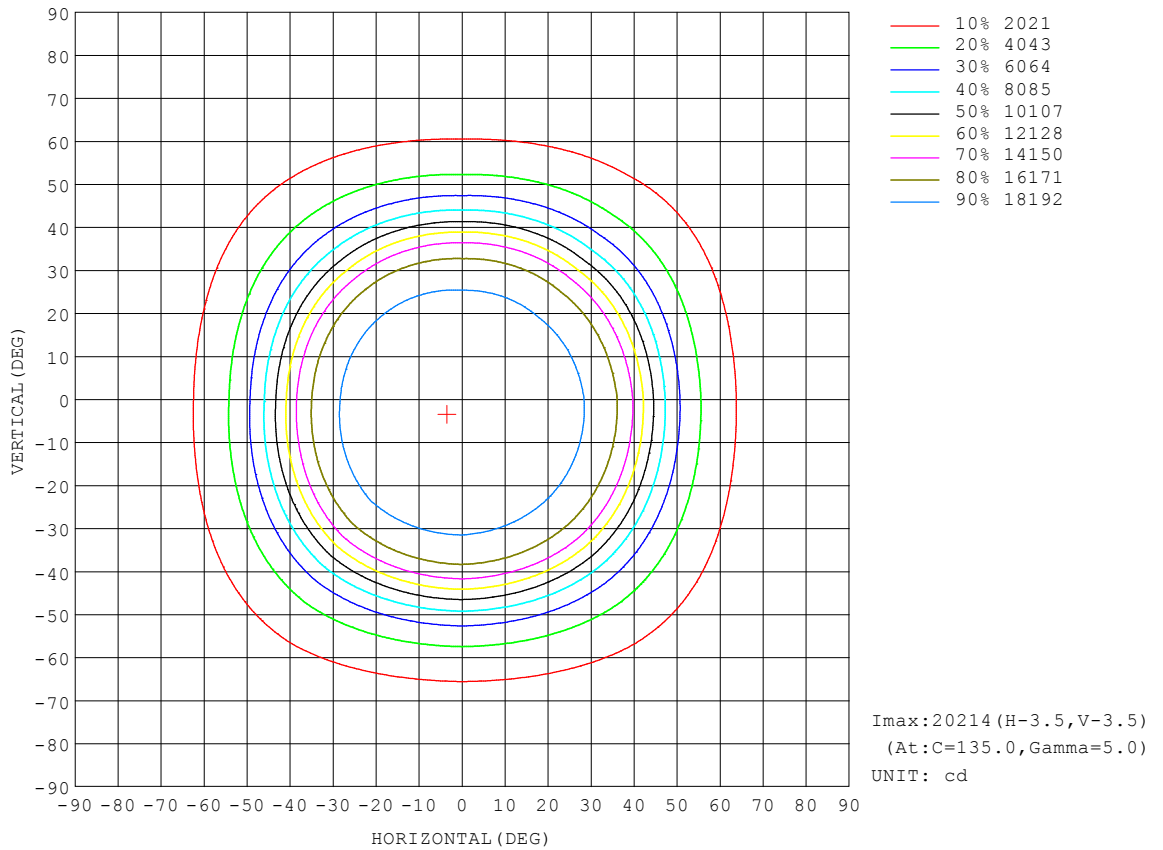
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	91	84	79	89	83	78	72
1.50	97	90	84	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	102	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:2023-05-04

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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

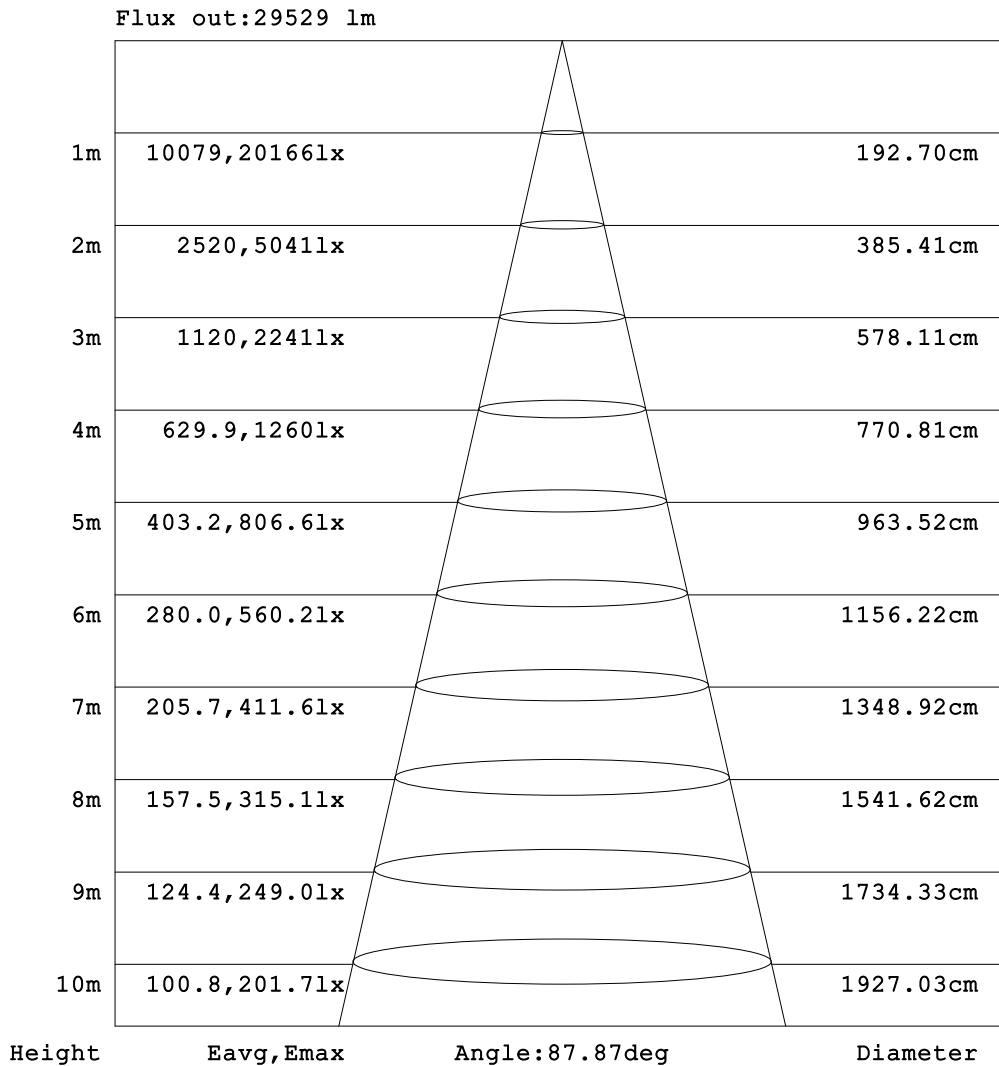


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

□ 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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

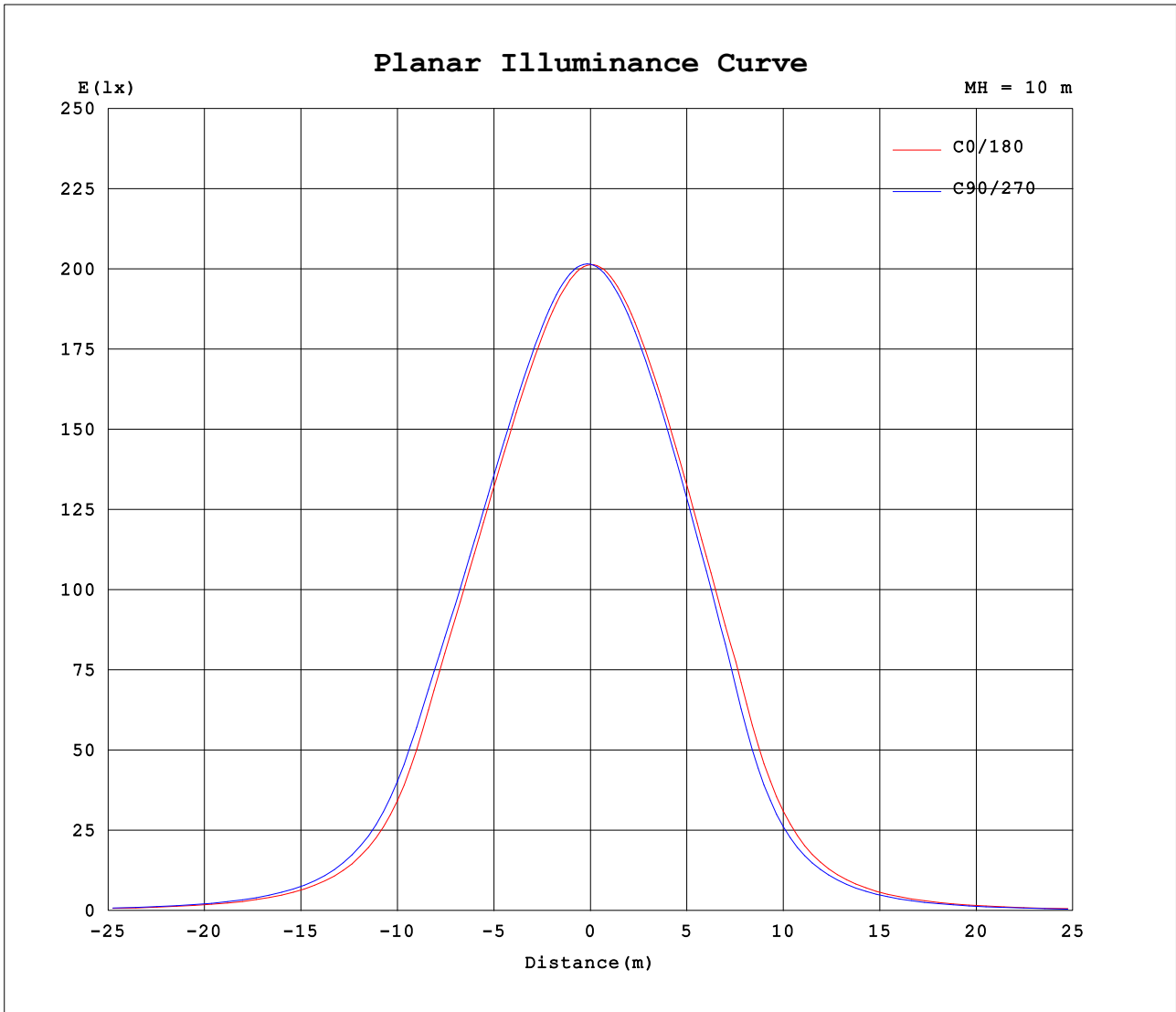


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

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: 2023-05-04

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:277.6V I:0.9505A P:259.9W PF:0.9848 Freq:59.98Hz Lamp Flux:40094.3x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	2014	2015	2015	2015	2014	2015	2015	2015											
5	2003	2011	2019	2021	2011	2004	1998	1997											
10	1982	1995	2010	2013	1996	1983	1972	1971											
15	1953	1969	1988	1993	1970	1952	1937	1938											
20	1916	1935	1957	1963	1933	1911	1892	1895											
25	1866	1889	1914	1918	1878	1848	1825	1833											
30	1789	1820	1848	1846	1781	1742	1712	1729											
35	1658	1702	1737	1723	1615	1542	1512	1543											
40	1393	1493	1534	1510	1288	1159	1117	1169											
45	971	1083	1140	1097	879	783	742	784											
50	642	722	762	727	571	522	485	521											
55	422	477	497	475	378	348	322	344											
60	278	316	327	312	249	227	210	225											
65	182	207	213	203	161	147	135	145											
70	116	132	137	129	101	90.4	83.4	90.7											
75	69.9	79.8	83.1	78.1	57.6	50.0	46.0	50.8											
80	36.2	42.5	44.3	41.2	27.2	22.1	19.7	23.1											
85	12.8	15.4	17.7	14.3	7.01	4.32	3.13	4.54											
90	1.41	1.82	1.90	1.78	1.47	1.57	1.59	1.51											
95	1.43	1.61	1.42	1.56	1.41	1.55	1.58	1.56											
100	1.85	1.73	1.66	1.74	1.90	2.05	2.14	2.07											
105	2.50	2.32	2.24	2.34	2.57	2.75	2.87	2.77											
110	3.28	3.07	2.97	3.08	3.37	3.58	3.72	3.60											
115	4.17	3.93	3.82	3.93	4.27	4.50	4.67	4.53											
120	5.16	4.88	4.76	4.87	5.26	5.50	5.68	5.53											
125	6.20	5.90	5.77	5.88	6.32	6.54	6.75	6.58											
130	7.26	6.94	6.82	6.91	7.41	7.61	7.86	7.64											
135	8.30	7.98	7.87	7.92	8.46	8.66	8.90	8.68											
140	9.29	8.97	8.88	8.89	9.50	9.69	9.90	9.70											
145	10.2	9.94	9.81	9.83	10.5	10.7	10.8	10.6											
150	11.1	10.8	10.7	10.7	11.4	11.6	11.8	11.6											
155	12.1	11.8	11.7	11.6	12.4	12.6	12.8	12.6											
160	13.1	12.7	12.7	12.6	13.5	13.6	13.8	13.6											
165	14.1	13.8	13.8	13.7	14.5	14.6	14.8	14.5											
170	15.1	14.7	14.8	14.7	15.3	15.3	15.6	15.3											
175	15.8	15.5	15.6	15.5	15.9	15.8	16.0	15.8											
180	16.1	15.9	16.1	15.9	16.1	16.0	16.1	15.9											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

□ 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: