

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

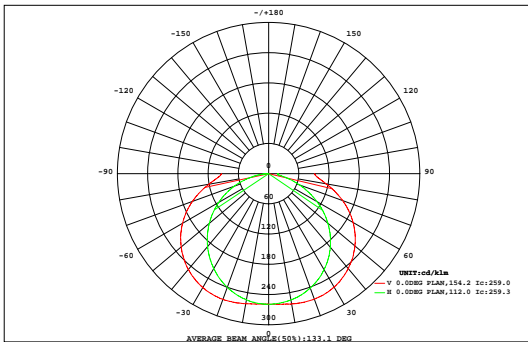
Maximum Intensity (Luminaire orientation as tested.)		265.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I <sub>max</sub> At 50% of I <sub>max</sub> At 90% of I <sub>max</sub>	160.6V x 180.0H 112.0V x 154.2H 47.7V x 93.5H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	1000.0 lumens per klm. 997.5 lumens per klm. 800.4 lumens per klm. 265.7 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: 袁冠彬  
Test Date: 2017-09-20

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
Humidity: 65.0%  
Test Distance: 7.400m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.52*0.06 Shielding Angle:	



DATA OF LAMP		Eff:49.50lm/W	
MODEL	LED	Imax(cd/klm)	265.6
NOMINAL POWER(W)	30	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	120	Avai. FLUX(lm/klm)	998.1
NOMINAL FLUX(lm)	1360.1	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm/klm)	1000
TEST VOLTAGE(V)	120	θ @50%(H,V)	154,112DEG

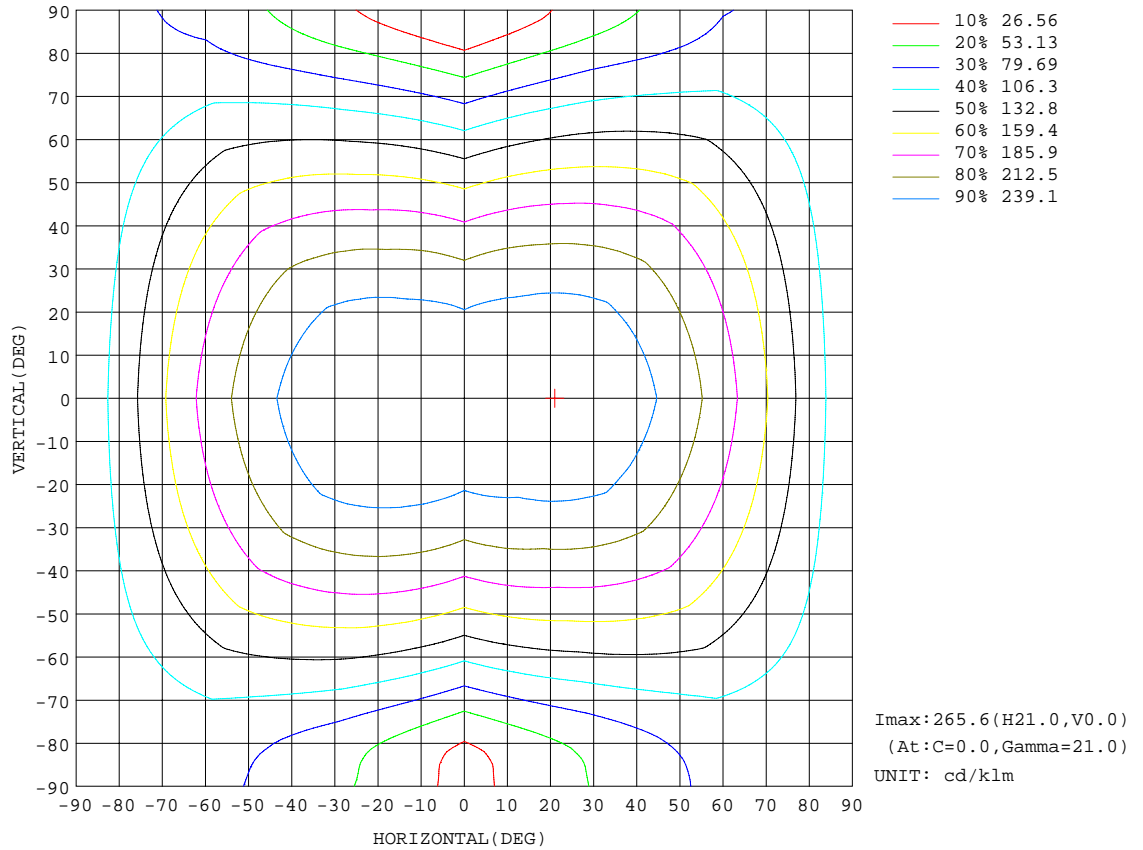
VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm/klm		Φ t	Φ a		
	0.23	0.66	1.02	1.26	1.31	1.24	1.07	0.83	0.52	0.56	0.94	1.24	1.41	1.45	1.36	1.09	0.69			0.24	17.1
90	0.23	0.66	1.02	1.26	1.31	1.24	1.07	0.83	0.52	0.56	0.94	1.24	1.41	1.45	1.36	1.09	0.69	0.24	17.1	15.9	
80	0.24	0.70	1.17	1.59	1.86	2.01	2.04	1.94	1.70	1.73	2.04	2.20	2.18	2.00	1.70	1.25	0.74	0.25	27.3	27.3	
70	0.24	0.76	1.37	2.00	2.50	2.88	3.09	3.15	3.00	3.03	3.25	3.25	3.04	2.64	2.11	1.44	0.80	0.25	38.8	38.8	
60	0.25	0.83	1.58	2.41	3.13	3.71	4.10	4.29	4.23	4.26	4.38	4.24	3.86	3.27	2.52	1.65	0.87	0.26	49.8	49.8	
50	0.26	0.90	1.77	2.77	3.71	4.47	5.01	5.32	5.33	5.36	5.40	5.13	4.60	3.83	2.88	1.84	0.94	0.27	59.8	59.8	
40	0.26	0.96	1.94	3.07	4.21	5.14	5.81	6.20	6.29	6.31	6.27	5.91	5.24	4.32	3.17	2.01	1.00	0.27	68.4	68.4	
30	0.27	1.01	2.08	3.32	4.58	5.68	6.46	6.91	7.05	7.06	6.95	6.53	5.77	4.67	3.40	2.14	1.05	0.28	75.2	75.2	
20	0.27	1.05	2.18	3.50	4.84	6.03	6.94	7.42	7.57	7.57	7.45	6.99	6.10	4.91	3.57	2.24	1.09	0.28	80.0	80.0	
10	0.28	1.08	2.25	3.62	5.01	6.25	7.18	7.70	7.84	7.84	7.70	7.21	6.30	5.07	3.69	2.31	1.12	0.29	82.7	82.7	
0	0.28	1.08	2.25	3.63	5.02	6.26	7.20	7.71	7.85	7.82	7.69	7.20	6.29	5.07	3.68	2.30	1.12	0.29	82.7	82.7	
-10	0.27	1.06	2.19	3.52	4.87	6.09	7.00	7.49	7.61	7.57	7.42	6.97	6.08	4.89	3.55	2.23	1.09	0.28	80.2	80.2	
-20	0.27	1.02	2.09	3.34	4.63	5.77	6.57	7.03	7.13	7.09	6.93	6.50	5.74	4.63	3.37	2.12	1.05	0.28	75.6	75.6	
-30	0.26	0.97	1.95	3.11	4.28	5.25	5.95	6.34	6.38	6.34	6.23	5.85	5.18	4.26	3.12	1.98	0.99	0.27	68.7	68.7	
-40	0.26	0.91	1.78	2.80	3.78	4.58	5.16	5.44	5.39	5.36	5.33	5.02	4.49	3.74	2.80	1.80	0.93	0.27	59.8	59.8	
-50	0.25	0.84	1.59	2.44	3.18	3.79	4.20	4.34	4.20	4.17	4.24	4.05	3.69	3.13	2.43	1.61	0.86	0.26	49.3	49.3	
-60	0.25	0.78	1.40	2.03	2.54	2.92	3.13	3.10	2.86	2.82	3.00	2.98	2.81	2.48	2.02	1.41	0.80	0.25	37.6	37.6	
-70	0.24	0.74	1.24	1.68	1.95	2.10	2.09	1.88	1.54	1.51	1.79	1.95	1.99	1.89	1.66	1.25	0.75	0.25	26.5	26.5	
-80	0.24	0.71	1.16	1.49	1.64	1.66	1.52	1.20	0.81	0.78	1.12	1.39	1.55	1.57	1.46	1.16	0.72	0.25	20.4	19.7	
-90	0.24	0.71	1.16	1.49	1.64	1.66	1.52	1.20	0.81	0.78	1.12	1.39	1.55	1.57	1.46	1.16	0.72	0.25	20.4	19.7	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	4.63	16.1	31.0	47.6	63.0	75.8	84.5	88.3	87.3	87.2	88.1	84.6	76.3	63.8	48.5	31.8	16.6	4.79	1000	---	
Φ a	4.63	16.1	31.0	47.6	63.0	75.8	84.4	88.0	86.6	86.5	87.9	84.6	76.3	63.8	48.5	31.8	16.6	4.79	---	998	

one-half-peak spread: U:55.0,D:57.6 , L:56.9,R:57.0 NEMA Beam Type: Type 7

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:袁冠彬  
 Test Date:2017-09-20  
 γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.52*0.06	Shielding Angle:

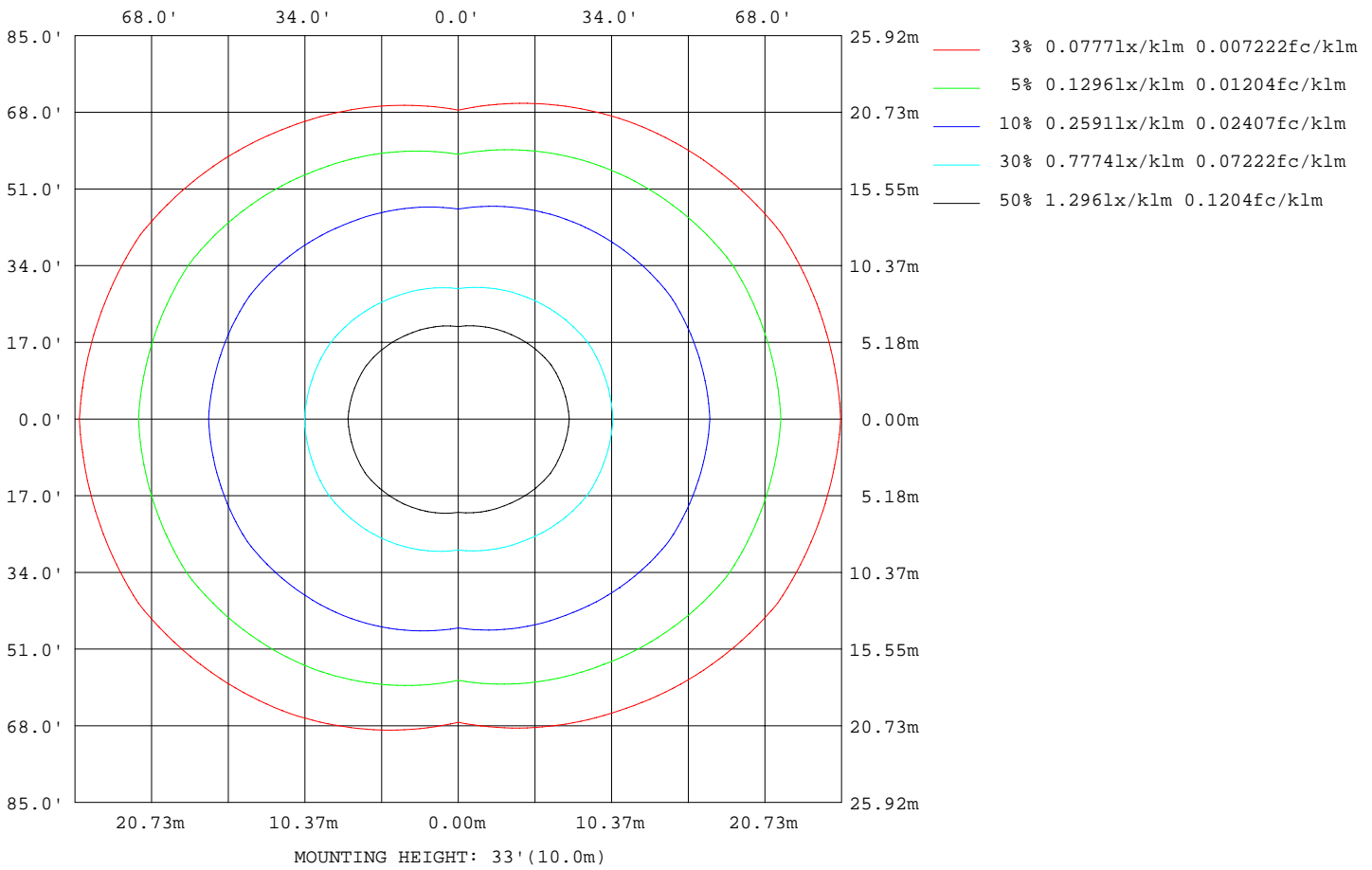


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: 袁冠彬  
 Test Date: 2017-09-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 7.400m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

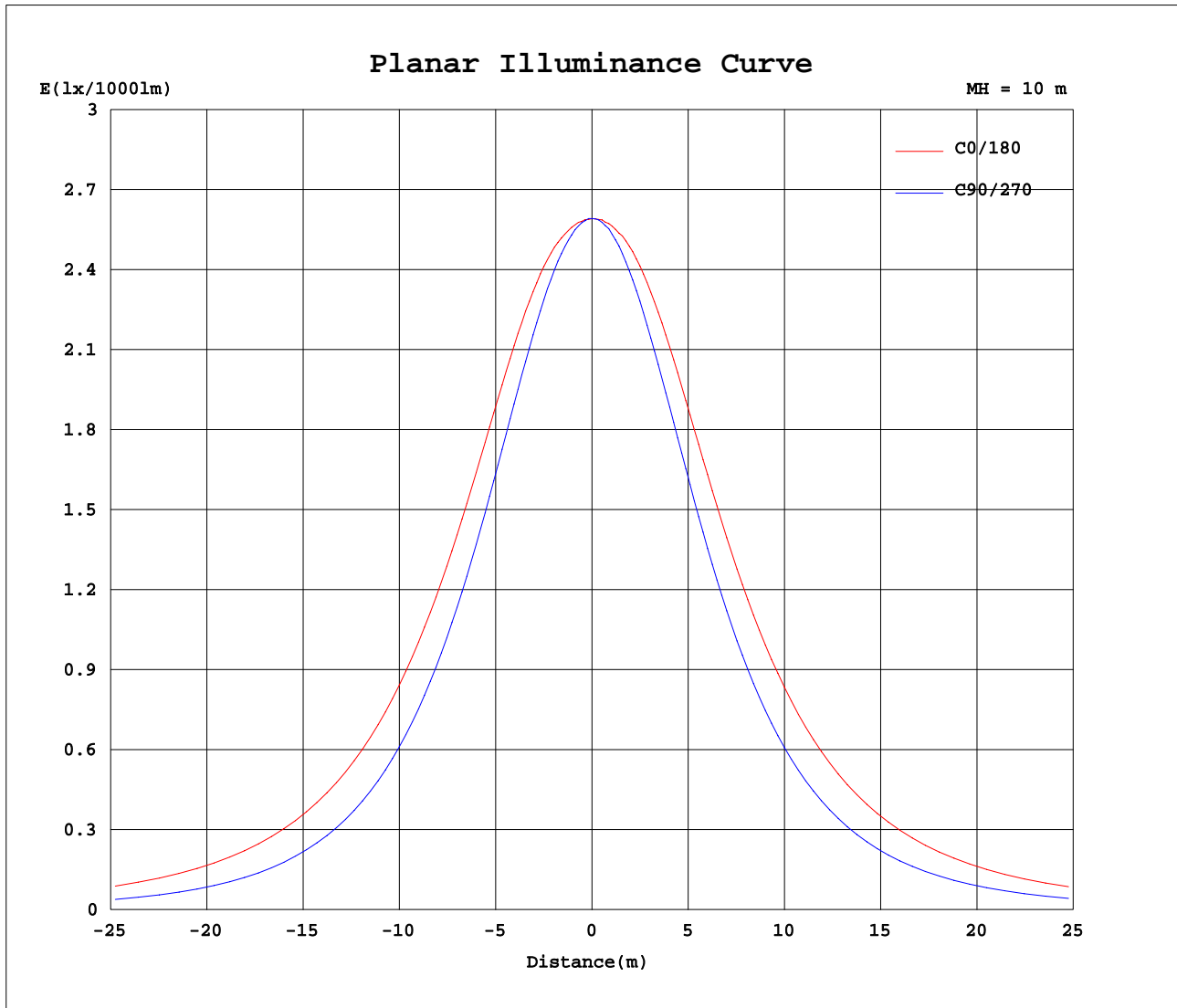
Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.52*0.06 Shielding Angle:	



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:袁冠彬  
 Test Date:2017-09-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

Planar Illuminance Curve

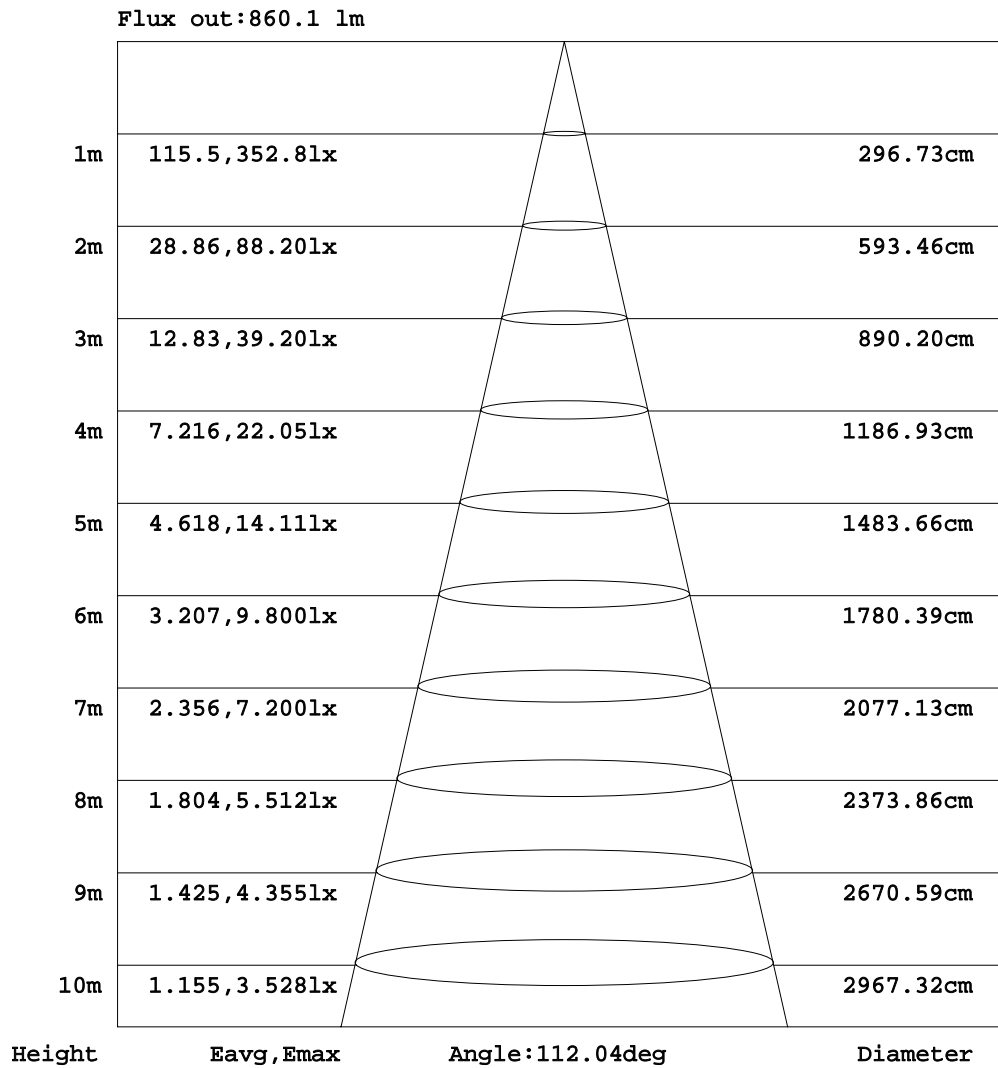


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: 袁冠彬  
 Test Date: 2017-09-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 7.400m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.516*0.08	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: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:袁冠彬  
 Test Date:2017-09-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.52*0.06 Shielding Angle:	

Table--1

UNIT: cd/klm

H( DEG ) V( DEG )	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	91.4	90.9	90.3	89.8	89.3	88.7	88.2	83.4	78.6	73.8	68.9	64.1	59.3	52.4	45.6	38.7	31.8	24.9	18.1
-85	91.4	91.1	90.7	90.5	90.2	89.9	89.5	85.0	80.4	75.8	71.0	66.2	61.4	54.3	47.2	40.0	32.8	25.5	18.3
-80	91.4	91.3	91.4	91.7	92.0	92.2	92.3	88.8	84.8	80.5	76.2	71.7	67.1	60.6	53.9	47.1	40.0	32.8	25.3
-75	91.4	91.6	92.5	93.6	94.8	96.3	97.6	95.7	93.1	90.3	87.2	83.9	80.3	75.2	69.5	63.5	57.1	50.2	42.9
-70	91.4	92.0	93.8	96.0	98.8	102	105	105	105	103	102	99.8	97.4	93.7	89.1	84.0	78.2	71.7	64.5
-65	91.4	92.5	95.3	99.1	103	108	114	117	117	118	118	117	116	114	110	106	101	94.5	87.6
-60	91.4	93.1	97.0	102	109	116	123	128	131	133	134	135	135	134	131	127	123	117	110
-55	91.4	93.7	99.0	106	115	123	132	140	145	148	151	152	153	153	151	148	144	139	133
-50	91.4	94.4	101	110	120	131	141	151	158	162	166	169	170	171	170	168	164	160	154
-45	91.4	95.0	103	114	126	138	150	161	170	176	180	184	186	187	187	186	183	179	173
-40	91.4	95.7	105	118	131	145	158	170	181	188	194	198	201	203	203	202	200	196	191
-35	91.4	96.3	107	121	136	151	165	178	190	200	206	211	214	216	217	216	215	211	206
-30	91.4	96.9	109	124	141	157	171	185	197	208	217	222	226	228	229	229	227	225	220
-25	91.4	97.4	111	127	145	161	177	192	204	216	225	233	236	239	240	240	238	236	232
-20	91.4	97.9	112	130	148	166	182	197	210	222	232	239	246	248	249	248	247	245	242
-15	91.4	98.3	113	132	151	169	186	201	215	227	237	245	251	255	256	255	253	252	249
-10	91.4	98.6	114	134	153	172	189	205	219	231	241	249	255	259	261	260	258	256	255
-5	91.4	98.9	115	135	155	174	192	208	222	234	244	252	258	261	263	263	261	259	258
0	91.4	99.0	116	136	156	176	193	209	223	236	246	254	260	263	265	264	263	260	259
5	91.4	98.8	115	135	155	174	191	207	221	233	243	251	257	261	262	262	261	259	258
10	91.4	98.4	114	134	153	172	189	204	218	230	239	247	253	257	259	259	257	256	254
15	91.4	98.0	113	132	151	169	185	200	214	225	234	242	248	253	254	253	252	250	248
20	91.4	97.4	112	130	148	165	181	196	208	219	229	236	242	245	246	245	244	243	240
25	91.4	96.8	110	127	144	161	176	190	202	213	222	229	232	235	236	235	235	233	230
30	91.4	96.1	108	124	140	156	170	183	195	205	214	218	222	224	224	224	223	221	218
35	91.4	95.4	106	121	136	150	164	176	187	197	202	207	209	211	211	211	210	208	204
40	91.4	94.6	104	117	131	144	156	168	178	185	190	194	196	197	197	197	196	193	189
45	91.4	93.8	102	113	125	137	148	159	168	173	177	180	181	182	182	181	180	176	172
50	91.4	93.0	99.4	109	119	130	140	149	156	160	163	165	166	166	166	164	162	159	154
55	91.4	92.1	97.0	104	113	122	131	139	143	146	148	149	149	149	148	146	144	140	135
60	91.4	91.4	94.6	100	107	114	121	127	130	131	132	133	132	131	130	127	124	120	115
65	91.4	90.6	92.4	96.1	101	106	112	115	116	116	116	116	114	112	110	107	104	99.2	93.9
70	91.4	90.0	90.4	92.1	95.0	98.2	102	103	102	101	100	98.1	95.7	93.2	90.3	86.7	82.6	77.7	72.3
75	91.4	89.4	88.6	88.7	89.5	90.9	92.5	90.9	88.8	86.4	83.7	80.7	77.3	73.9	70.1	65.9	61.2	56.0	50.3
80	91.4	88.9	87.1	85.8	85.0	84.4	84.0	80.4	76.4	72.3	68.2	63.9	59.4	55.1	50.5	45.6	40.5	35.0	29.2
85	91.4	88.6	85.9	83.6	81.4	79.3	77.4	71.8	66.1	60.4	54.7	49.0	43.3	38.1	32.8	27.4	21.8	16.1	10.3
90	91.4	88.3	85.1	82.0	78.9	75.8	72.7	65.8	59.0	52.2	45.4	38.6	31.8	26.5	21.2	15.9	10.6	5.29	0.00

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
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 Test Date:2017-09-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.25V I:0.2299A P:27.479W PF:0.9940 Freq:59.98Hz Lamp Flux:1360.1x1 lm		
NAME: LASW052833LAJD2	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: LIGHTART	SUR.:0.52*0.116+2*0.52*0.06+0.52*0.06 Shielding Angle:	

Table--2

UNIT: cd/klm

H( DEG ) V( DEG )	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	24.1	30.2	36.3	42.3	48.4	54.5	60.1	65.7	71.3	76.9	82.4	88.0	89.0	89.9	90.9	91.8	92.8	93.7	
-85	24.6	30.9	37.1	43.4	49.6	55.7	61.4	67.1	72.7	78.2	83.7	89.0	90.0	90.9	91.6	92.3	93.0	93.7	
-80	31.8	38.1	44.2	50.1	55.8	61.5	67.0	72.4	77.6	82.7	87.5	91.9	92.4	92.8	93.0	93.2	93.3	93.7	
-75	49.2	55.1	60.5	65.5	70.2	74.6	79.2	83.5	87.4	91.1	94.6	97.3	96.6	95.9	95.1	94.3	93.8	93.7	
-70	70.6	76.1	80.8	85.0	88.6	91.9	95.2	98.1	101	103	104	105	102	100.0	97.8	95.8	94.3	93.7	
-65	93.4	98.4	102	106	108	111	113	114	115	116	116	114	109	105	101	97.6	94.9	93.7	
-60	116	120	124	126	128	130	131	131	131	130	128	123	117	110	105	99.6	95.6	93.7	
-55	138	142	145	146	147	148	148	147	146	143	140	132	124	116	109	102	96.3	93.7	
-50	158	162	164	165	165	166	165	163	160	157	151	142	132	122	113	104	97.1	93.7	
-45	177	180	182	182	182	182	181	178	174	169	160	151	140	128	117	106	97.9	93.7	
-40	195	197	198	198	198	197	195	192	187	180	170	159	147	134	121	108	98.6	93.7	
-35	210	212	213	213	212	211	208	204	199	189	179	166	153	139	124	111	99.4	93.7	
-30	223	225	225	225	225	224	220	216	208	198	186	173	159	144	128	113	100	93.7	
-25	234	236	236	237	236	235	231	224	215	205	193	179	164	148	131	114	101	93.7	
-20	244	244	245	246	246	244	239	231	222	211	199	185	169	152	134	116	101	93.7	
-15	250	251	253	254	254	250	244	237	228	216	203	189	173	155	136	117	102	93.7	
-10	255	257	259	259	258	255	249	242	232	221	208	193	176	158	138	119	102	93.7	
-5	258	260	262	263	261	258	253	245	236	224	211	195	178	160	140	120	103	93.7	
0	260	262	265	265	264	261	256	248	238	227	213	197	180	161	141	120	103	93.7	
5	259	261	262	263	262	259	253	246	236	225	211	196	179	160	140	120	103	93.7	
10	255	257	260	260	259	255	249	242	233	221	208	193	177	158	139	119	102	93.7	
15	250	252	254	255	255	251	245	238	228	217	205	190	174	156	137	118	102	93.7	
20	243	245	246	247	247	245	240	232	223	212	200	186	170	153	135	116	101	93.7	
25	234	236	237	238	237	236	233	226	217	207	195	181	166	149	132	115	101	93.7	
30	222	225	226	227	227	225	222	218	210	200	188	175	161	146	129	113	99.9	93.7	
35	209	212	214	215	215	213	211	207	201	192	181	169	156	141	126	111	99.1	93.7	
40	194	197	200	201	201	200	198	195	190	183	173	162	150	136	122	109	98.2	93.7	
45	177	181	184	186	187	186	185	182	178	174	165	154	143	131	118	106	97.4	93.7	
50	160	164	168	170	171	171	170	168	166	162	155	146	136	125	114	104	96.5	93.7	
55	141	146	150	152	154	155	155	154	152	149	145	137	128	119	110	101	95.6	93.7	
60	121	126	131	134	137	138	139	139	138	136	134	128	120	112	105	99.0	94.8	93.7	
65	100	106	111	115	118	121	122	123	123	123	121	118	112	106	101	96.7	94.0	93.7	
70	78.9	84.9	90.3	95.0	99.2	103	105	107	108	109	109	108	104	100	97.0	94.5	93.2	93.7	
75	57.2	63.6	69.5	74.9	80.0	84.4	87.7	90.6	93.1	95.3	97.3	98.6	96.6	94.8	93.4	92.6	92.5	93.7	
80	36.2	42.9	49.3	55.3	61.1	66.5	70.8	74.9	78.9	82.8	86.7	90.1	90.0	90.0	90.3	90.9	92.0	93.7	
85	17.3	24.2	30.9	37.5	44.0	50.4	56.0	61.5	67.0	72.4	77.9	83.3	84.7	86.2	87.8	89.5	91.6	93.7	
90	6.51	13.0	19.5	26.1	32.6	39.1	45.6	52.2	58.8	65.3	71.9	78.5	81.0	83.5	86.1	88.6	91.2	93.7	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: 袁冠彬  
 Test Date: 2017-09-20

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.366  
 Humidity: 65.0%  
 Test Distance: 7.400m [K=1.0000]  
 Remarks: