

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

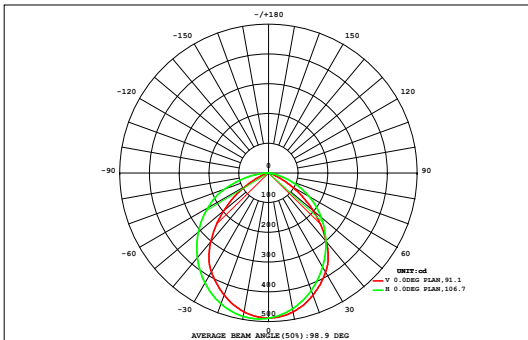
Maximum Intensity (Luminaire orientation as tested.)		442.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I <sub>max</sub> At 50% of I <sub>max</sub> At 90% of I <sub>max</sub>	155.0V x 128.9H 106.7V x 91.1H 42.0V x 39.1H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	1000.1 lumens per klm. 982.6 lumens per klm. 729.2 lumens per klm. 162.3 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency (Light Output Ratio)		100.0 %

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 袁冠彬  
Test Date: 2018-11-19

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 7.400m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1724A P:20.54W PF:0.9926 Freq:59.98Hz Lamp Flux:1111.99x1 lm		
NAME: Rowan-20"	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2018111904
MFR.: EVERFINE	SUR.:0.083*0.35	Shielding Angle:



DATA OF LAMP		Eff:54.13lm/W	
MODEL	RWNW052016LAJD2	Imax (cd)	492.0
NOMINAL POWER (W)	20	AVAILABILITY (%)	98.2
RATED VOLTAGE (V)	120	Avai. FLUX (lm)	1092
NOMINAL FLUX (lm)	1111.99	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1112
TEST VOLTAGE (V)	120.086	θ @50% (H, V)	91,107DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a	
	0.00	0.00	0.01	0.01	0.02	0.03	0.14	0.38	0.60	0.59	0.36	0.13	0.03	0.01	0.01	0.01	0.00	0.00	2.34	0.21
90	0.00	0.00	0.01	0.01	0.02	0.03	0.14	0.38	0.60	0.59	0.36	0.13	0.03	0.01	0.01	0.01	0.00	0.00	2.34	0.21
80	0.00	0.00	0.01	0.02	0.11	0.58	1.52	2.64	3.14	3.11	2.58	1.45	0.54	0.10	0.02	0.01	0.00	0.00	15.8	13.6
70	0.00	0.01	0.01	0.14	0.76	2.18	3.93	5.37	5.95	5.92	5.30	3.83	2.07	0.69	0.13	0.01	0.01	0.00	36.3	34.8
60	0.00	0.01	0.05	0.51	1.91	3.98	6.15	7.54	8.19	8.17	7.47	6.05	3.84	1.79	0.47	0.05	0.01	0.00	56.2	55.1
50	0.00	0.01	0.16	1.09	3.06	5.59	7.97	9.47	10.2	10.2	9.40	7.86	5.43	2.91	1.01	0.15	0.01	0.00	74.6	73.8
40	0.00	0.01	0.30	1.66	4.04	6.94	9.44	11.1	12.0	12.0	11.0	9.32	6.78	3.88	1.57	0.29	0.01	0.00	90.5	89.8
30	0.00	0.02	0.46	2.10	4.79	7.94	10.5	12.4	13.5	13.5	12.4	10.4	7.78	4.65	2.01	0.44	0.02	0.00	103	102
20	0.00	0.03	0.58	2.41	5.25	8.55	11.2	13.3	14.4	14.4	13.2	11.1	8.41	5.13	2.35	0.58	0.03	0.00	111	111
10	0.00	0.03	0.63	2.53	5.44	8.75	11.4	13.5	14.7	14.7	13.5	11.4	8.68	5.39	2.52	0.64	0.04	0.00	114	113
0	0.00	0.03	0.62	2.49	5.36	8.60	11.2	13.3	14.4	14.3	13.2	11.1	8.53	5.32	2.48	0.63	0.04	0.00	112	111
-10	0.00	0.03	0.55	2.30	5.00	8.08	10.5	12.3	13.4	13.3	12.2	10.4	7.93	4.90	2.25	0.55	0.03	0.00	104	103
-20	0.00	0.02	0.41	1.92	4.34	7.13	9.40	11.0	11.8	11.8	10.9	9.27	6.99	4.23	1.85	0.41	0.02	0.00	91.5	90.9
-30	0.00	0.01	0.25	1.41	3.44	5.90	7.97	9.29	10.0	9.99	9.21	7.86	5.78	3.34	1.36	0.25	0.01	0.00	76.1	75.4
-40	0.00	0.01	0.12	0.83	2.40	4.42	6.28	7.43	8.00	7.98	7.37	6.19	4.31	2.31	0.80	0.12	0.01	0.00	58.6	57.6
-50	0.00	0.01	0.04	0.33	1.31	2.79	4.35	5.37	5.84	5.82	5.31	4.27	2.71	1.25	0.32	0.04	0.01	0.00	39.7	38.5
-60	0.00	0.01	0.01	0.07	0.39	1.20	2.26	3.19	3.56	3.54	3.14	2.20	1.15	0.37	0.07	0.01	0.01	0.00	21.2	19.1
-70	0.00	0.00	0.01	0.02	0.04	0.16	0.49	0.96	1.20	1.19	0.93	0.47	0.15	0.04	0.02	0.01	0.00	0.00	5.68	2.29
-80	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.36	0.00
-90	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.36	0.00
Φ t	0.03	0.24	4.21	19.8	47.7	82.8	115	139	151	151	137	113	81.1	46.3	19.2	4.22	0.28	0.03	1112	---
Φ a	0.00	0.00	1.89	18.2	46.3	81.6	114	138	150	150	136	112	79.9	44.9	17.6	1.88	0.00	0.00	---	1092

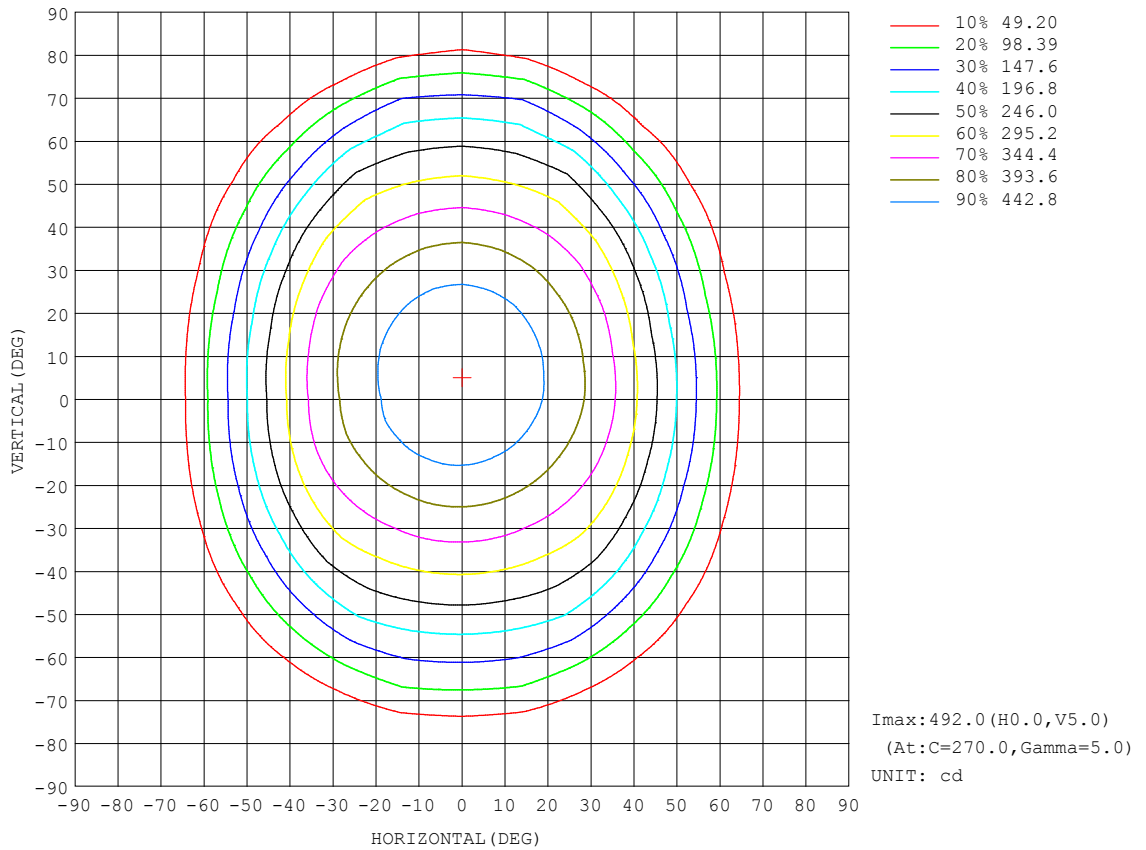
one-half-peak spread: U:53.2,D:54.1 , L:45.8,R:45.8 NEMA Beam Type: Type 6 x 7 (H x V)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:袁冠彬  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:120.1V I:0.1724A P:20.54W PF:0.9926 Freq:59.98Hz Lamp Flux:1111.99x1 lm		
NAME: Rowan-20"	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2018111904
MFR.: EVERFINE	SUR.:0.083*0.35	Shielding Angle:

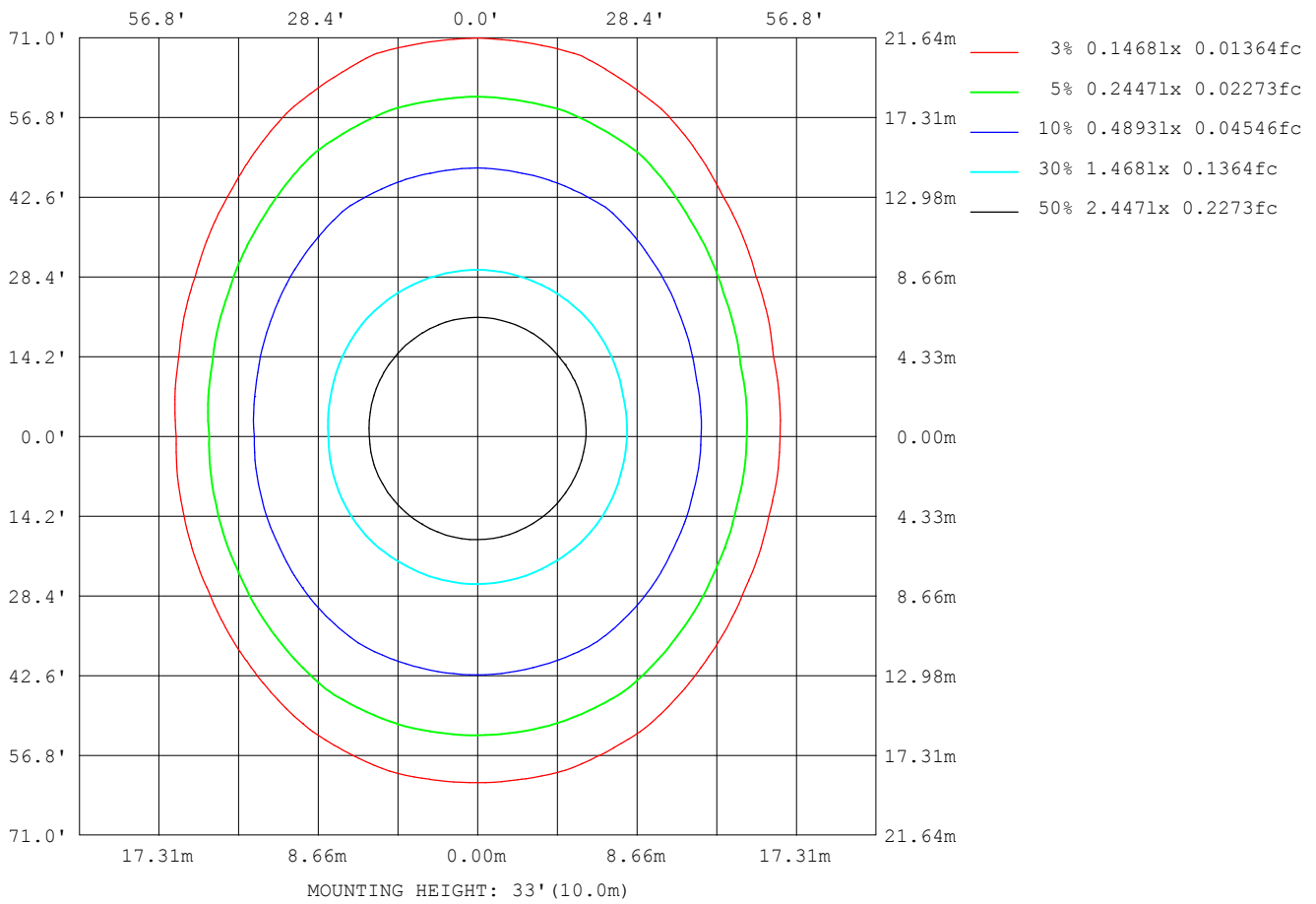


C Range: 0 - 360DEG  
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 Temperature:25.3DEG  
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 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

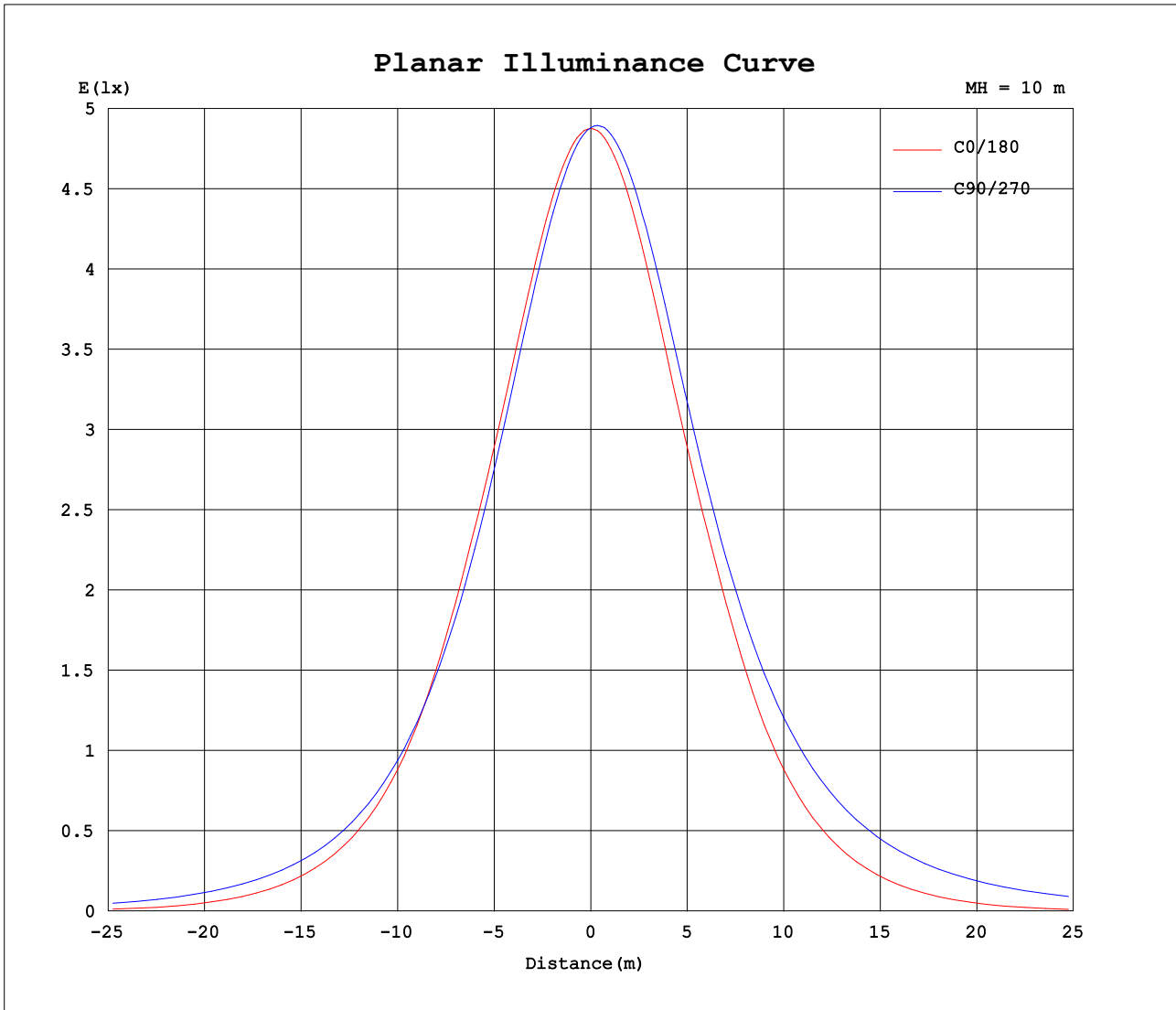
Test:U:120.1V I:0.1724A P:20.54W PF:0.9926 Freq:59.98Hz Lamp Flux:1111.99x1 lm		
NAME: Rowan-20"	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2018111904
MFR.: EVERFINE	SUR.:0.083*0.35	Shielding Angle:



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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

Planar Illuminance Curve

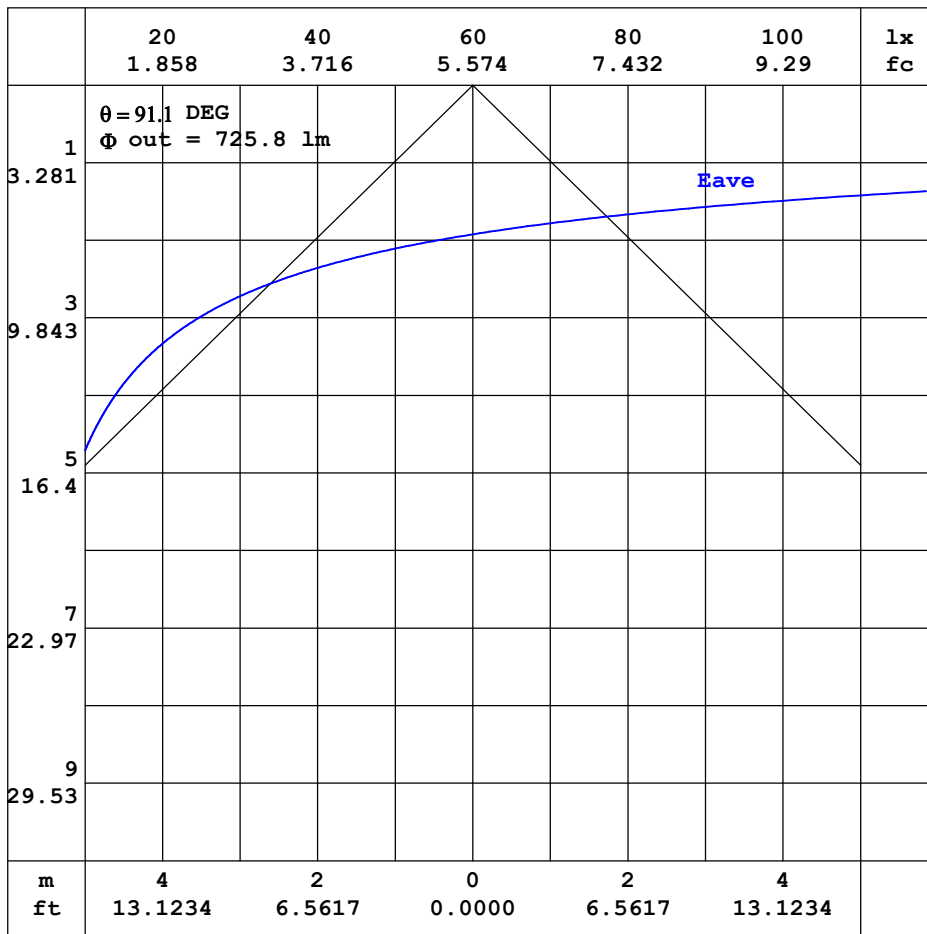


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 袁冠彬  
 Test Date: 2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.400m [K=1.0000]  
 Remarks:

AAI CURVES

Test:U:120.1V I:0.1724A P:20.54W PF:0.9926 Freq:59.98Hz Lamp Flux:1111.99x1 lm		
NAME: Rowan-20"	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2018111904
MFR.: EVERFINE	SUR.:0.083*0.35	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: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:袁冠彬  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.1724A P:20.54W PF:0.9926 Freq:59.98Hz Lamp Flux:1111.99x1 lm		
NAME: Rowan-20"	TYPE:3500K	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2018111904
MFR.: EVERFINE	SUR.:0.083*0.35	Shielding Angle:

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.41	0.44	0.47	0.49	0.53	0.56	0.60	0.65	0.71	0.77	0.82	0.86	0.91	0.96	1.01	1.06	1.07	1.07	1.08
-85	0.41	0.44	0.47	0.49	0.54	0.58	0.63	0.67	0.72	0.76	0.82	0.88	0.94	0.96	0.98	0.99	0.96	0.93	0.90
-80	0.41	0.44	0.47	0.51	0.58	0.64	0.70	0.76	0.81	0.86	0.93	0.99	1.05	1.65	2.92	4.61	6.16	7.56	8.74
-75	0.41	0.44	0.49	0.56	0.63	0.71	0.79	0.86	0.93	1.05	1.80	3.70	6.94	14.3	22.7	31.3	35.3	37.8	39.5
-70	0.41	0.44	0.52	0.60	0.70	0.80	0.89	1.06	2.01	4.51	10.5	20.2	32.2	45.6	59.1	71.8	76.7	78.9	79.8
-65	0.41	0.45	0.55	0.65	0.77	0.88	1.12	2.62	7.23	15.7	29.3	46.8	64.6	81.7	96.9	110	115	118	118
-60	0.41	0.46	0.57	0.70	0.84	1.05	2.52	7.30	18.5	35.3	55.8	78.5	100	120	135	146	153	156	157
-55	0.41	0.47	0.60	0.75	0.91	1.79	6.08	15.8	35.1	59.5	85.3	112	137	159	173	184	190	193	194
-50	0.41	0.48	0.63	0.80	1.06	3.65	12.3	29.1	55.1	85.2	115	145	172	196	211	219	226	230	231
-45	0.41	0.50	0.66	0.85	1.51	6.79	20.9	45.4	76.0	111	145	178	206	229	244	253	260	265	266
-40	0.41	0.51	0.69	0.89	2.45	11.0	31.4	62.4	97.9	136	173	209	239	260	275	286	294	299	300
-35	0.41	0.51	0.71	0.95	3.83	16.0	42.5	79.0	119	159	200	237	270	291	305	317	326	332	333
-30	0.41	0.52	0.74	1.04	5.56	21.9	53.5	94.5	138	181	223	263	296	317	333	346	357	363	364
-25	0.41	0.53	0.76	1.24	7.43	27.9	63.9	108	155	201	246	287	319	342	359	374	385	392	394
-20	0.41	0.53	0.77	1.42	9.38	33.3	73.3	120	169	218	266	308	341	364	383	399	411	419	420
-15	0.41	0.53	0.78	1.65	11.1	37.8	80.7	130	181	232	281	326	358	382	404	422	434	442	444
-10	0.41	0.54	0.79	1.81	12.3	41.2	86.0	137	190	242	294	340	372	398	420	439	454	462	464
-5	0.41	0.54	0.79	1.88	13.0	43.0	88.9	141	195	248	301	347	381	408	433	453	468	477	479
0	0.41	0.53	0.79	1.88	13.0	43.2	89.3	141	196	250	303	350	384	412	437	459	475	484	488
5	0.41	0.54	0.80	1.92	13.3	43.8	90.4	143	198	252	306	353	387	416	441	462	479	489	492
10	0.41	0.54	0.79	1.88	12.9	42.8	88.9	141	196	250	303	351	386	414	439	461	477	487	490
15	0.41	0.53	0.79	1.75	11.9	40.0	84.9	136	189	243	297	345	381	409	433	453	469	479	482
20	0.41	0.53	0.78	1.51	10.3	36.0	78.4	128	180	234	287	335	372	398	421	441	456	465	468
25	0.41	0.53	0.77	1.32	8.40	30.8	69.7	118	170	222	273	320	357	383	405	425	439	447	450
30	0.41	0.52	0.75	1.09	6.45	25.0	60.3	107	156	206	255	301	339	365	386	404	417	425	427
35	0.41	0.51	0.72	1.00	4.55	18.8	50.3	93.0	139	186	235	279	318	344	363	379	392	398	401
40	0.41	0.50	0.70	0.93	2.94	13.8	39.5	77.2	120	165	211	254	291	318	338	352	363	370	373
45	0.41	0.49	0.67	0.88	1.74	9.28	28.4	59.8	98.2	141	184	224	261	291	310	323	333	339	342
50	0.41	0.48	0.64	0.83	1.19	5.46	18.4	41.8	76.5	115	154	193	230	262	280	291	300	306	308
55	0.41	0.47	0.61	0.78	0.99	2.76	10.2	25.4	53.9	87.6	123	160	195	227	244	257	266	271	274
60	0.41	0.46	0.57	0.72	0.88	1.40	4.58	13.7	33.0	59.1	89.4	124	157	185	205	222	230	235	237
65	0.41	0.45	0.54	0.66	0.79	0.94	1.68	5.75	16.1	32.3	56.7	86.9	116	143	166	186	194	198	200
70	0.41	0.44	0.51	0.61	0.71	0.81	0.93	1.94	5.53	12.4	28.1	50.0	73.8	98.2	121	143	150	153	155
75	0.41	0.43	0.48	0.55	0.62	0.70	0.78	0.93	1.38	2.72	9.53	20.5	34.1	53.2	72.9	92.0	99.1	103	107
80	0.41	0.43	0.46	0.50	0.55	0.60	0.65	0.74	0.83	0.92	1.85	3.79	6.93	18.0	30.7	43.7	50.1	55.5	60.2
85	0.41	0.42	0.44	0.46	0.49	0.51	0.54	0.59	0.65	0.71	0.75	0.79	0.84	2.79	5.26	8.08	12.0	15.9	19.6
90	0.41	0.42	0.42	0.43	0.44	0.44	0.45	0.49	0.52	0.56	0.57	0.59	0.61	0.63	0.65	0.67	0.66	0.65	0.64

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γ Range: 0 - 90DEG  
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NAME: Rowan-20"	TYPE:3500K	WEIGHT:
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MFR.: EVERFINE	SUR.:0.083*0.35	Shielding Angle:

Table--2

UNIT: cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	1.06	1.04	1.02	0.98	0.94	0.90	0.85	0.79	0.74	0.69	0.64	0.58	0.55	0.51	0.48	0.47	0.47	0.46
-85	0.93	0.96	0.99	0.97	0.95	0.92	0.87	0.81	0.74	0.70	0.66	0.62	0.58	0.53	0.49	0.48	0.48	0.46
-80	7.31	5.68	3.98	2.55	1.50	1.05	0.99	0.92	0.85	0.80	0.74	0.69	0.63	0.58	0.52	0.51	0.49	0.46
-75	37.4	34.3	30.0	21.5	13.5	6.51	3.55	1.73	1.02	0.92	0.85	0.78	0.71	0.63	0.56	0.53	0.50	0.46
-70	78.4	75.7	70.3	57.5	43.8	30.6	19.2	10.0	4.41	1.97	1.04	0.88	0.79	0.70	0.61	0.55	0.51	0.46
-65	117	114	108	94.9	79.4	62.2	44.6	27.6	14.9	7.13	2.66	1.12	0.88	0.76	0.66	0.58	0.52	0.46
-60	155	152	145	133	118	97.7	75.6	53.0	33.4	17.7	7.36	2.64	1.07	0.83	0.71	0.61	0.53	0.46
-55	193	189	182	171	157	134	108	81.7	56.6	33.4	15.6	6.30	1.91	0.91	0.77	0.64	0.54	0.46
-50	229	224	218	208	193	169	141	111	81.6	52.5	28.0	12.4	3.93	1.11	0.82	0.68	0.56	0.46
-45	264	259	251	241	226	202	173	141	107	72.7	43.3	20.6	7.15	1.66	0.87	0.70	0.57	0.46
-40	298	292	283	272	257	234	204	169	131	94.1	59.7	30.4	11.3	2.78	0.92	0.74	0.58	0.46
-35	331	324	314	301	286	265	232	195	154	115	75.8	41.0	16.3	4.36	1.02	0.76	0.59	0.46
-30	362	354	343	329	313	291	258	218	176	133	90.9	51.5	22.1	6.31	1.17	0.79	0.60	0.46
-25	391	383	371	355	337	314	281	240	196	150	104	61.9	28.1	8.42	1.46	0.81	0.61	0.46
-20	417	408	396	378	359	335	303	260	213	164	116	71.6	33.7	10.6	1.75	0.83	0.61	0.46
-15	440	431	417	399	377	353	320	276	226	177	127	79.6	38.5	12.5	2.10	0.85	0.62	0.46
-10	460	450	435	416	393	367	334	289	239	187	135	85.7	42.3	14.0	2.35	0.86	0.62	0.46
-5	474	465	449	428	405	378	344	298	247	193	140	89.5	44.6	14.9	2.51	0.87	0.63	0.46
0	484	474	459	437	412	385	350	303	250	196	142	90.9	45.3	15.3	2.56	0.87	0.63	0.46
5	488	477	460	438	413	385	350	303	250	196	142	90.8	45.2	15.2	2.54	0.87	0.63	0.46
10	486	475	458	436	411	382	346	298	246	192	139	88.1	43.4	14.5	2.41	0.86	0.62	0.46
15	478	467	450	429	404	376	339	290	237	184	133	82.9	40.1	13.1	2.18	0.85	0.62	0.46
20	464	454	438	417	394	367	329	280	228	174	123	75.6	35.6	11.3	1.82	0.83	0.61	0.46
25	446	437	422	402	379	351	314	266	215	164	113	66.3	30.2	9.16	1.53	0.81	0.60	0.46
30	423	415	401	383	361	333	295	248	199	150	102	56.7	24.3	6.98	1.21	0.79	0.60	0.46
35	397	389	377	360	340	312	273	227	179	133	87.8	47.1	18.3	4.92	1.04	0.76	0.58	0.46
40	369	362	350	335	314	285	247	204	158	113	72.2	36.9	13.5	3.16	0.94	0.73	0.57	0.46
45	338	331	321	307	287	256	218	177	135	92.1	55.4	26.6	9.16	1.86	0.88	0.70	0.56	0.46
50	305	298	289	277	258	225	187	148	109	71.1	38.4	17.3	5.45	1.21	0.83	0.67	0.55	0.46
55	270	264	255	241	223	190	154	116	81.9	49.5	23.4	9.74	2.77	0.96	0.77	0.64	0.53	0.46
60	234	229	219	203	182	152	119	83.5	54.3	30.1	12.8	4.46	1.38	0.84	0.71	0.60	0.52	0.46
65	197	192	183	163	140	113	82.4	52.1	29.1	14.6	5.42	1.65	0.91	0.76	0.65	0.57	0.51	0.46
70	152	148	140	118	94.9	70.4	46.9	25.8	11.1	5.07	1.82	0.89	0.78	0.68	0.59	0.54	0.50	0.46
75	103	97.2	89.3	70.2	50.7	31.9	19.0	8.77	2.47	1.29	0.88	0.74	0.67	0.60	0.53	0.50	0.49	0.46
80	54.8	48.8	41.7	29.1	16.9	6.43	3.54	1.74	0.87	0.78	0.69	0.61	0.56	0.52	0.48	0.48	0.47	0.46
85	15.6	11.4	7.20	4.70	2.51	0.81	0.76	0.71	0.67	0.61	0.55	0.50	0.48	0.46	0.45	0.45	0.46	0.46
90	0.65	0.65	0.66	0.64	0.62	0.61	0.58	0.55	0.52	0.50	0.47	0.45	0.44	0.42	0.41	0.43	0.45	0.46

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:袁冠彬  
 Test Date:2018-11-19

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.400m [K=1.0000]  
 Remarks: