

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		1986.7 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	73.1V x 70.4H
	At 50% of I _{max}	37.1V x 37.2H
	At 90% of I _{max}	13.5V x 13.5H

Beam Flux	Total	999.8 lumens per klm.
	To 10% of I _{max}	873.2 lumens per klm.
	To 50% of I _{max}	461.3 lumens per klm.
	To 90% of I _{max}	79.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

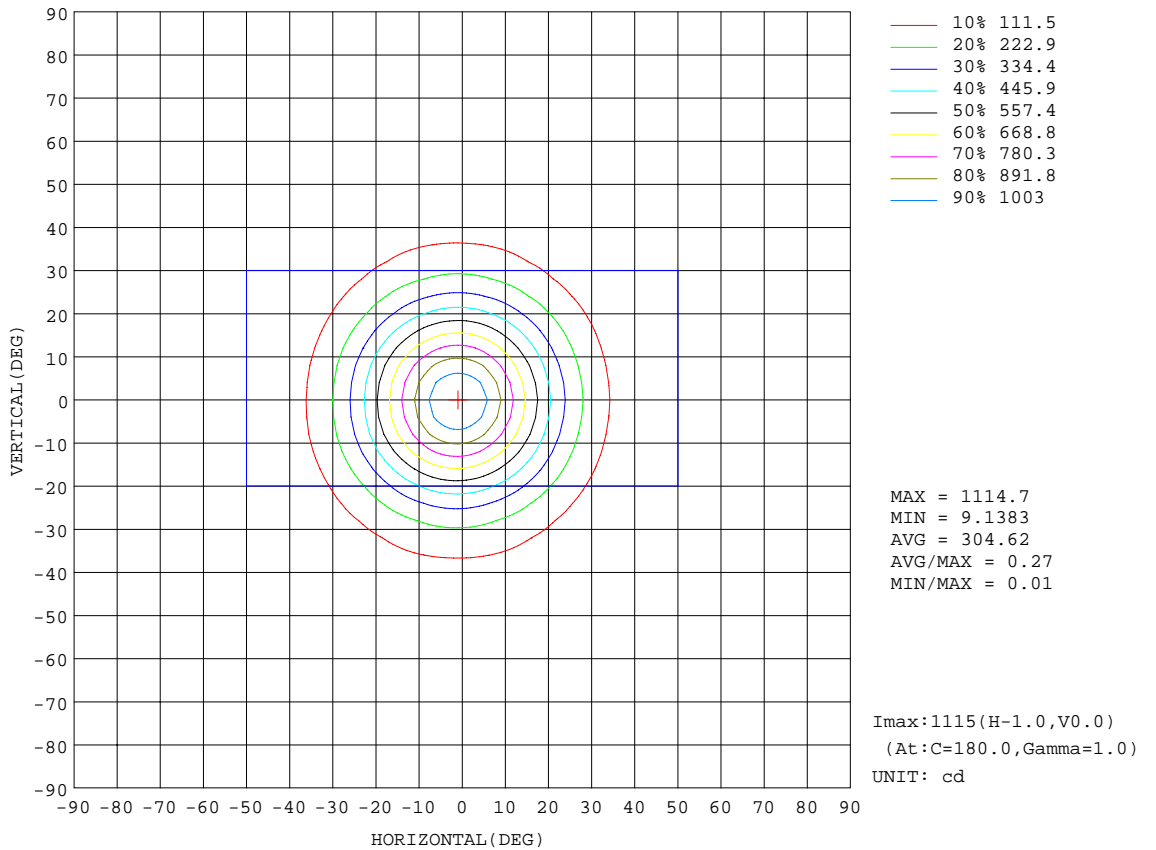
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC1
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.8365A P:20.08W PF:1.000 Lamp Flux:561.075x1 lm		
NAME: LED Pool Light	TYPE:24v	WEIGHT:
DIM.:	SPEC.:30°18P	SERIAL No.:201503006
MFR.: TPK	SUR.:	PROTECTION ANGLE:

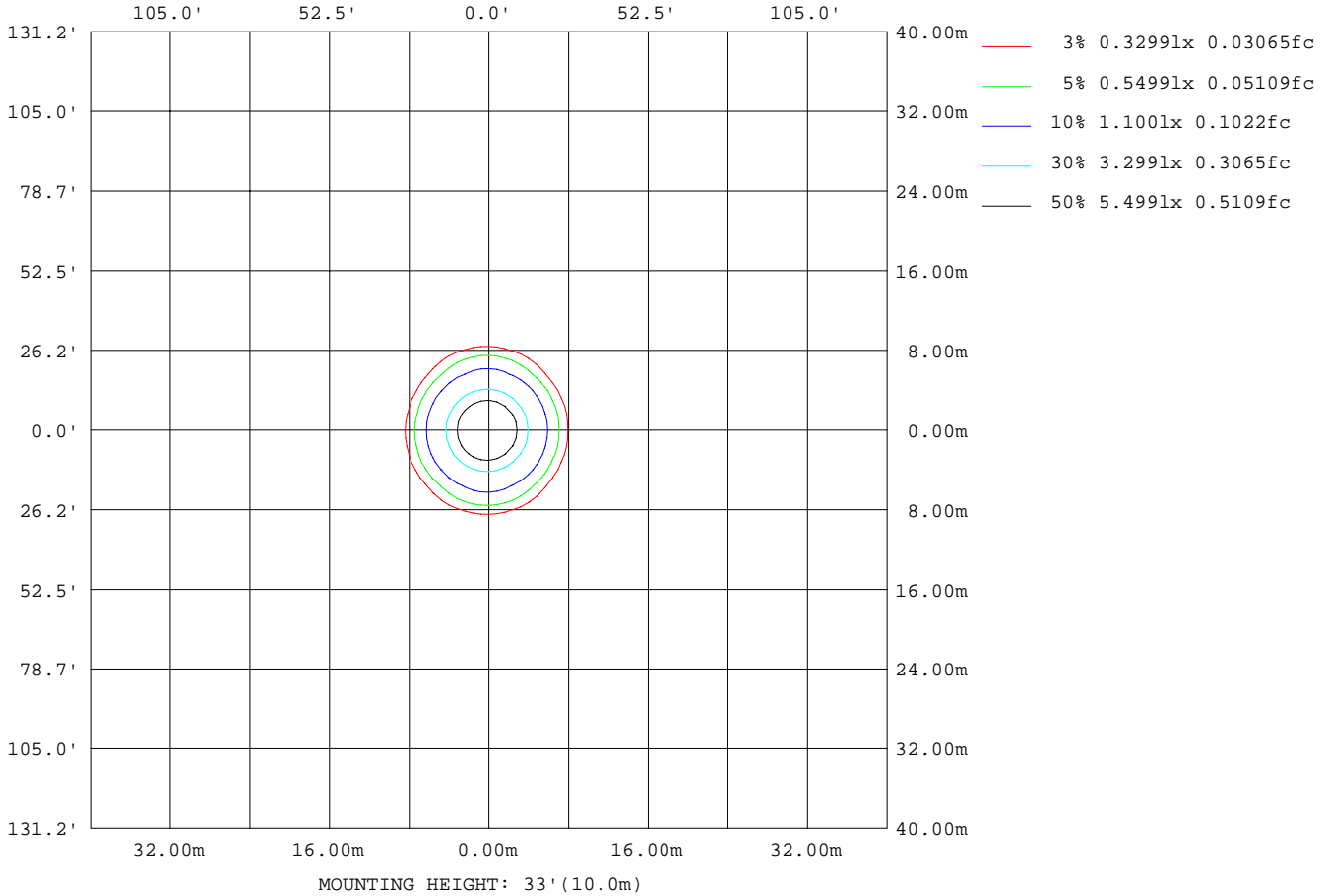


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC1
 Test Date:2015-03-04

V(B) Range:-60 - 60DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:8.100m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.8365A P:20.08W PF:1.000 Lamp Flux:561.075x1 lm		
NAME: LED Pool Light	TYPE:24v	WEIGHT:
DIM.:	SPEC.:30°18P	SERIAL No.:201503006
MFR.: TPK	SUR.:	PROTECTION ANGLE:



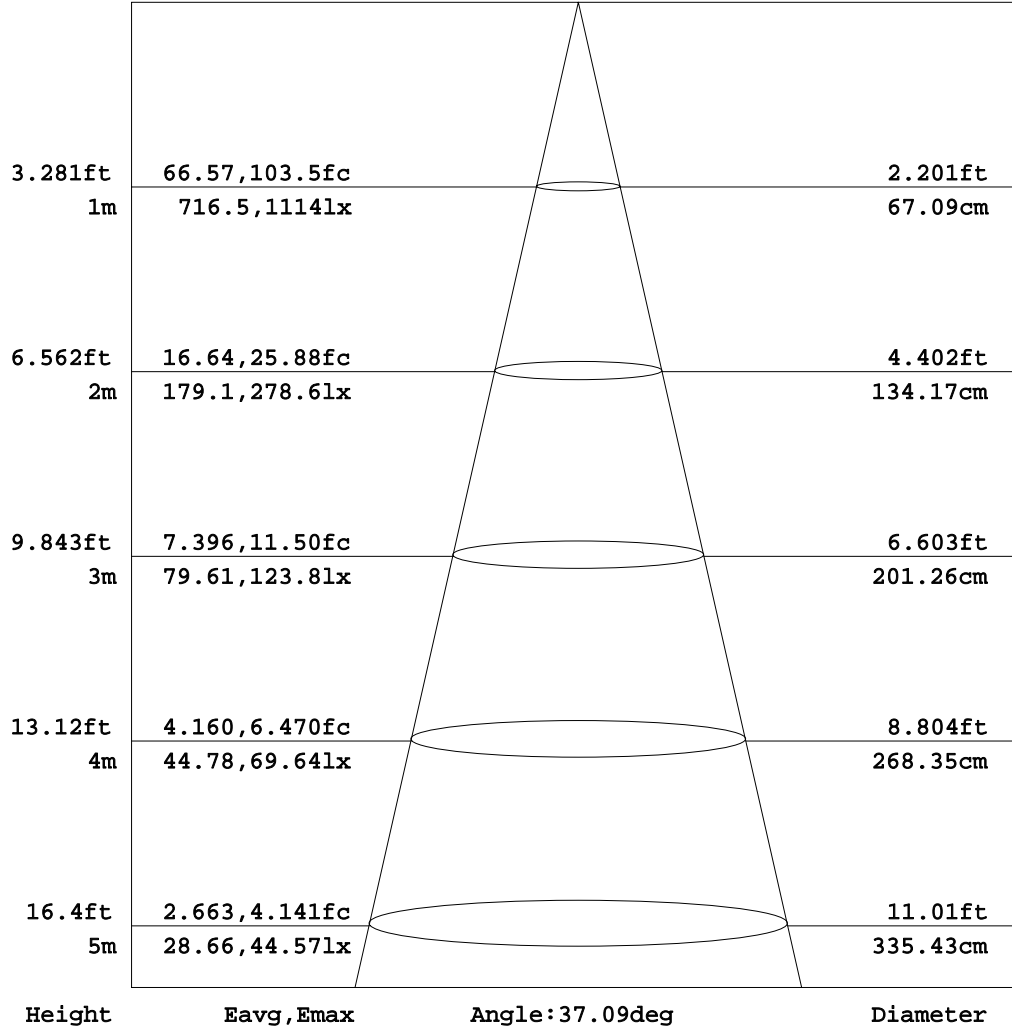
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC1
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.8365A P:20.08W PF:1.000 Lamp Flux:561.075x1 lm		
NAME: LED Pool Light	TYPE:24v	WEIGHT:
DIM.:	SPEC.:30°18P	SERIAL No.:201503006
MFR.: TPK	SUR.:	PROTECTION ANGLE:

Flux out:266.9 lm

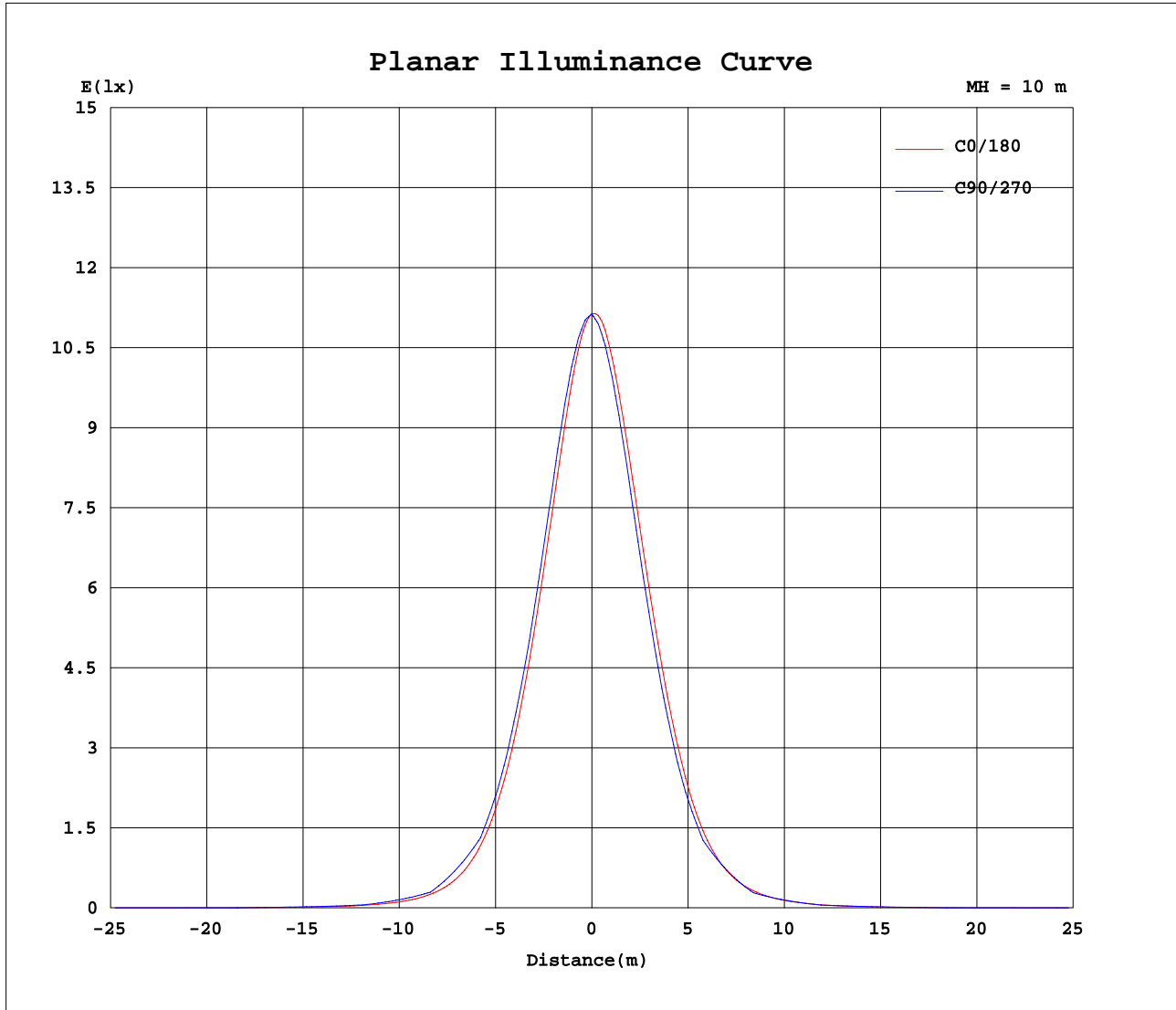


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC1
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC1
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.8365A P:20.08W PF:1.000 Lamp Flux:561.075x1 lm		
NAME: LED Pool Light	TYPE:24v	WEIGHT:
DIM.:	SPEC.:30°18P	SERIAL No.:201503006
MFR.: TPK	SUR.:	PROTECTION 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	0.00	0.00	0.00	0.07	0.37	0.69	1.08	1.53	2.13	2.78	3.48	4.10	4.84	5.58	6.12	6.55	6.92	7.09	7.09
-55	0.00	0.00	0.01	0.17	0.53	0.94	1.46	2.11	2.93	3.80	4.83	6.00	7.43	8.89	10.3	11.4	12.3	12.8	12.8
-50	0.00	0.00	0.03	0.33	0.78	1.33	2.03	2.99	4.13	5.35	6.85	8.84	11.3	13.8	16.4	18.7	20.4	21.5	21.4
-45	0.00	0.00	0.04	0.42	0.94	1.60	2.51	3.72	5.24	7.16	9.85	13.4	17.8	22.6	27.7	32.4	36.3	38.7	39.2
-40	0.00	0.00	0.07	0.55	1.18	2.02	3.24	4.82	6.90	9.88	14.3	20.2	27.4	35.8	44.5	53.0	60.2	64.6	65.8
-35	0.00	0.00	0.12	0.66	1.36	2.34	3.75	5.69	8.61	12.9	19.7	28.8	40.9	55.9	73.6	92.1	108	119	121
-30	0.00	0.00	0.20	0.82	1.62	2.80	4.52	7.00	11.2	17.5	27.8	41.6	61.1	86.2	117	151	181	200	204
-25	0.00	0.00	0.21	0.89	1.78	3.11	5.11	8.19	13.3	21.7	35.3	54.3	82.9	122	172	224	271	301	308
-20	0.00	0.00	0.30	1.01	1.98	3.50	5.81	9.62	16.1	27.5	46.2	75.0	120	187	271	364	445	498	508
-15	0.00	0.00	0.31	1.06	2.09	3.71	6.25	10.5	18.0	31.6	54.3	90.9	150	238	351	471	579	649	663
-10	0.00	0.00	0.35	1.11	2.18	3.94	6.75	11.7	20.5	36.6	64.5	112	191	310	462	623	769	875	902
-5	0.00	0.00	0.36	1.13	2.25	4.09	7.03	12.2	21.8	39.1	69.4	122	212	347	517	697	868	999	1031
0	0.00	0.00	0.38	1.16	2.27	4.17	7.16	12.5	22.5	40.2	71.5	128	223	367	547	742	929	1071	1113
5	0.00	0.00	0.35	1.14	2.27	4.18	7.13	12.5	22.3	39.6	69.8	124	217	355	530	718	894	1026	1062
10	0.00	0.00	0.34	1.11	2.19	4.01	6.81	11.7	20.6	36.1	62.6	108	187	304	454	613	755	855	882
15	0.00	0.00	0.31	1.07	2.13	3.87	6.53	11.1	19.2	33.0	56.0	94.6	160	257	381	513	630	707	727
20	0.00	0.00	0.28	1.02	1.97	3.53	5.89	9.72	16.2	27.0	44.2	71.3	115	180	261	351	430	481	496
25	0.00	0.00	0.22	0.93	1.83	3.28	5.43	8.81	14.3	23.2	37.0	57.9	89.8	136	194	256	312	348	358
30	0.00	0.00	0.20	0.83	1.63	2.84	4.60	7.21	11.1	17.2	26.5	39.4	57.6	82.0	112	144	172	191	196
35	0.00	0.00	0.14	0.72	1.47	2.53	4.07	6.34	9.55	14.3	21.5	31.4	45.1	62.8	84.1	107	127	140	143
40	0.00	0.00	0.07	0.56	1.23	2.07	3.28	5.04	7.16	9.95	14.0	19.5	26.2	34.2	42.7	51.3	58.6	63.0	63.6
45	0.00	0.00	0.05	0.46	1.05	1.79	2.79	4.24	6.03	8.18	11.2	15.2	20.0	25.8	31.8	37.8	42.7	45.8	46.3
50	0.00	0.00	0.02	0.31	0.77	1.36	2.05	3.03	4.34	5.53	6.93	8.69	10.8	13.1	15.4	17.4	19.0	20.1	20.4
55	0.00	0.00	0.01	0.21	0.60	1.08	1.65	2.41	3.42	4.42	5.51	6.81	8.30	9.93	11.5	12.9	14.0	14.8	15.0
60	0.00	0.00	0.00	0.07	0.34	0.65	1.06	1.48	2.04	2.77	3.37	3.99	4.54	5.13	5.68	6.06	6.48	6.74	6.81
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC1
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.8365A P:20.08W PF:1.000 Lamp Flux:561.075x1 lm		
NAME: LED Pool Light	TYPE:24v	WEIGHT:
DIM.:	SPEC.:30°18P	SERIAL No.:201503006
MFR.: TPK	SUR.:	PROTECTION 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	6.92	6.53	6.03	5.47	4.81	4.36	3.58	2.96	2.34	1.68	1.20	0.84	0.51	0.22	0.00	0.00	0.00	0.00	
-55	12.3	11.4	10.4	9.13	7.77	6.58	5.31	4.26	3.37	2.52	1.74	1.17	0.74	0.35	0.06	0.00	0.00	0.00	
-50	20.4	18.8	16.9	14.6	12.2	9.91	7.89	6.20	4.92	3.79	2.56	1.68	1.07	0.54	0.14	0.00	0.00	0.00	
-45	37.4	34.0	29.5	24.5	19.7	15.3	11.6	8.62	6.44	4.80	3.32	2.15	1.35	0.73	0.24	0.00	0.00	0.00	
-40	62.8	56.8	48.4	39.3	31.0	23.4	17.2	12.2	8.71	6.31	4.46	2.87	1.76	1.00	0.39	0.00	0.00	0.00	
-35	115	101	82.9	64.3	48.0	34.5	24.2	16.6	11.2	7.67	5.23	3.37	2.05	1.15	0.48	0.02	0.00	0.00	
-30	192	167	135	102	73.5	51.1	34.6	23.0	15.0	9.72	6.39	4.12	2.47	1.38	0.61	0.04	0.00	0.00	
-25	288	248	197	146	100	67.0	43.7	28.3	17.9	11.3	7.17	4.58	2.74	1.51	0.70	0.10	0.00	0.00	
-20	474	406	321	230	155	97.3	60.0	36.9	22.5	13.5	8.27	5.14	3.17	1.60	0.74	0.08	0.00	0.00	
-15	618	527	414	296	196	121	71.3	42.4	25.3	14.9	8.85	5.41	3.25	1.67	0.77	0.12	0.00	0.00	
-10	834	704	549	391	255	155	88.6	50.6	29.4	16.8	9.72	5.81	3.41	1.76	0.80	0.12	0.00	0.00	
-5	950	793	613	435	282	170	96.0	54.1	31.1	17.6	10.1	5.96	3.49	1.81	0.83	0.14	0.00	0.00	
0	1028	853	655	465	302	181	102	56.8	32.4	18.2	10.3	6.12	3.58	1.84	0.84	0.14	0.00	0.00	
5	984	820	631	448	291	175	98.9	55.7	31.7	17.8	10.1	6.04	3.52	1.83	0.84	0.15	0.00	0.00	
10	826	696	543	386	253	154	88.7	51.1	29.4	16.5	9.60	5.82	3.40	1.77	0.80	0.12	0.00	0.00	
15	681	580	454	325	214	131	77.7	45.7	26.6	15.2	9.04	5.50	3.24	1.70	0.77	0.13	0.00	0.00	
20	465	399	313	227	154	97.3	60.2	36.9	22.1	13.0	8.06	4.96	2.97	1.57	0.69	0.08	0.00	0.00	
25	336	289	229	168	115	75.8	48.3	30.4	18.7	11.4	7.14	4.50	2.70	1.47	0.66	0.09	0.00	0.00	
30	185	161	130	98.6	71.9	49.8	33.6	22.3	14.2	9.14	5.94	3.85	2.33	1.27	0.54	0.04	0.00	0.00	
35	135	118	96.4	74.4	55.1	38.9	26.8	18.0	11.8	7.81	5.23	3.46	2.07	1.13	0.47	0.03	0.00	0.00	
40	60.4	54.2	46.3	38.0	30.0	22.6	16.6	11.7	8.14	5.82	4.17	2.88	1.67	0.93	0.36	0.01	0.00	0.00	
45	44.2	40.0	34.5	28.6	22.9	17.6	13.1	9.40	6.75	4.92	3.51	2.38	1.41	0.77	0.27	0.01	0.00	0.00	
50	19.9	18.6	16.8	14.5	12.2	9.93	7.73	5.95	4.66	3.56	2.51	1.63	1.03	0.52	0.12	0.00	0.00	0.00	
55	14.7	13.8	12.5	11.0	9.36	7.68	6.09	4.76	3.73	2.84	2.01	1.33	0.82	0.39	0.08	0.00	0.00	0.00	
60	6.73	6.43	6.06	5.63	5.09	4.31	3.62	2.98	2.34	1.76	1.26	0.86	0.50	0.20	0.01	0.00	0.00	0.00	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QCl
Test Date:2015-03-04

V(B) Range:-60 - 60DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:8.100m [K=1.0000]
Remarks: