

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		3076.0 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>	56.9V x 56.0H 28.1V x 27.9H 10.4V x 10.5H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	999.9 lumens per klm. 814.9 lumens per klm. 409.1 lumens per klm. 73.4 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

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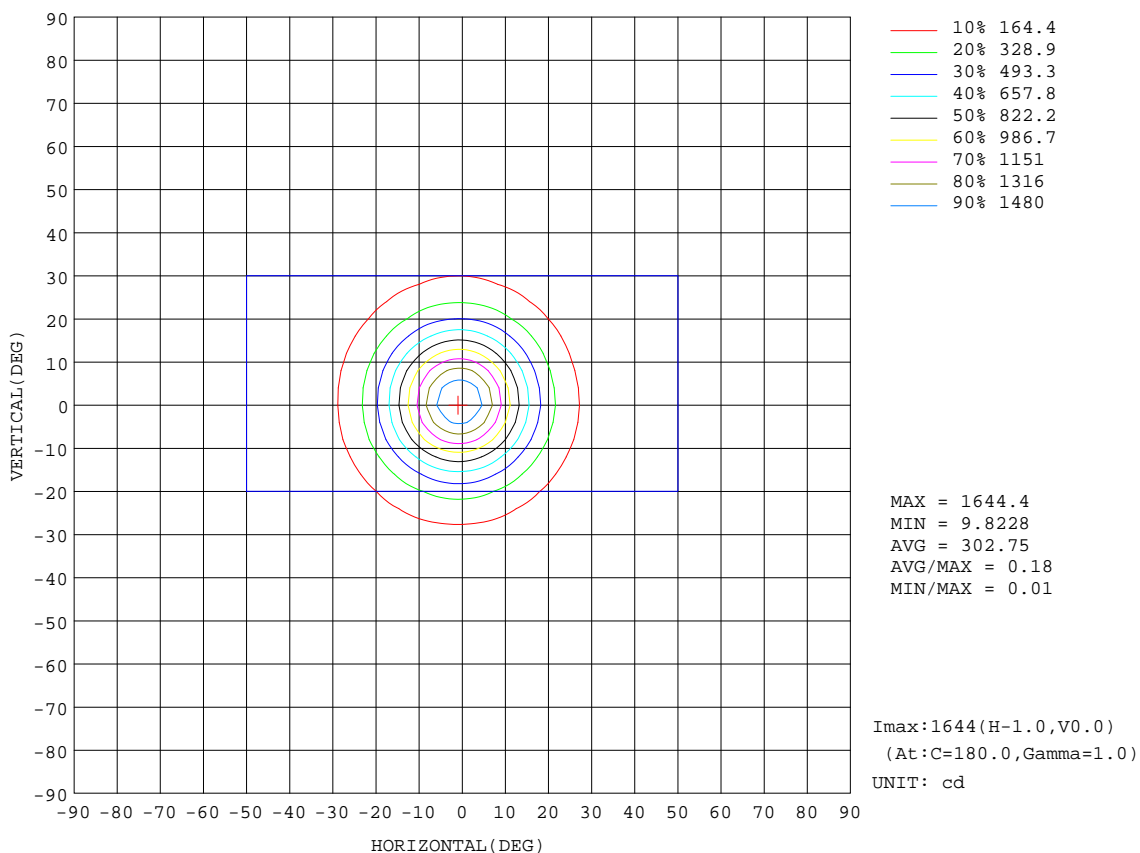
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC1  
Test Date:2015-03-30

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:0.8359A P:20.06W PF:1.000 Lamp Flux:534.605x1 lm		
NAME: LED Pool Light	TYPE:24V	WEIGHT:
DIM.:	SPEC.:40°	SERIAL No.:201503106
MFR.: TPK	SUR.:	PROTECTION ANGLE:

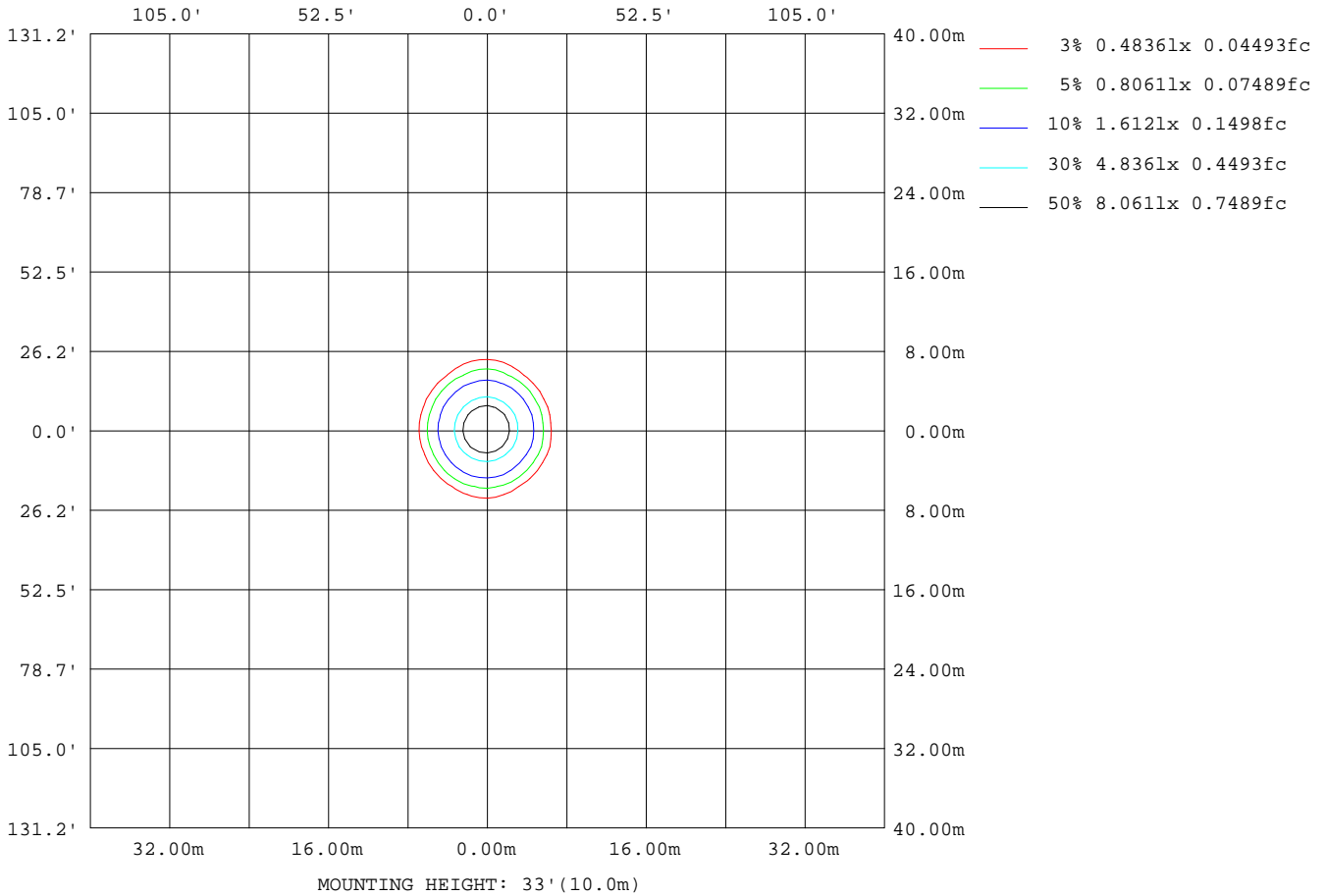


**H( $\beta$ ) Range:**-90 - 90DEG  
**H( $\beta$ ) Interval:** 1.0DEG  
**Test Speed:** HIGH  
**Temperature:**25.3DEG  
**Operators:**QC1  
**Test Date:**2015-03-30

**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:0.8359A P:20.06W PF:1.000 Lamp Flux:534.605x1 lm		
NAME: LED Pool Light	TYPE:24V	WEIGHT:
DIM.:	SPEC.:40°	SERIAL No.:201503106
MFR.: TPK	SUR.:	PROTECTION ANGLE:

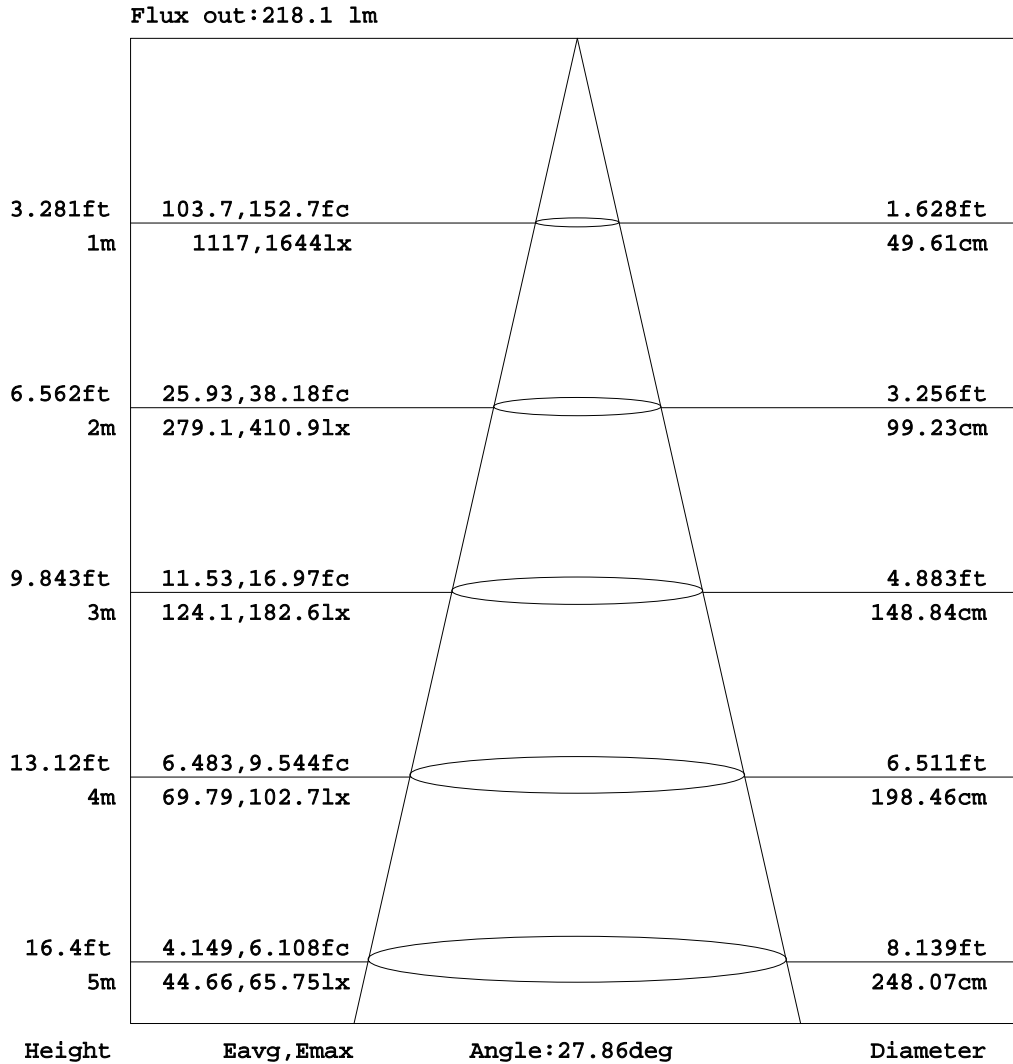


**H( $\beta$ ) Range:** -90 - 90DEG  
**H( $\beta$ ) Interval:** 1.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3DEG  
**Operators:** QCl  
**Test Date:** 2015-03-30

**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:0.8359A P:20.06W PF:1.000 Lamp Flux:534.605x1 lm		
NAME: LED Pool Light	TYPE:24V	WEIGHT:
DIM.:	SPEC.:40°	SERIAL No.:201503106
MFR.: TPK	SUR.:	PROTECTION ANGLE:

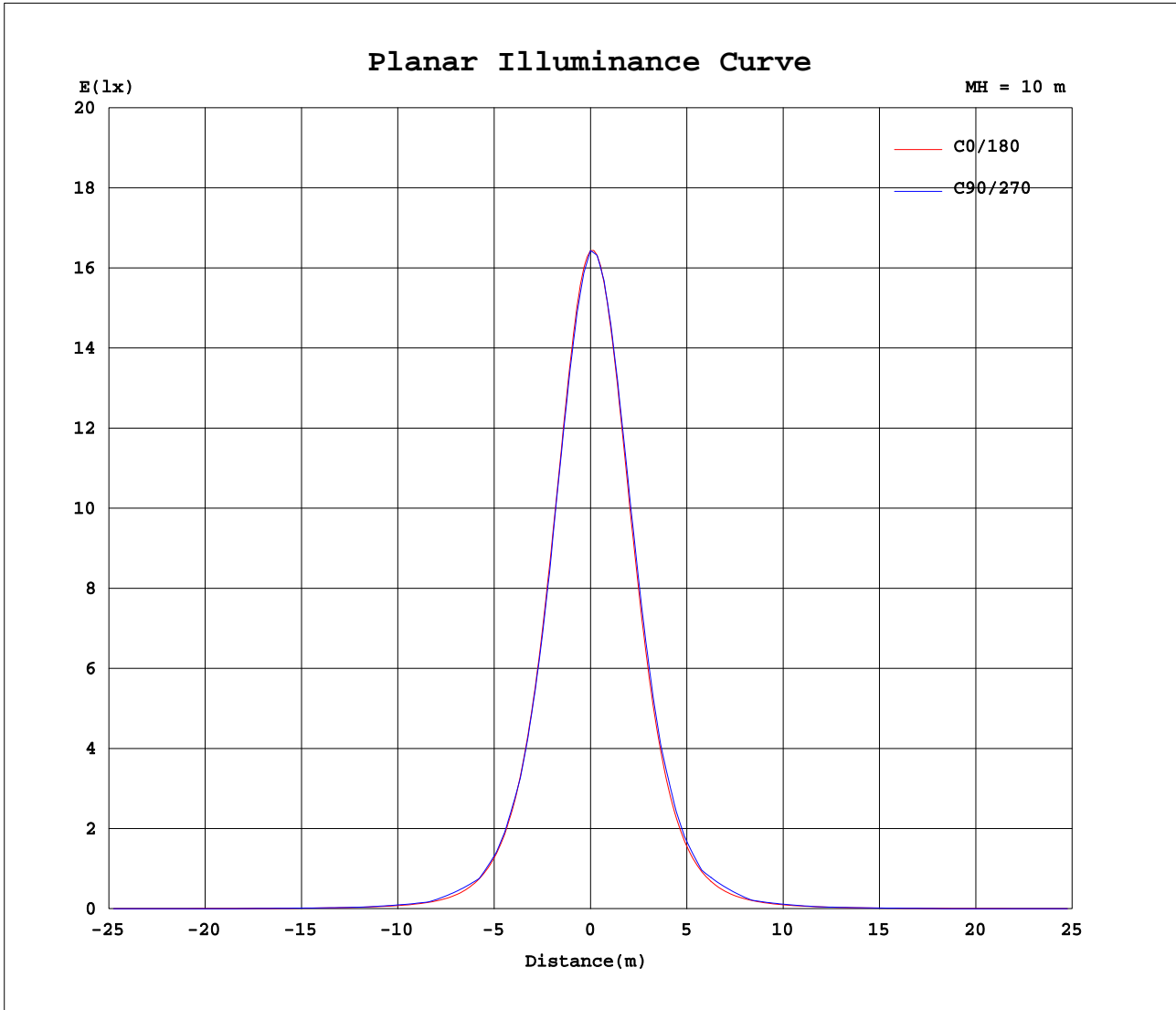


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC1  
Test Date:2015-03-30

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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC1  
Test Date:2015-03-30

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:0.8359A P:20.06W PF:1.000 Lamp Flux:534.605x1 lm		
NAME: LED Pool Light	TYPE:24V	WEIGHT:
DIM.:	SPEC.:40°	SERIAL No.:201503106
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	0.15	0.56	0.98	1.46	2.04	2.69	3.44	4.07	4.66	5.25	5.81	6.26	6.60	6.89	7.03	7.07
-55	0.00	0.00	0.01	0.31	0.80	1.35	1.99	2.79	3.72	4.63	5.50	6.42	7.36	8.24	8.98	9.60	10.1	10.5	10.6
-50	0.00	0.00	0.02	0.55	1.17	1.89	2.79	3.91	5.27	6.42	7.66	9.07	10.5	11.9	13.0	14.1	15.0	15.7	15.8
-45	0.00	0.00	0.09	0.69	1.40	2.28	3.40	4.81	6.39	7.95	9.74	11.8	14.1	16.5	19.0	21.3	23.3	24.6	24.9
-40	0.00	0.00	0.20	0.90	1.76	2.87	4.31	6.17	8.08	10.2	12.9	15.9	19.4	23.4	27.8	32.1	35.7	37.9	38.4
-35	0.00	0.00	0.28	1.05	2.00	3.25	4.91	7.02	9.35	12.1	15.8	20.4	26.4	34.0	43.3	53.1	62.1	68.1	69.7
-30	0.00	0.00	0.41	1.26	2.35	3.82	5.82	8.31	11.3	15.0	20.1	27.0	36.8	49.9	66.4	84.7	102	113	117
-25	0.00	0.00	0.45	1.37	2.56	4.19	6.44	9.22	12.6	17.2	23.9	33.8	48.3	69.5	97.9	131	165	189	196
-20	0.00	0.00	0.54	1.52	2.83	4.66	7.14	10.3	14.5	20.4	29.9	45.0	69.3	108	164	237	315	376	394
-15	0.00	0.00	0.58	1.60	3.00	4.96	7.59	11.0	15.7	22.7	34.3	53.8	87.0	143	229	348	480	585	615
-10	0.00	0.00	0.59	1.62	3.36	5.11	7.88	11.7	17.2	25.7	40.4	67.4	117	204	349	562	807	1008	1067
-5	0.00	0.00	0.59	1.64	2.88	5.24	8.12	12.1	17.9	27.2	43.7	74.4	133	238	421	693	1017	1286	1372
0	0.00	0.00	0.61	1.67	3.17	5.30	8.20	12.2	18.3	28.1	45.7	78.7	143	264	476	798	1190	1531	1643
5	0.00	0.00	0.60	1.66	3.18	5.31	8.19	12.1	18.1	27.9	45.2	78.0	141	259	464	775	1149	1468	1580
10	0.00	0.00	0.59	1.63	3.10	5.17	7.90	11.7	17.2	26.2	41.6	70.1	123	218	379	618	902	1134	1211
15	0.00	0.00	0.56	1.58	3.03	5.10	7.69	11.2	16.2	24.5	38.0	62.1	106	181	303	479	683	849	902
20	0.00	0.00	0.50	1.49	2.81	4.76	7.11	10.2	14.4	20.9	31.4	48.5	77.1	123	192	283	386	469	495
25	0.00	0.00	0.44	1.39	2.66	4.44	6.67	9.47	13.2	18.8	27.1	40.1	61.0	92.6	138	195	256	304	318
30	0.00	0.00	0.39	1.26	2.36	3.84	5.78	8.15	11.2	15.3	21.0	29.0	40.4	56.4	77.6	102	126	144	149
35	0.00	0.00	0.31	1.12	2.14	3.48	5.25	7.36	9.95	13.4	18.0	24.3	32.8	44.4	59.3	76.2	92.5	105	108
40	0.00	0.00	0.20	0.92	1.80	2.95	4.46	6.18	8.11	10.5	13.6	17.2	21.4	26.3	31.9	37.7	42.9	46.5	47.2
45	0.00	0.00	0.13	0.79	1.58	2.57	3.86	5.37	7.05	9.00	11.4	14.4	17.6	21.2	25.2	29.2	32.8	35.3	35.6
50	0.00	0.00	0.03	0.59	1.25	2.00	2.98	4.15	5.46	6.72	8.20	10.0	11.8	13.5	15.1	16.6	17.7	18.4	18.3
55	0.00	0.00	0.02	0.44	1.01	1.66	2.46	3.42	4.50	5.57	6.77	8.18	9.59	10.9	12.1	13.1	13.9	14.4	14.3
60	0.00	0.00	0.00	0.21	0.67	1.14	1.68	2.32	3.05	3.85	4.64	5.40	6.25	6.96	7.50	7.93	8.21	8.31	8.25
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:2015-03-30

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:0.8359A P:20.06W PF:1.000 Lamp Flux:534.605x1 lm		
NAME: LED Pool Light	TYPE:24V	WEIGHT:
DIM.:	SPEC.:40°	SERIAL No.:201503106
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	7.03	6.82	6.49	6.06	5.50	4.82	4.06	3.27	2.56	1.88	1.33	0.89	0.55	0.24	0.00	0.00	0.00	0.00	
-55	10.4	9.95	9.32	8.55	7.66	6.66	5.61	4.53	3.59	2.71	1.92	1.27	0.78	0.38	0.07	0.00	0.00	0.00	
-50	15.5	14.6	13.6	12.3	10.9	9.43	7.94	6.43	5.13	3.96	2.79	1.83	1.11	0.60	0.16	0.00	0.00	0.00	
-45	24.0	22.3	19.9	17.4	14.8	12.5	10.3	8.20	6.44	4.90	3.53	2.33	1.42	0.77	0.28	0.00	0.00	0.00	
-40	36.9	33.7	29.5	25.0	20.7	17.0	13.7	10.9	8.40	6.32	4.64	3.08	1.90	1.04	0.45	0.00	0.00	0.00	
-35	65.9	57.8	47.9	38.1	29.6	22.8	17.5	13.3	10.0	7.45	5.37	3.60	2.22	1.21	0.53	0.02	0.00	0.00	
-30	109	94.1	75.6	57.8	42.9	31.6	23.2	17.0	12.5	9.14	6.48	4.38	2.70	1.47	0.64	0.04	0.00	0.00	
-25	181	150	115	83.4	58.3	40.6	28.3	19.9	14.2	10.2	7.18	4.87	2.99	1.65	0.74	0.11	0.00	0.00	
-20	359	287	207	140	90.9	58.2	37.8	25.0	17.0	11.9	8.26	5.59	3.41	1.89	0.83	0.12	0.00	0.00	
-15	555	434	300	192	119	72.1	44.4	28.2	18.7	12.8	8.83	5.94	3.65	2.01	0.91	0.18	0.00	0.00	
-10	957	731	486	293	170	97.1	55.7	32.9	20.9	13.8	9.41	6.30	3.94	2.17	0.97	0.19	0.00	0.00	
-5	1216	912	595	350	195	108	60.0	34.7	21.8	14.3	9.68	6.48	4.04	2.23	1.02	0.22	0.00	0.00	
0	1454	1074	691	399	216	115	62.6	36.1	22.5	14.8	9.97	6.65	4.13	2.27	1.03	0.21	0.00	0.00	
5	1397	1036	668	385	208	111	60.7	35.4	22.2	14.7	9.93	6.61	4.11	2.26	1.04	0.22	0.00	0.00	
10	1084	822	542	321	177	97.1	55.0	33.0	21.2	14.2	9.71	6.46	4.02	2.20	0.99	0.19	0.00	0.00	
15	810	623	421	255	146	82.9	48.8	30.3	19.8	13.5	9.36	6.21	3.87	2.12	0.97	0.19	0.00	0.00	
20	452	357	252	163	101	62.1	39.1	25.7	17.5	12.3	8.67	5.79	3.60	1.96	0.88	0.13	0.00	0.00	
25	292	236	172	116	76.1	49.5	32.7	22.3	15.7	11.3	8.00	5.35	3.34	1.81	0.82	0.13	0.00	0.00	
30	138	117	90.5	66.9	48.2	34.3	24.6	17.9	13.2	9.82	7.04	4.72	2.95	1.57	0.68	0.04	0.00	0.00	
35	101	85.9	68.0	51.6	38.2	28.0	20.7	15.4	11.6	8.73	6.29	4.23	2.63	1.40	0.59	0.02	0.00	0.00	
40	44.6	40.0	34.3	28.7	23.3	18.6	14.9	11.8	9.20	7.10	5.18	3.49	2.13	1.14	0.46	0.00	0.00	0.00	
45	33.8	30.6	26.6	22.6	18.8	15.3	12.4	9.97	7.88	6.12	4.44	2.98	1.80	0.95	0.35	0.00	0.00	0.00	
50	17.7	16.6	15.1	13.5	12.0	10.4	8.79	7.22	5.91	4.66	3.33	2.20	1.30	0.65	0.18	0.00	0.00	0.00	
55	13.8	13.0	12.0	10.8	9.62	8.38	7.11	5.90	4.82	3.74	2.65	1.73	1.02	0.50	0.11	0.00	0.00	0.00	
60	8.00	7.68	7.22	6.66	6.06	5.34	4.60	3.91	3.19	2.35	1.63	1.04	0.61	0.26	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	
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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC1  
Test Date:2015-03-30

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: