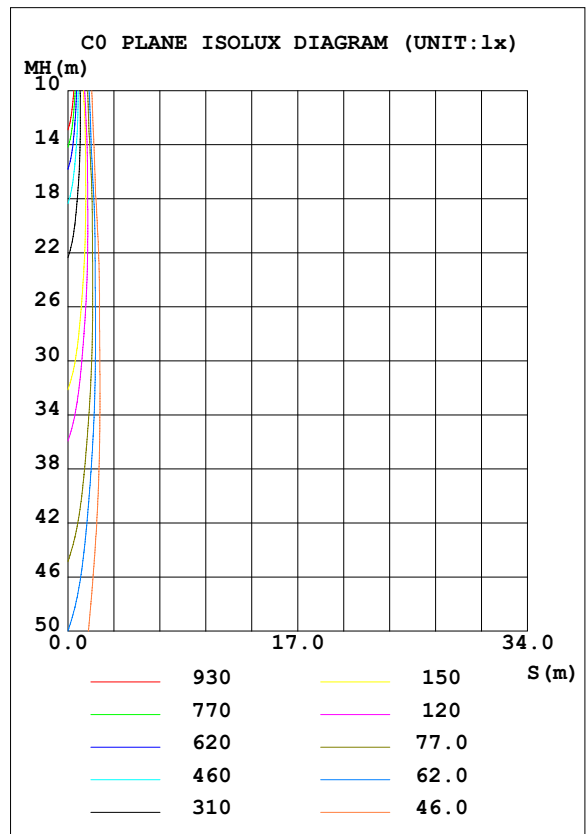
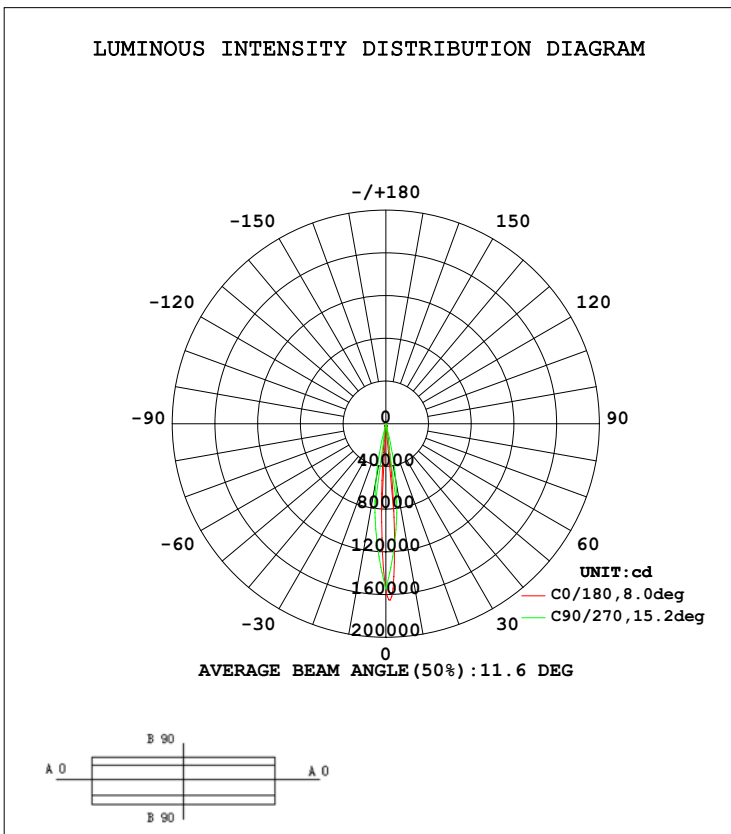


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.95 lm/W
MODEL	BRIDEGLUX 6500K	I _{max} (cd)	165131	S/MH (C0/180)	0.17	
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.26	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	8435.3	η UP, DN (C0-180)	0.0, 48.8	
NOMINAL FLUX (lm)	8435.33	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.1	η down (%)	100.0	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φone	Φtotal	%lum, lamp
5	330.5	501.0	1040	993.3	879.5	995.6	1043	502.9	0- 5	2586	2586	30.7,30.7
10	48.09	72.44	530.3	205.7	97.02	209.4	536.7	75.04	5- 10	3011	5597	66.4,66.4
15	21.43	24.67	20.71	34.81	28.72	38.94	30.27	25.59	10- 15	1269	6866	81.4,81.4
20	19.77	20.95	15.83	18.07	18.51	20.04	24.68	19.95	15- 20	370.2	7236	85.8,85.8
25	26.30	18.20	10.96	18.41	25.99	16.52	19.09	20.20	20- 25	400.0	7636	90.5,90.5
30	5.469	11.87	6.080	15.08	15.93	12.31	13.50	15.52	25- 30	375.5	8012	95,95
35	2.416	4.129	4.335	7.570	3.142	6.649	9.347	6.789	30- 35	194.5	8206	97.3,97.3
40	1.348	1.329	2.591	1.659	1.737	1.969	5.195	1.600	35- 40	101.8	8308	98.5,98.5
45	0.7628	0.8237	0.8460	0.9882	1.005	1.227	1.042	0.9567	40- 45	57.88	8366	99.2,99.2
50	0.3701	0.4199	0.6029	0.4925	0.4916	0.6454	0.7380	0.4826	45- 50	28.89	8395	99.5,99.5
55	0.1486	0.1388	0.3599	0.1573	0.1771	0.1987	0.4339	0.1660	50- 55	15.94	8411	99.7,99.7
60	0.1194	0.1141	0.1169	0.1284	0.1309	0.1475	0.1298	0.1335	55- 60	9.022	8420	99.8,99.8
65	0.1026	0.0934	0.0937	0.1070	0.1123	0.1153	0.1019	0.1084	60- 65	5.751	8425	99.9,99.9
70	0.0639	0.0702	0.0705	0.0817	0.0839	0.0874	0.0740	0.0819	65- 70	4.527	8430	99.9,99.9
75	0.0396	0.0464	0.0473	0.0533	0.0508	0.0564	0.0462	0.0508	70- 75	3.140	8433	100,100
80	0.0201	0.0228	0	0.0248	0.0278	0.0243	0	0.0211	75- 80	1.716	8435	100,100
85	0.0056	0	0	0	0.0112	0	0	0	80- 85	0.4300	8435	100,100
90	0.0018	0	0	0	0.0018	0	0	0	85- 90	0.0408	8435	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY: 200cd								UNIT: lm			

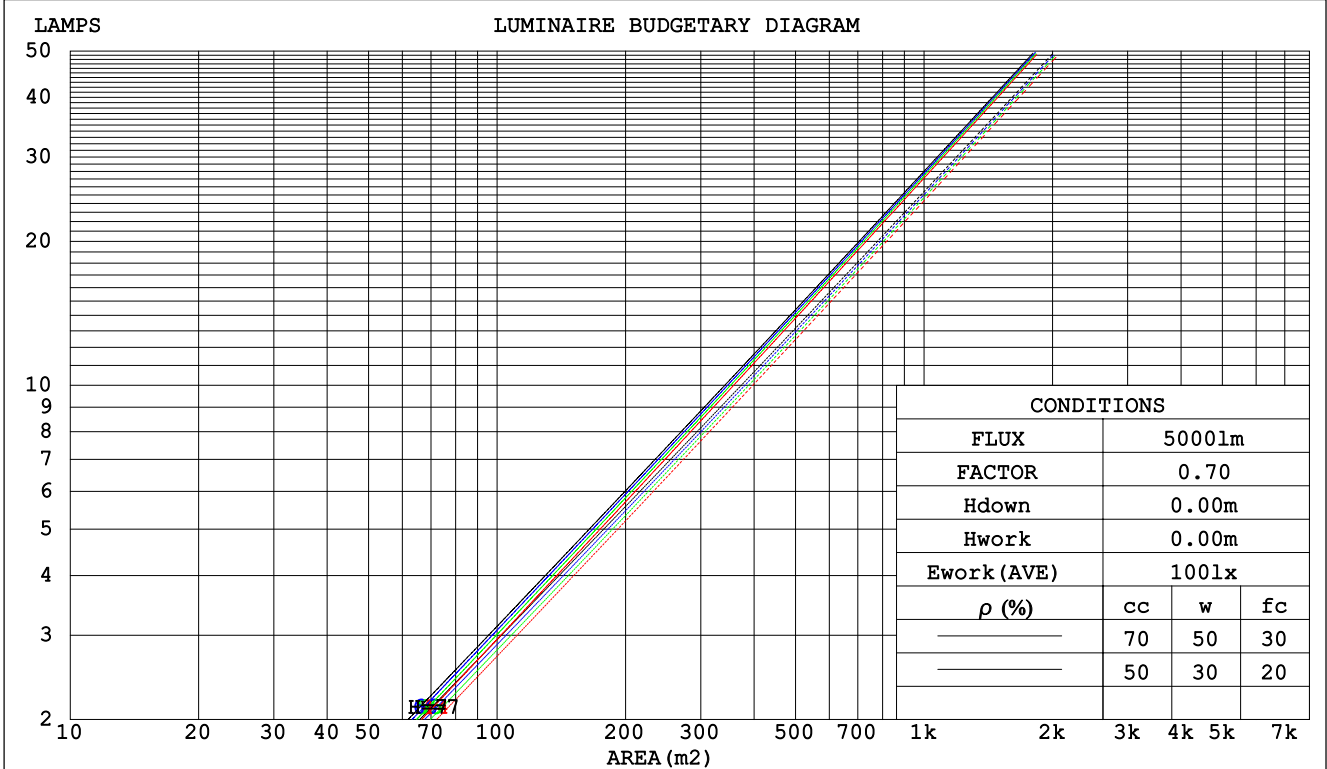
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.14	1.12	1.11	1.12	1.10	1.09	1.08	1.07	1.06	1.04	1.03	1.03	1.01	1.00	.00	.98
2.0	1.10	1.07	1.05	1.08	1.06	1.04	1.05	1.03	1.02	1.02	1.01	.99	.99	.98	.97	.96
3.0	1.06	1.03	1.01	1.05	1.02	.00	1.02	1.00	.98	1.00	.98	.97	.98	.97	.95	.94
4.0	1.03	.00	.97	1.02	.99	.97	1.00	.98	.96	.98	.96	.95	.97	.95	.94	.93
5.0	1.00	.97	.95	.00	.97	.94	.98	.95	.93	.97	.94	.93	.95	.93	.92	.91
6.0	.98	.95	.92	.97	.94	.92	.96	.94	.92	.95	.93	.91	.94	.92	.90	.90
7.0	.96	.93	.90	.96	.92	.90	.95	.92	.90	.94	.91	.89	.93	.91	.89	.88
8.0	.94	.91	.89	.94	.91	.89	.93	.90	.88	.92	.90	.88	.91	.89	.88	.87
9.0	.93	.90	.87	.92	.89	.87	.92	.89	.87	.91	.89	.87	.90	.88	.87	.86
10.0	.91	.88	.86	.91	.88	.86	.90	.88	.86	.90	.87	.86	.89	.87	.85	.85



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.118	.067	.021	.112	.064	.020	.099	.057	.018	.088	.051	.016	.078	.045	.014	
2.0	.108	.059	.018	.102	.056	.017	.092	.051	.016	.083	.047	.015	.075	.042	.013	
3.0	.099	.053	.016	.095	.051	.015	.086	.047	.014	.079	.043	.013	.072	.040	.012	
4.0	.092	.048	.014	.088	.046	.014	.081	.043	.013	.075	.040	.012	.069	.037	.011	
5.0	.085	.043	.013	.082	.042	.012	.076	.040	.012	.071	.037	.011	.066	.035	.011	
6.0	.079	.040	.011	.077	.039	.011	.072	.037	.011	.067	.035	.010	.063	.033	.010	
7.0	.075	.037	.010	.072	.036	.010	.068	.034	.010	.064	.033	.010	.060	.031	.009	
8.0	.070	.034	.010	.068	.034	.010	.065	.032	.009	.061	.031	.009	.058	.030	.009	
9.0	.067	.032	.009	.065	.032	.009	.062	.031	.009	.059	.029	.008	.056	.028	.008	
10.0	.063	.030	.008	.062	.030	.008	.059	.029	.008	.056	.028	.008	.054	.027	.008	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.167	.158	.150	.143	.135	.129	.098	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.148	.133	.120	.127	.114	.104	.087	.079	.073	.050	.046	.043	.016	.015	.014	
3.0	.132	.113	.098	.113	.098	.085	.077	.068	.060	.045	.040	.035	.014	.013	.012	
4.0	.118	.097	.082	.101	.084	.071	.070	.059	.050	.040	.034	.030	.013	.011	.010	
5.0	.107	.085	.069	.091	.073	.060	.063	.051	.042	.037	.030	.025	.012	.010	.008	
6.0	.097	.074	.058	.083	.065	.051	.057	.045	.036	.033	.027	.021	.011	.009	.007	
7.0	.089	.066	.050	.076	.057	.044	.053	.040	.031	.031	.024	.018	.010	.008	.006	
8.0	.081	.059	.043	.070	.051	.038	.048	.036	.027	.028	.021	.016	.009	.007	.005	
9.0	.075	.053	.038	.065	.046	.033	.045	.032	.023	.026	.019	.014	.008	.006	.005	
10.0	.070	.048	.033	.060	.042	.029	.042	.029	.021	.024	.017	.012	.008	.006	.004	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm										
NAME:SPOTLIGHT					TYPE:OUTDOOR			WEIGHT:5		
SPEC.:TI-GO3S-FL150W					DIM.:			SERIAL No.:		
MFR.: TOMOMORI CO.,LTD					SUR.:			PROTECTION 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	8.9	9.4	9.1	9.6	9.7	9.9	10.5	10.1	10.6	10.7
3H	8.9	9.4	9.2	9.6	9.8	9.9	10.4	10.1	10.6	10.8
4H	8.9	9.4	9.2	9.6	9.8	9.9	10.4	10.1	10.6	10.8
6H	8.9	9.3	9.1	9.5	9.8	9.8	10.3	10.1	10.5	10.7
8H	8.8	9.3	9.1	9.5	9.7	9.8	10.2	10.1	10.5	10.7
12H	8.8	9.2	9.1	9.5	9.7	9.7	10.2	10.0	10.4	10.7
4H 2H	8.8	9.3	9.1	9.5	9.7	9.8	10.3	10.0	10.5	10.7
3H	8.8	9.2	9.1	9.5	9.8	9.8	10.2	10.1	10.5	10.7
4H	8.8	9.2	9.1	9.5	9.8	9.8	10.2	10.1	10.5	10.8
6H	8.8	9.1	9.1	9.4	9.8	9.7	10.0	10.1	10.4	10.7
8H	8.7	9.0	9.1	9.4	9.7	9.6	10.0	10.0	10.3	10.7
12H	8.7	9.0	9.1	9.3	9.7	9.6	9.9	10.0	10.3	10.6
8H 4H	8.7	9.0	9.1	9.4	9.7	9.7	10.0	10.0	10.3	10.7
6H	8.7	8.9	9.1	9.3	9.7	9.6	9.9	10.0	10.2	10.6
8H	8.6	8.9	9.1	9.3	9.7	9.5	9.8	10.0	10.2	10.6
12H	8.6	8.8	9.1	9.2	9.7	9.4	9.7	9.9	10.1	10.6
12H 4H	8.6	8.9	9.0	9.3	9.7	9.6	9.9	10.0	10.3	10.7
6H	8.6	8.9	9.1	9.3	9.7	9.5	9.8	10.0	10.2	10.6
8H	8.6	8.8	9.0	9.2	9.7	9.5	9.7	9.9	10.1	10.6
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 5.5					+ 3.9 / - 5.4				
1.5H	+ 4.3 / - 5.4					+ 5.9 / - 5.1				
2.0H	+ 4.9 / - 2.5					+ 3.9 / - 4.1				

CIE Pub.117 Corrected 8435 lm Total Lamp Luminous Flux. (8log(F/F0) = 7.4)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION 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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	89	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

8365.9 lm

%lum = 99.2%

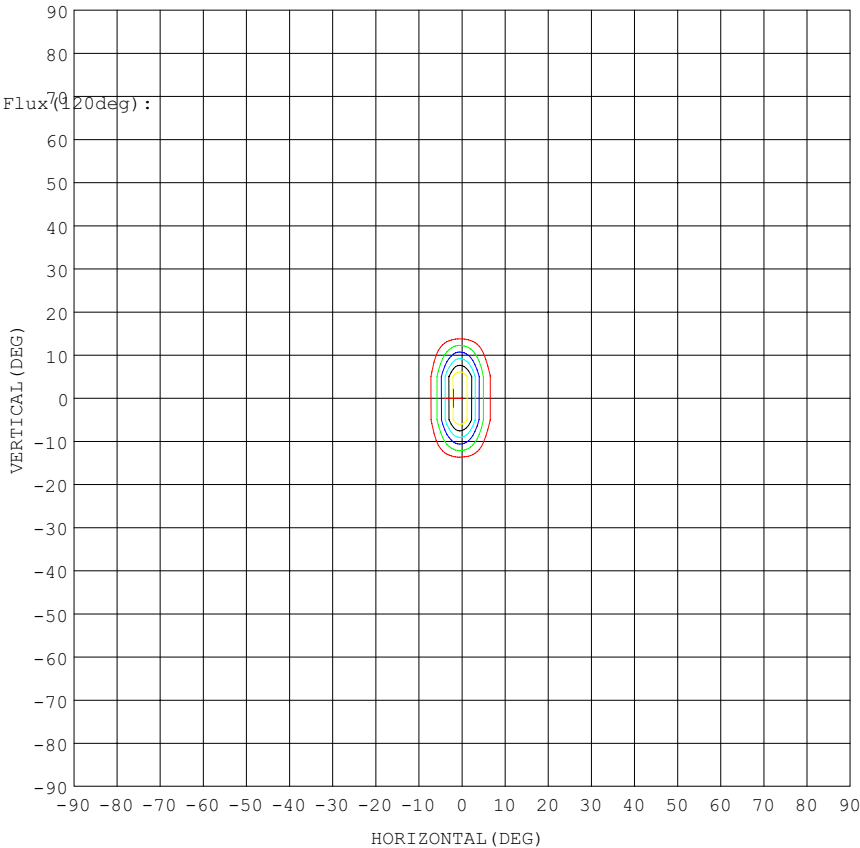
%lamp = 99.2%

Conical surface Flux(70deg):

8419.7 lm

%lum = 99.8%

%lamp = 99.8%



- 10% 16512
- 20% 33024
- 30% 49536
- 40% 66048
- 50% 82560
- 60% 99072
- 70% 115584
- 80% 132096
- 90% 148609

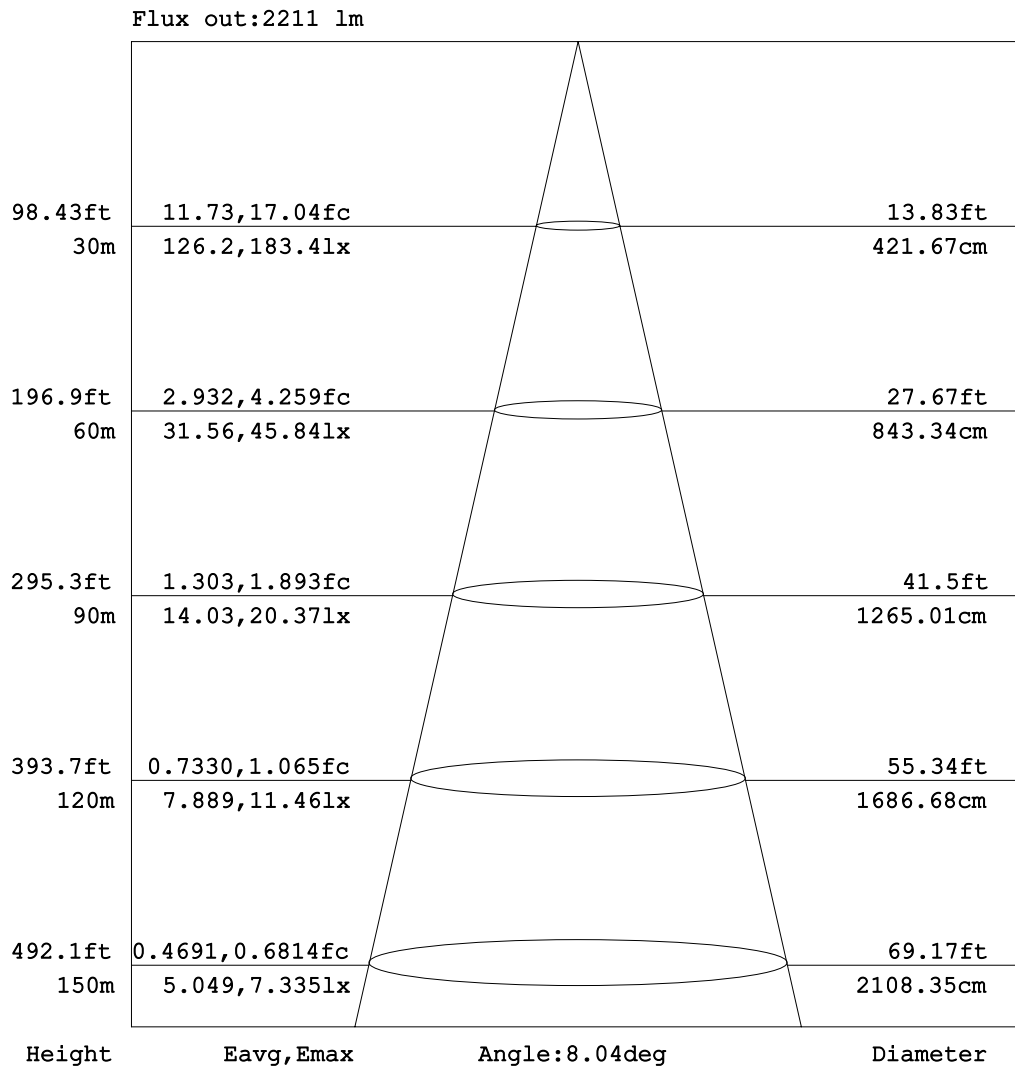
Imax:165121 (H-2.0,V0.0)
 (At:C=180.0,Gamma=1.5)
 UNIT: cd

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:



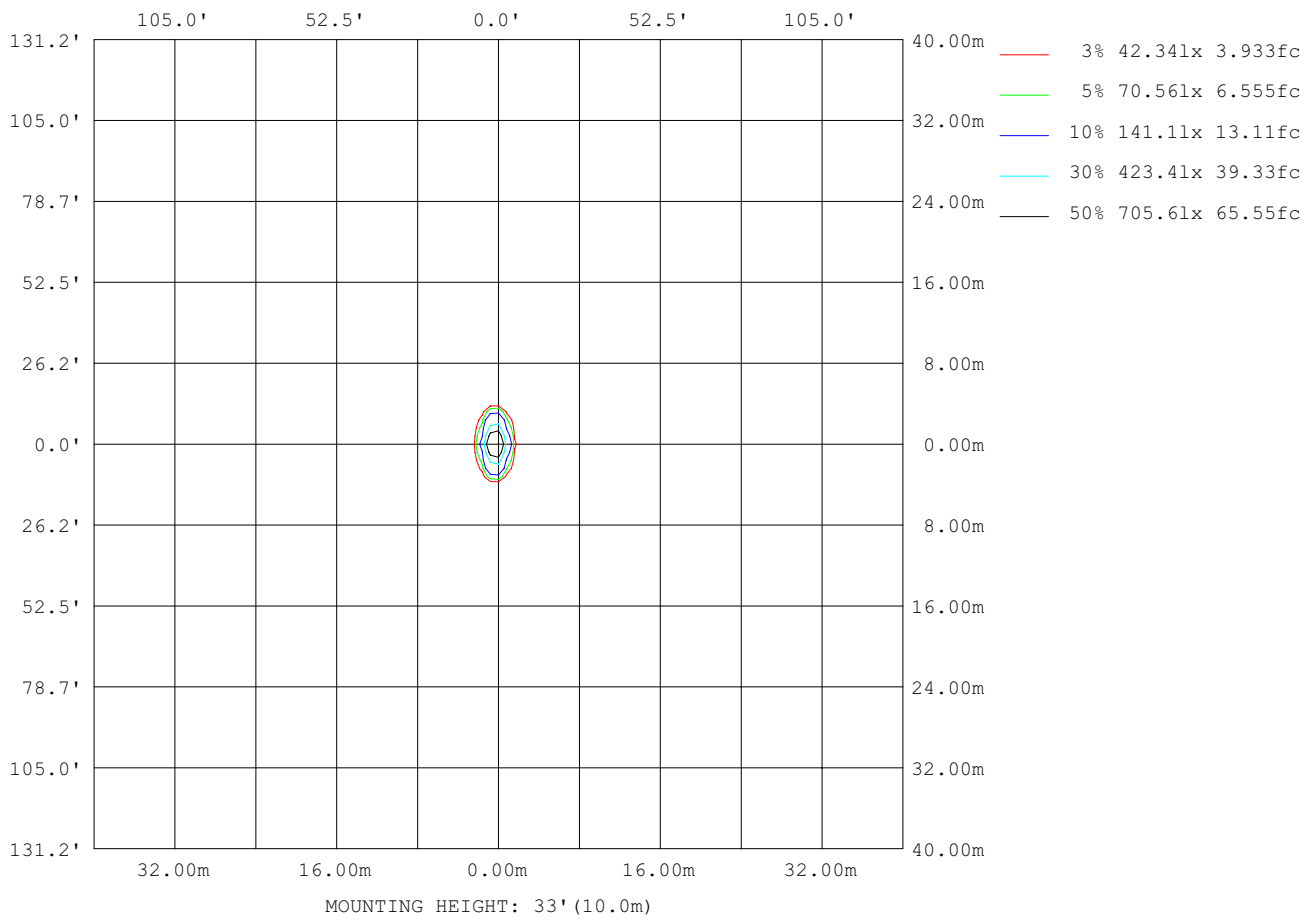
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

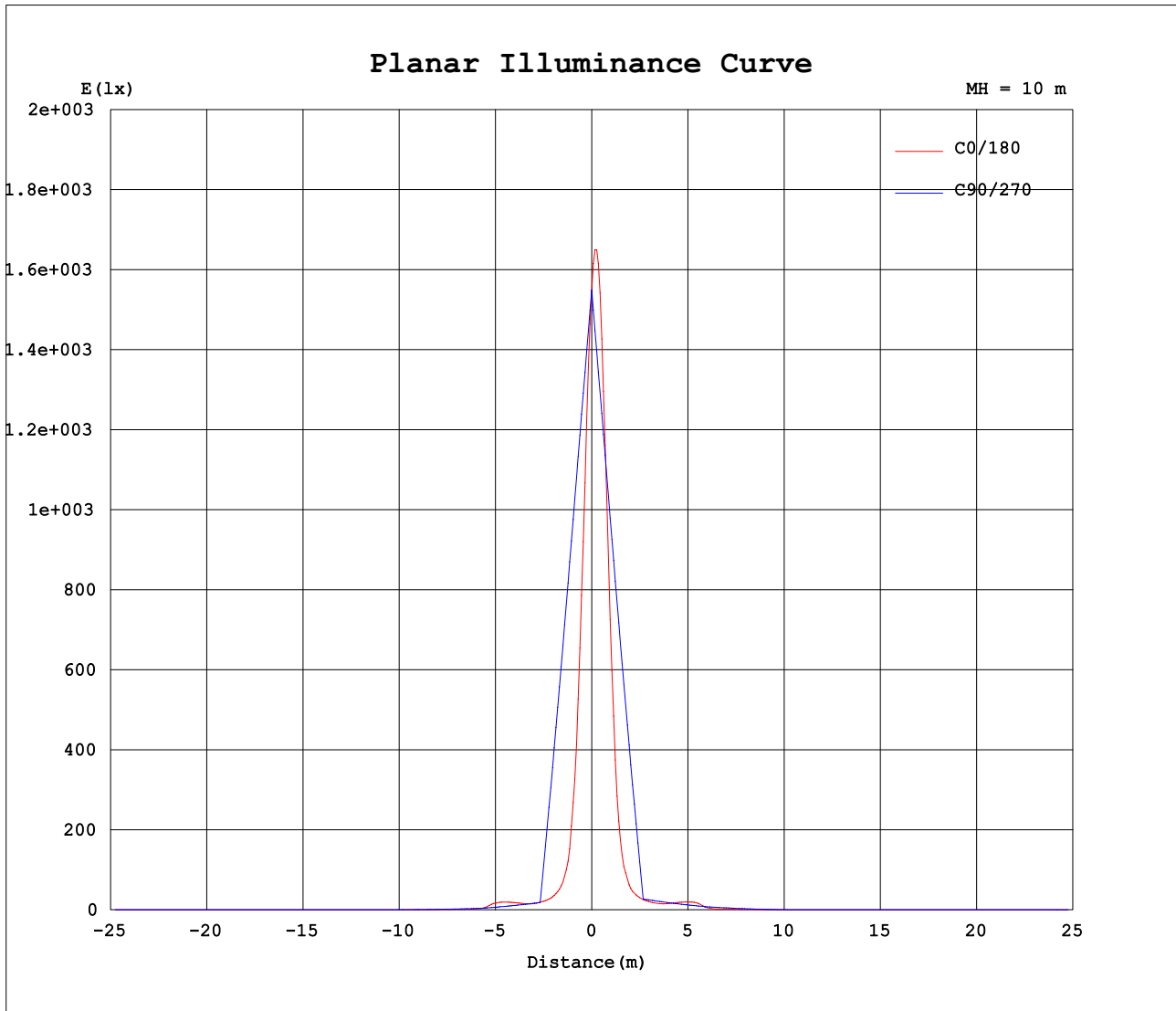
Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.:TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ?00cd

C (DEG) y (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
5	331	325	325	331	342	357	384	416	456	501	551	605	663	729	802	874	938	992	1040
10	48.1	46.7	46.2	46.2	47.0	48.7	51.9	56.7	63.4	72.4	89.8	121	151	202	267	334	409	479	530
15	21.4	21.6	21.9	22.3	22.7	23.1	23.5	23.9	24.2	24.7	25.3	26.5	28.6	32.2	35.8	37.0	32.6	24.9	20.7
20	19.8	19.9	19.9	20.0	20.2	20.5	21.0	21.5	21.7	21.0	18.9	16.7	15.0	14.2	14.0	14.4	14.9	15.5	15.8
25	26.3	23.6	21.2	19.2	18.2	18.6	20.0	21.5	20.2	18.2	16.1	13.9	11.9	10.3	9.67	9.63	9.98	10.5	11.0
30	5.47	5.49	5.84	6.98	8.14	7.56	6.94	8.97	11.4	11.9	10.6	8.83	7.28	6.06	5.41	5.25	5.30	5.64	6.08
35	2.42	2.45	2.57	2.78	3.12	3.36	3.43	3.51	3.54	4.13	3.97	2.44	2.49	2.81	3.10	3.35	3.59	3.95	4.34
40	1.35	1.36	1.43	1.58	1.74	1.75	1.76	1.72	1.56	1.33	1.39	1.47	1.58	1.74	1.95	2.09	2.21	2.37	2.59
45	0.76	0.70	0.69	0.78	0.85	0.84	0.79	0.77	0.82	0.82	0.84	0.88	0.89	0.91	0.94	0.94	0.89	0.85	0.85
50	0.37	0.32	0.31	0.32	0.30	0.31	0.34	0.36	0.42	0.42	0.38	0.38	0.42	0.44	0.49	0.55	0.57	0.59	0.60
55	0.15	0.14	0.14	0.14	0.14	0.14	0.15	0.19	0.18	0.14	0.15	0.22	0.28	0.30	0.31	0.34	0.35	0.35	0.36
60	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.14	0.17	0.17	0.16	0.15	0.13	0.12	0.12
65	0.10	0.10	0.10	0.10	0.09	0.09	0.10	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09
70	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
75	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
80	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00
85	0.01	0.01	0.01	0.01	0.01	0.00	0.00	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

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

y Range: 0 - 90DEG
 y Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: 200cd

C (DEG) \ y (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
5	1080	1109	1126	1131	1125	1106	1069	1031	993	959	929	903	882	863	853	852	860	879	860
10	565	575	557	508	451	384	318	261	206	164	137	119	104	95.5	91.9	91.9	93.4	97.0	93.8
15	26.7	42.5	59.0	68.1	66.5	55.5	46.0	38.3	34.8	30.9	29.4	28.6	28.1	27.8	27.7	27.8	28.1	28.7	28.1
20	15.9	15.8	15.6	15.6	15.4	15.3	15.3	16.1	18.1	20.0	21.4	22.1	22.2	21.8	21.1	20.3	19.4	18.5	18.8
25	11.0	10.9	10.9	11.0	11.1	11.5	12.7	15.1	18.4	22.2	26.0	25.9	25.4	24.6	24.3	24.5	25.0	26.0	24.6
30	6.17	6.19	6.49	7.08	7.51	8.09	9.58	12.1	15.1	18.1	18.9	14.5	9.72	11.0	13.3	14.3	14.6	15.9	15.1
35	4.35	4.28	4.47	4.82	4.57	3.99	3.54	5.50	7.57	6.05	3.63	3.31	3.12	2.99	2.91	2.89	2.97	3.14	3.29
40	2.61	2.63	2.88	3.01	2.74	2.30	1.96	1.80	1.66	1.74	1.76	1.71	1.65	1.64	1.62	1.62	1.65	1.74	1.80
45	0.90	1.00	1.20	1.30	1.24	1.13	1.09	1.04	0.99	0.95	0.93	0.93	0.92	0.95	0.98	0.95	0.95	1.01	1.00
50	0.62	0.63	0.65	0.58	0.48	0.43	0.45	0.49	0.49	0.52	0.48	0.47	0.49	0.43	0.46	0.47	0.46	0.49	0.47
55	0.37	0.38	0.40	0.36	0.31	0.30	0.26	0.20	0.16	0.22	0.26	0.23	0.17	0.21	0.19	0.18	0.17	0.18	0.17
60	0.12	0.13	0.15	0.16	0.17	0.18	0.17	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
65	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
70	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
75	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
80	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

y Range: 0 - 90DEG
 y Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: 200cd

C (DEG) \ y (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
5	852	854	864	883	904	931	961	996	1034	1072	1109	1128	1134	1129	1113	1083	1043	995	941
10	92.6	93.0	97.0	106	121	140	167	209	265	323	390	457	514	564	582	572	537	485	415
15	28.0	28.1	28.5	29.2	30.3	31.9	34.3	38.9	43.2	51.7	62.2	74.1	76.7	68.4	52.4	36.6	30.3	34.0	41.0
20	19.1	19.5	19.9	20.3	20.6	20.7	20.5	20.0	19.7	20.0	20.5	21.5	22.7	23.9	24.8	25.2	24.7	23.5	22.1
25	23.3	22.2	21.3	20.9	20.7	20.8	18.6	16.5	14.8	13.7	13.6	14.2	15.4	17.0	18.7	19.6	19.1	17.5	15.7
30	15.4	15.1	13.6	13.0	15.1	15.6	14.2	12.3	10.5	9.00	8.09	7.84	8.44	10.1	12.3	13.9	13.5	11.5	9.48
35	3.57	4.00	4.59	5.12	5.36	5.63	7.00	6.65	4.98	3.56	3.82	4.22	4.72	6.12	8.02	9.47	9.35	7.79	6.30
40	1.96	2.24	2.54	2.57	2.59	2.54	2.33	1.97	2.05	2.15	2.37	2.65	2.87	3.38	4.40	5.23	5.19	4.34	3.65
45	1.08	1.24	1.24	1.22	1.28	1.18	1.18	1.23	1.27	1.26	1.27	1.35	1.37	1.32	1.27	1.12	1.04	1.10	1.22
50	0.48	0.47	0.51	0.56	0.48	0.60	0.65	0.65	0.65	0.58	0.53	0.59	0.71	0.74	0.74	0.74	0.74	0.74	0.74
55	0.18	0.20	0.21	0.19	0.27	0.27	0.26	0.20	0.30	0.36	0.37	0.37	0.44	0.45	0.45	0.44	0.43	0.43	0.44
60	0.13	0.13	0.13	0.13	0.14	0.13	0.14	0.15	0.18	0.22	0.22	0.20	0.19	0.18	0.15	0.14	0.13	0.13	0.15
65	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10
70	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
75	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
80	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
85	0.01	0.01	0.01	0.01	0.00	0.00	0.00	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

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

y Range: 0 - 90DEG
 y Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.4850A P:104.2W PF:0.9750 Lamp Flux:8435.33x1 lm		
NAME:SPOTLIGHT	TYPE:OUTDOOR	WEIGHT:5
SPEC.:TI-GO3S-FL150W	DIM.:	SERIAL No.:
MFR.: TOMOMORI CO.,LTD	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: ?00cd

C (DEG) \ y (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550				
5	876	805	732	665	608	553	503	457	417	385	358	342	331	325	325				
10	339	272	207	155	125	92.9	75.0	65.5	58.5	53.3	49.8	47.7	46.7	46.4	46.8				
15	44.7	42.4	37.8	33.0	30.0	27.4	25.6	24.3	23.5	23.0	22.6	22.3	22.0	21.8	21.5				
20	20.5	19.2	18.4	17.5	17.2	18.1	20.0	21.4	22.2	22.4	22.2	21.9	21.6	21.1	20.5				
25	14.2	13.5	12.8	12.8	14.2	16.8	20.2	23.8	27.1	26.7	26.0	24.5	23.2	23.2	24.4				
30	8.80	8.63	8.30	8.73	10.3	12.7	15.5	18.0	15.6	9.66	6.94	7.44	6.46	5.51	5.32				
35	5.93	5.49	4.75	3.89	3.47	5.56	6.79	4.31	3.11	2.87	2.69	2.49	2.34	2.29	2.32				
40	3.59	3.27	2.73	2.24	1.98	1.75	1.60	1.62	1.60	1.50	1.44	1.39	1.34	1.30	1.30				
45	1.38	1.37	1.22	1.14	1.09	1.02	0.96	0.92	0.90	0.82	0.81	0.82	0.80	0.74	0.73				
50	0.73	0.60	0.49	0.45	0.47	0.49	0.48	0.50	0.45	0.45	0.40	0.36	0.40	0.36	0.35				
55	0.44	0.37	0.32	0.31	0.28	0.20	0.17	0.22	0.25	0.20	0.16	0.17	0.16	0.15	0.15				
60	0.17	0.17	0.18	0.19	0.17	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12				
65	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.10	0.10	0.11	0.11	0.10	0.11	0.10	0.10				
70	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.08	0.07	0.07	0.07	0.06				
75	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04				
80	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01				
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				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-06-23

y Range: 0 - 90DEG
 y Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: