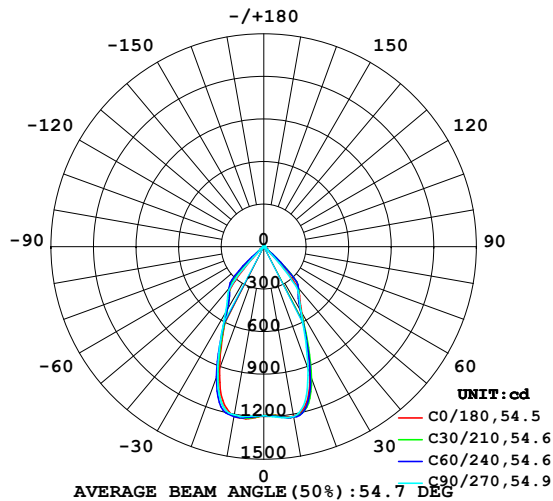


## LUMINAIRE PHOTOMETRIC TEST REPORT

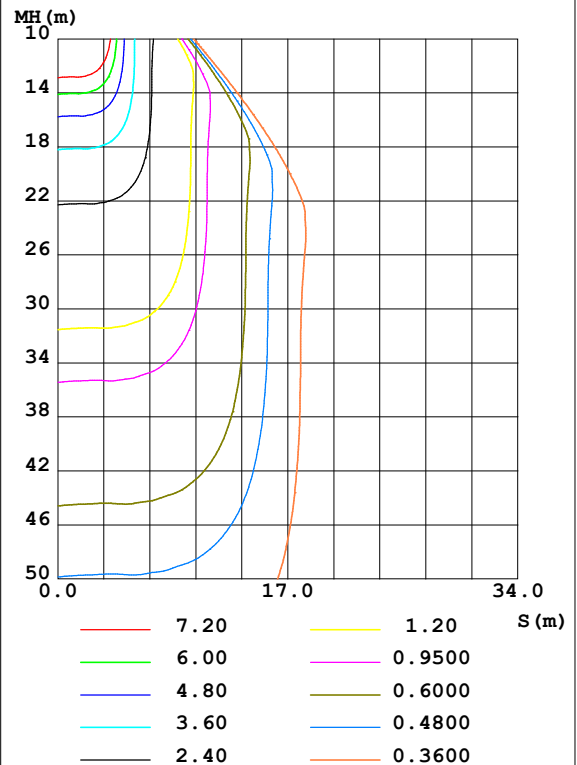
NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.39 lm/W
MODEL		Imax(cd)	1231	S/MH(C0/180)		0.86
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)		0.88
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1234.8	$\eta$ UP,DN(C0-180)		0.8,48.6
NOMINAL FLUX(lm)	1234.76	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)		0.7,49.9
LAMPS INSIDE	1	$\eta$ up(%)	1.5	CIBSE SHR NOM		0.75
TEST VOLTAGE(V)	120	$\eta$ down(%)	98.5	CIBSE SHR MAX		0.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1212	1224	1216	1228	1212	1217	1203	1219	0- 10	115.6	115.6	9.36,9.36
20	950.3	986.8	913.6	941.9	913.3	969.7	954.9	1011	10- 20	316.4	432.0	35,35
30	536.2	519.9	524.6	499.7	524.5	514.5	545.3	535.3	20- 30	326.9	758.9	61.5,61.5
40	355.4	377.9	315.7	370.0	317.1	374.8	356.5	380.6	30- 40	272.5	1031	83.5,83.5
50	30.86	115.3	33.74	84.63	33.34	107.4	33.90	136.1	40- 50	152.2	1184	95.9,95.9
60	13.30	8.361	12.18	8.271	13.16	9.091	13.16	10.21	50- 60	20.56	1204	97.5,97.5
70	6.438	4.330	5.415	4.305	6.316	4.716	6.338	4.776	60- 70	7.692	1212	98.1,98.1
80	2.636	1.480	0.9269	1.354	2.600	1.876	1.783	2.004	70- 80	3.760	1216	98.5,98.5
90	0.0462	0.0389	0.0403	0.0403	0.0575	0.0489	0.0490	0.0489	80- 90	0.5596	1216	98.5,98.5
100	0.0862	0.1539	0.0979	0.1811	0.1065	0.1724	0.0833	0.1439	90-100	0.0736	1216	98.5,98.5
110	0.4906	0.6784	0.5759	0.7276	0.5728	0.6858	0.4854	0.6272	100-110	0.3407	1217	98.5,98.5
120	1.530	1.657	1.649	1.740	1.634	1.642	1.509	1.545	110-120	1.058	1218	98.6,98.6
130	3.228	3.253	3.396	3.371	3.345	3.200	3.185	3.070	120-130	2.124	1220	98.8,98.8
140	5.461	5.339	5.663	5.441	5.558	5.190	5.359	5.070	130-140	3.307	1223	99.1,99.1
150	7.623	7.494	7.834	7.563	7.581	7.239	7.468	7.169	140-150	4.038	1227	99.4,99.4
160	9.170	9.363	9.461	9.359	9.116	9.076	9.102	9.073	150-160	3.843	1231	99.7,99.7
170	10.37	10.45	10.39	10.35	10.25	10.19	10.23	10.25	160-170	2.781	1234	99.9,99.9
180	10.86	10.88	10.75	10.83	10.85	10.88	10.75	10.83	170-180	1.001	1235	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1138.1 lm

%lum = 92.2%

%lamp = 92.2%

Conical surface Flux(120deg): 1204.2 lm

%lum = 97.5%

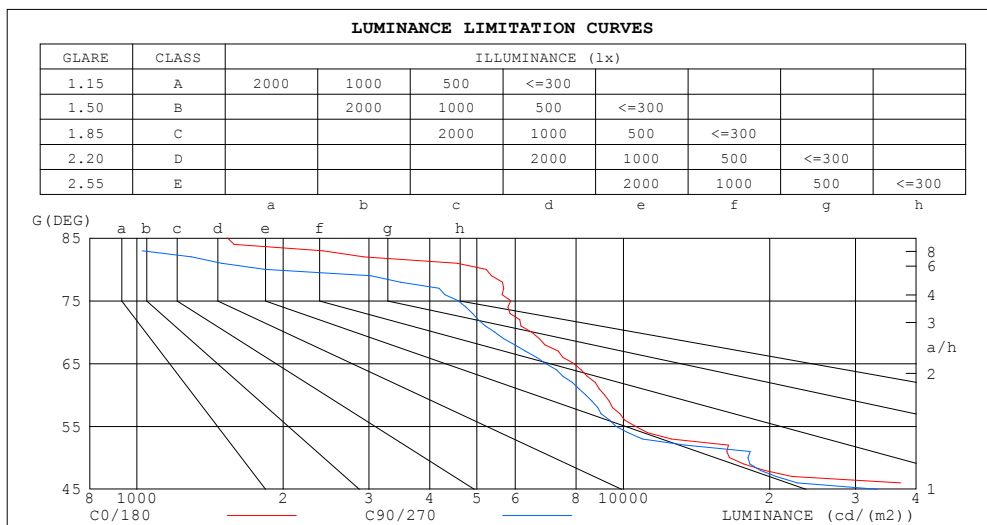
%lamp = 97.5%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:6.950m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1536	226
80	5222	1835
75	5870	4579
70	6475	5441
65	7918	6920
60	9149	8372
55	10579	9644
50	16515	18040
45	51671	33289

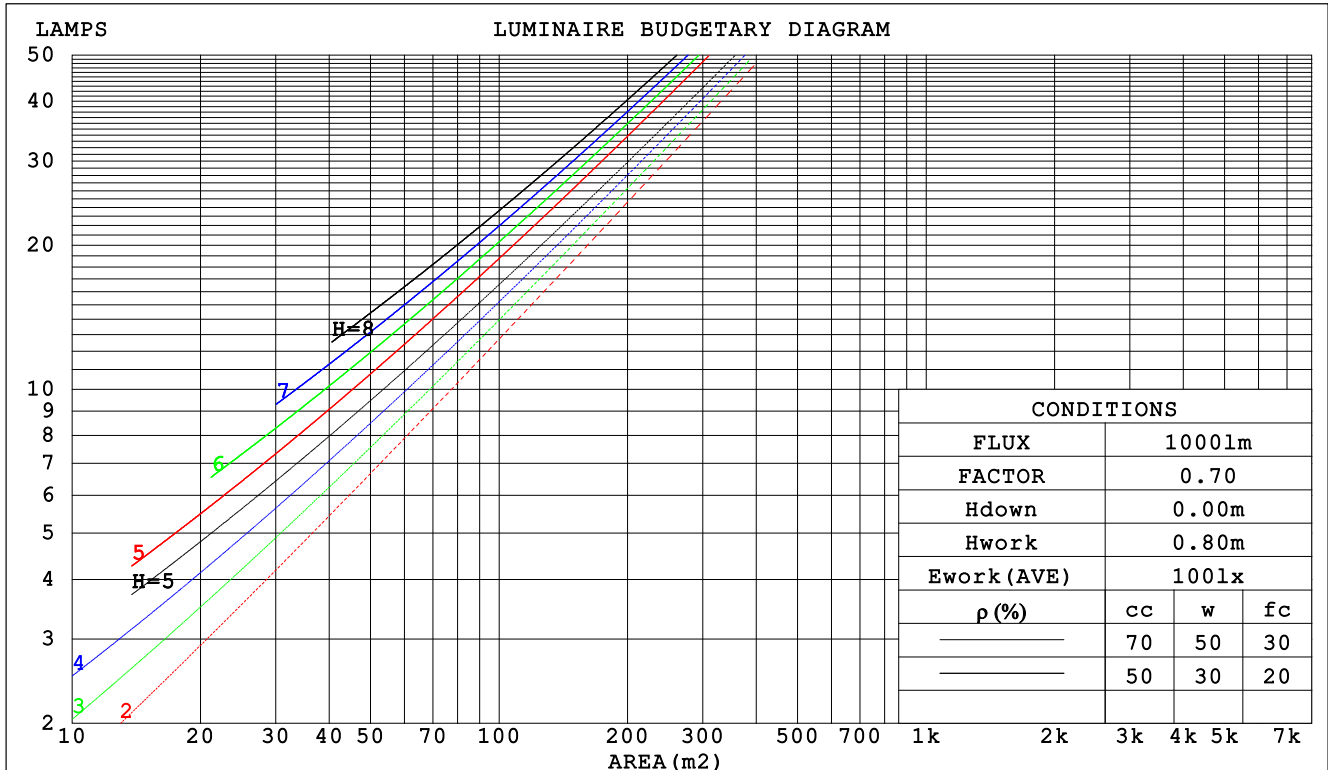
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.03	1.01	.00	.99	.98	.96	.96	.94	.93	.91
2.0	1.01	.97	.94	.00	.96	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.89	.84	.92	.88	.84	.90	.86	.82	.87	.84	.81	.84	.82	.79	.78
4.0	.87	.81	.77	.86	.81	.76	.84	.79	.75	.81	.77	.74	.79	.76	.73	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.76	.72	.68	.74	.71	.68	.66
6.0	.76	.69	.65	.75	.69	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.61
7.0	.71	.64	.60	.70	.64	.60	.69	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.66	.60	.56	.66	.60	.55	.64	.59	.55	.63	.58	.55	.62	.58	.54	.53
9.0	.62	.56	.52	.62	.56	.52	.61	.55	.51	.60	.55	.51	.59	.54	.51	.50
10.0	.59	.53	.49	.58	.52	.48	.57	.52	.48	.56	.51	.48	.56	.51	.48	.46



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### WEC AND CCEC

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.189	.107	.034	.182	.104	.033	.168	.097	.031	.156	.090	.029	.144	.084	.027		
2.0	.182	.100	.031	.176	.097	.030	.164	.091	.028	.154	.086	.027	.144	.082	.026		
3.0	.174	.093	.028	.169	.090	.027	.159	.086	.026	.150	.082	.025	.141	.078	.024		
4.0	.166	.086	.025	.161	.084	.025	.153	.081	.024	.144	.078	.023	.137	.074	.023		
5.0	.158	.080	.023	.154	.079	.023	.146	.076	.022	.139	.073	.022	.133	.071	.021		
6.0	.151	.075	.022	.147	.074	.021	.140	.072	.021	.134	.070	.020	.128	.067	.020		
7.0	.144	.071	.020	.141	.070	.020	.134	.068	.020	.129	.066	.019	.123	.064	.019		
8.0	.137	.067	.019	.134	.066	.019	.129	.064	.018	.124	.063	.018	.119	.061	.018		
9.0	.131	.063	.018	.129	.063	.018	.124	.061	.017	.119	.060	.017	.115	.058	.017		
10.0	.126	.060	.017	.123	.060	.017	.119	.058	.016	.115	.057	.016	.111	.056	.016		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.184	.169	.155	.157	.145	.134	.107	.100	.093	.062	.058	.054	.020	.019	.017	
2.0	.169	.144	.123	.145	.124	.106	.099	.086	.074	.057	.050	.043	.018	.016	.014	
3.0	.158	.125	.100	.135	.108	.086	.093	.075	.061	.054	.044	.036	.017	.014	.012	
4.0	.148	.111	.082	.127	.096	.072	.087	.067	.050	.051	.039	.030	.016	.013	.010	
5.0	.140	.099	.070	.120	.086	.061	.083	.060	.043	.048	.035	.025	.015	.012	.008	
6.0	.133	.090	.060	.114	.078	.052	.079	.055	.037	.046	.032	.022	.015	.011	.007	
7.0	.126	.083	.053	.109	.072	.046	.075	.050	.032	.044	.030	.019	.014	.010	.006	
8.0	.121	.077	.047	.104	.067	.041	.072	.047	.029	.042	.028	.017	.014	.009	.006	
9.0	.116	.072	.042	.100	.062	.037	.069	.044	.026	.040	.026	.016	.013	.008	.005	
10.0	.111	.068	.038	.096	.059	.034	.067	.041	.024	.039	.024	.014	.013	.008	.005	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

NAME:					TYPE:CRI90 3000K			WEIGHT:1.1KG			
SPEC.:RAD35S-15-30K					DIM.:			SERIAL No.:1			
MFR.:					SUR.:54*54MM			Shielding 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	2H	23.3	24.3	23.5	24.5	24.7	22.9	23.9	23.2	24.1	24.3
	3H	23.1	24.0	23.4	24.3	24.5	22.8	23.7	23.0	23.9	24.1
	4H	23.0	23.9	23.3	24.2	24.4	22.7	23.5	23.0	23.8	24.1
	6H	23.0	23.8	23.3	24.1	24.3	22.6	23.4	22.9	23.7	24.0
	8H	22.9	23.7	23.3	24.0	24.3	22.5	23.3	22.9	23.6	23.9
	12H	22.9	23.6	23.2	23.9	24.2	22.5	23.2	22.8	23.5	23.8
4H	2H	23.0	23.9	23.3	24.1	24.4	22.7	23.5	23.0	23.8	24.0
	3H	22.9	23.6	23.2	23.9	24.2	22.5	23.2	22.8	23.5	23.9
	4H	22.8	23.5	23.2	23.8	24.1	22.4	23.1	22.8	23.4	23.8
	6H	22.7	23.3	23.1	23.7	24.1	22.3	22.9	22.7	23.3	23.7
	8H	22.7	23.2	23.1	23.6	24.0	22.3	22.8	22.7	23.2	23.6
	12H	22.6	23.1	23.1	23.5	23.9	22.2	22.7	22.7	23.1	23.6
8H	4H	22.6	23.2	23.1	23.6	24.0	22.3	22.8	22.7	23.2	23.6
	6H	22.6	23.0	23.0	23.5	23.9	22.2	22.6	22.6	23.1	23.5
	8H	22.5	22.9	23.0	23.4	23.8	22.1	22.5	22.6	23.0	23.5
	12H	22.5	22.8	23.0	23.3	23.8	22.1	22.4	22.6	22.9	23.4
12H	4H	22.6	23.1	23.0	23.5	23.9	22.2	22.7	22.7	23.1	23.6
	6H	22.5	22.9	23.0	23.4	23.8	22.1	22.5	22.6	23.0	23.5
	8H	22.5	22.8	23.0	23.3	23.8	22.1	22.4	22.6	22.9	23.4
Variations with the observer position at spacings:											
S = 1.0H		+ 3.1 / -11.0					+ 3.1 / -12.2				
1.5H		+ 3.7 / - 9.4					+ 3.8 / -11.3				
2.0H		+ 5.1 / - 5.0					+ 5.2 / - 5.2				

CIE Pub.117, 1235 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

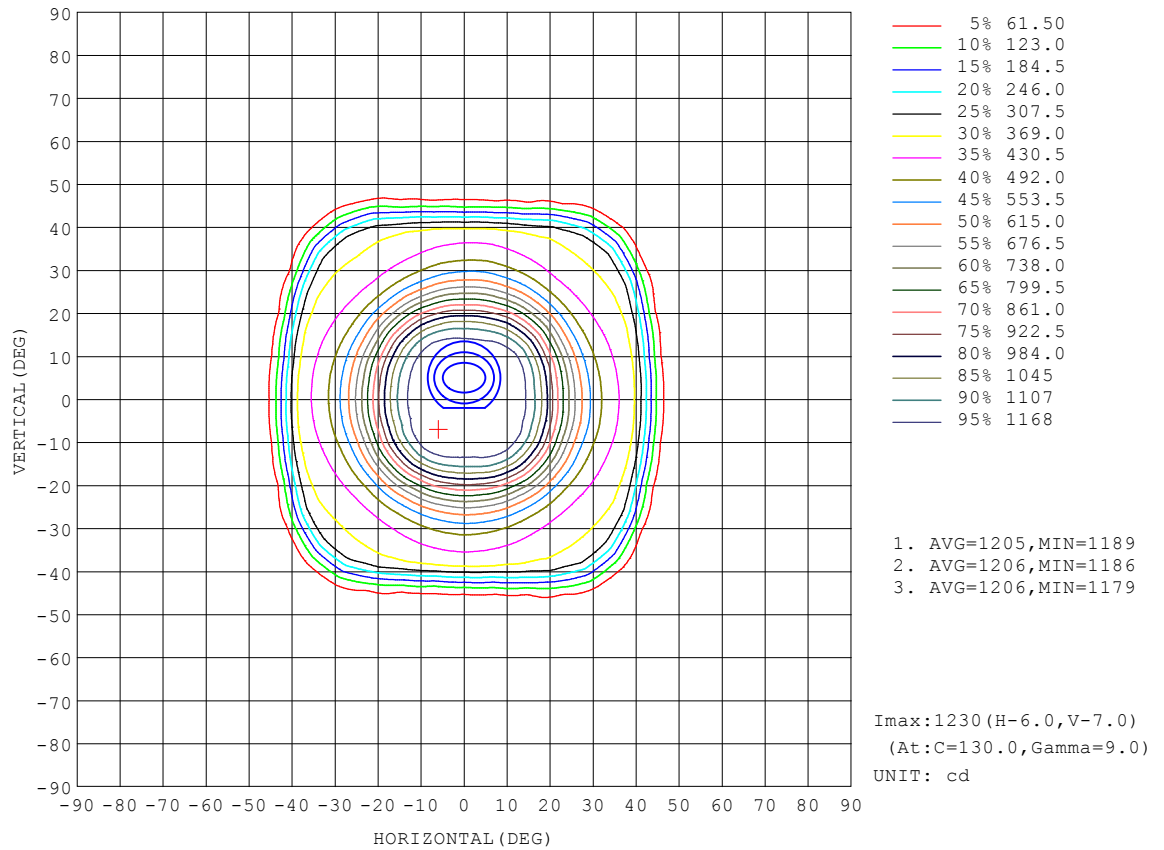
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT)    k(RI) x RCR = 5									
k = 0.60	81	74	69	81	74	69	80	73	69	65
0.80	90	83	78	89	82	78	87	82	78	73
1.00	95	89	85	94	88	84	92	88	84	79
1.25	100	94	90	99	93	90	96	92	89	84
1.50	103	98	94	102	97	93	99	95	92	87
2.00	106	102	98	105	101	97	102	98	96	90
2.50	108	104	101	107	103	100	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	107	105	106	104	102	94
5.00	114	111	109	111	109	107	107	105	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR <sub>NOM</sub> = 1.25										

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:



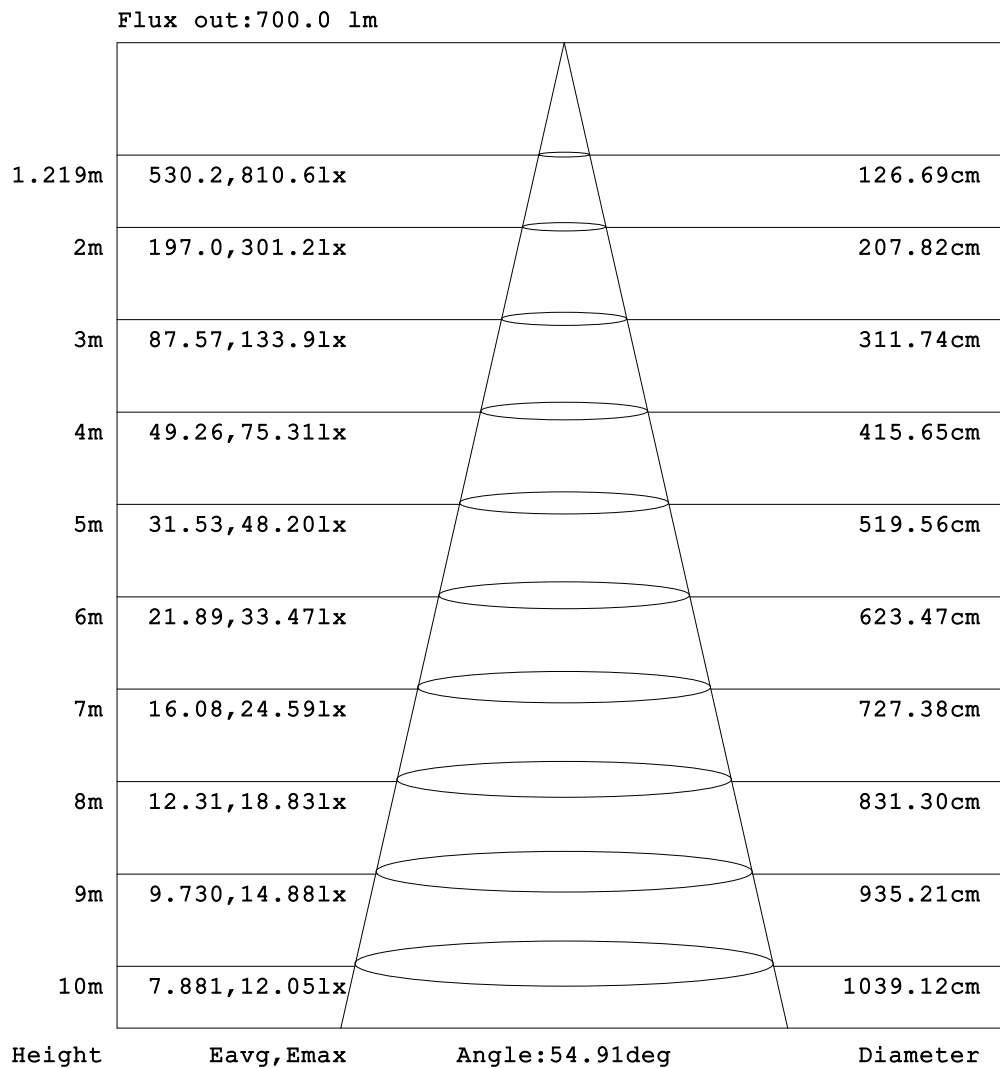
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:



### AAI Figure

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:



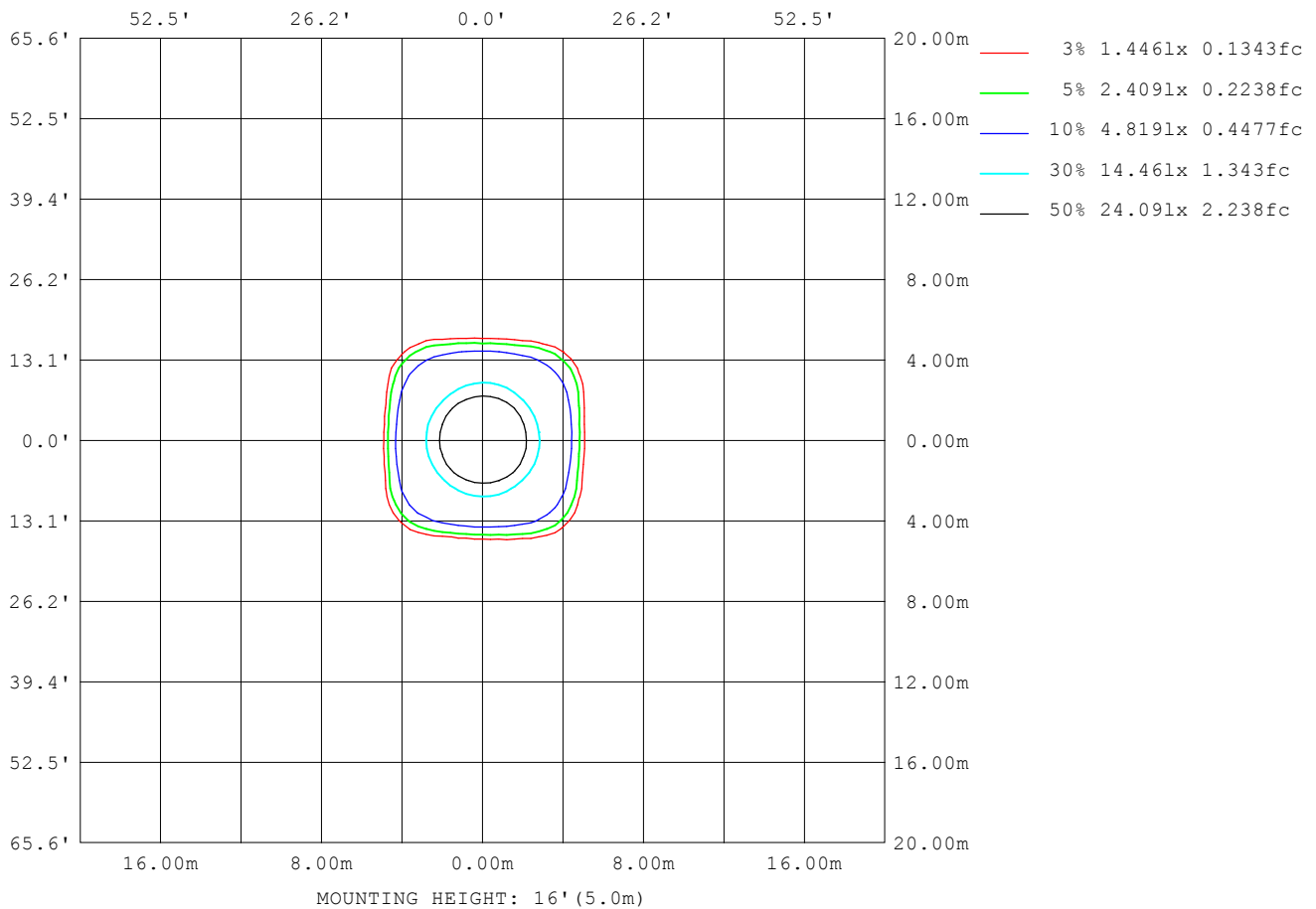
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### ISOLUX DIAGRAM

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

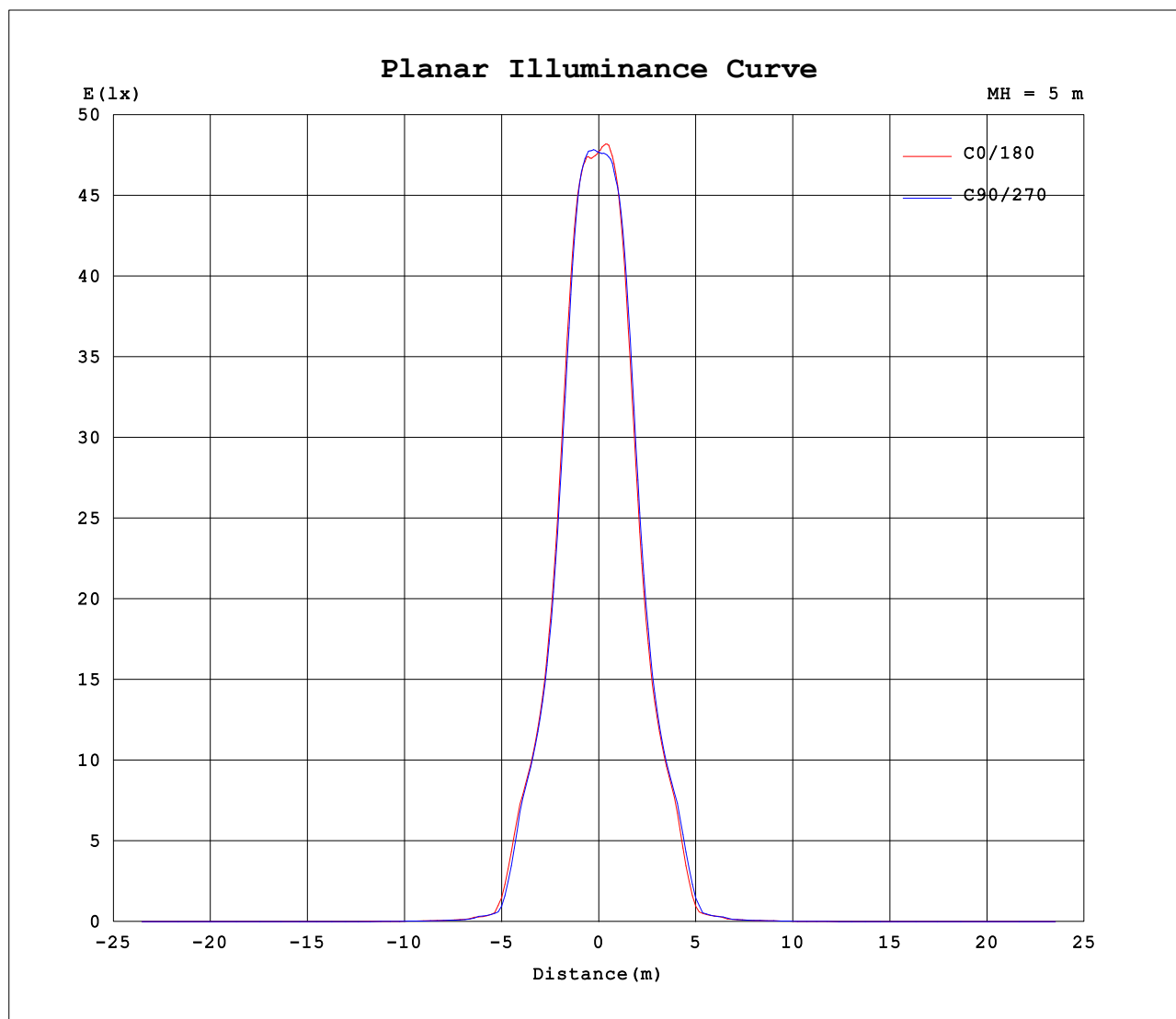
AvgL	cd/m2
L_0~180 (65) av	7815
L_0~180 (75) av	5749
L_0~180 (85) av	1762
L_90~270 (65) av	7384
L_90~270 (75) av	4955
L_90~270 (85) av	655
L_45 (65) av	4968
L_45 (75) av	4555
L_45 (85) av	1023

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-02-07

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 6.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192
5	1195	1197	1199	1201	1201	1202	1203	1205	1205	1207	1209	1211	1215	1216	1216	1219	1219	1219	1218
10	1212	1214	1217	1220	1224	1225	1220	1217	1215	1216	1219	1224	1229	1230	1226	1220	1215	1214	1212
15	1150	1158	1158	1174	1177	1178	1166	1152	1135	1129	1130	1145	1154	1161	1152	1144	1126	1126	1123
20	950	964	969	987	988	985	963	943	922	914	911	924	929	943	940	940	921	919	913
25	710	719	717	728	727	722	706	700	689	685	679	682	679	686	684	687	680	687	686
30	536	538	529	527	520	520	517	521	523	525	517	511	503	501	498	505	509	521	524
35	444	443	436	430	423	422	426	432	436	437	433	428	419	414	412	419	425	433	438
40	355	365	376	382	378	378	380	370	335	316	323	361	372	371	369	372	363	332	317
45	106	120	169	271	320	325	255	154	90.3	68.5	80.8	123	216	295	296	244	135	82.8	69.6
50	30.9	30.2	31.2	49.7	114	117	46.5	32.0	31.5	33.7	31.4	30.5	36.8	83.3	86.0	41.3	30.4	29.9	33.3
55	17.6	16.4	13.6	22.6	29.0	28.6	22.9	13.3	15.2	16.1	15.1	13.2	15.7	25.7	27.4	21.4	13.5	15.7	17.2
60	13.3	13.1	10.9	9.76	8.49	8.23	9.37	10.3	11.8	12.2	11.8	10.4	9.49	8.21	8.33	9.54	10.5	12.4	13.2
65	9.73	9.54	7.81	7.03	6.11	5.94	6.58	7.15	8.07	8.51	8.12	7.14	6.61	5.97	5.81	6.75	7.49	8.88	9.49
70	6.44	6.30	5.20	4.78	4.39	4.27	4.33	4.53	5.07	5.41	5.17	4.57	4.30	4.31	4.30	4.65	5.03	5.95	6.32
75	4.42	4.25	3.60	3.38	3.29	3.20	2.97	2.94	3.21	3.45	3.24	2.95	2.95	3.13	3.29	3.40	3.64	4.22	4.24
80	2.64	2.64	2.31	1.76	1.50	1.46	1.29	1.07	0.91	0.93	0.88	0.95	1.07	1.40	1.30	1.56	2.15	2.78	2.60
85	0.39	0.37	0.46	0.27	0.23	0.18	0.13	0.09	0.07	0.06	0.06	0.06	0.08	0.13	0.17	0.21	0.34	0.47	0.50
90	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.06
95	0.05	0.06	0.04	0.06	0.05	0.07	0.04	0.06	0.04	0.06	0.04	0.06	0.04	0.07	0.05	0.07	0.04	0.06	0.07
100	0.09	0.10	0.09	0.14	0.14	0.17	0.13	0.12	0.09	0.10	0.08	0.12	0.14	0.18	0.18	0.16	0.11	0.10	0.11
105	0.18	0.22	0.27	0.33	0.36	0.38	0.37	0.32	0.27	0.24	0.25	0.32	0.37	0.40	0.39	0.38	0.32	0.27	0.24
110	0.49	0.53	0.58	0.64	0.67	0.69	0.67	0.64	0.59	0.58	0.59	0.65	0.70	0.73	0.73	0.71	0.65	0.61	0.57
115	0.94	0.97	1.01	1.06	1.09	1.11	1.10	1.08	1.05	1.04	1.06	1.11	1.14	1.16	1.16	1.14	1.10	1.07	1.04
120	1.53	1.54	1.59	1.62	1.65	1.66	1.67	1.67	1.66	1.65	1.68	1.70	1.74	1.74	1.74	1.72	1.71	1.67	1.63
125	2.29	2.29	2.33	2.35	2.38	2.38	2.42	2.41	2.45	2.43	2.47	2.47	2.50	2.48	2.48	2.46	2.48	2.46	2.40
130	3.23	3.23	3.26	3.24	3.25	3.26	3.32	3.35	3.41	3.40	3.43	3.42	3.42	3.37	3.37	3.36	3.40	3.40	3.35
135	4.31	4.31	4.31	4.26	4.26	4.26	4.32	4.39	4.49	4.50	4.52	4.49	4.44	4.38	4.37	4.37	4.44	4.49	4.43
140	5.46	5.45	5.43	5.35	5.33	5.34	5.43	5.52	5.64	5.66	5.67	5.61	5.54	5.45	5.43	5.46	5.56	5.61	5.56
145	6.61	6.59	6.55	6.45	6.42	6.44	6.56	6.69	6.82	6.84	6.81	6.71	6.61	6.51	6.53	6.59	6.70	6.74	6.66
150	7.62	7.57	7.51	7.43	7.46	7.53	7.66	7.79	7.88	7.83	7.76	7.65	7.59	7.54	7.59	7.65	7.74	7.76	7.58
155	8.41	8.38	8.35	8.34	8.42	8.50	8.62	8.66	8.70	8.63	8.55	8.50	8.51	8.49	8.50	8.50	8.53	8.51	8.31
160	9.17	9.22	9.23	9.25	9.32	9.40	9.47	9.50	9.53	9.46	9.43	9.44	9.40	9.38	9.33	9.30	9.27	9.24	9.12
165	9.92	9.96	9.99	9.98	10.0	10.1	10.2	10.2	10.2	10.1	10.1	10.1	10.0	10.0	10.0	9.99	9.96	9.92	9.82
170	10.4	10.4	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.4	10.4	10.3	10.3	10.2
175	10.6	10.7	10.7	10.7	10.8	10.8	10.8	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.5	10.4	10.5
180	10.9	10.8	10.8	10.9	10.9	10.9	10.8	10.8	10.7	10.7	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.8

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:CRI90 3000K	WEIGHT:1.1KG
SPEC.:RAD35S-15-30K	DIM.:	SERIAL No.:1
MFR.:	SUR.:54*54MM	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192	1192		
5	1217	1214	1214	1212	1210	1208	1206	1204	1201	1198	1200	1199	1199	1197	1197	1196	1197		
10	1210	1212	1212	1216	1218	1218	1212	1209	1203	1203	1208	1212	1218	1219	1220	1219	1214		
15	1126	1135	1145	1156	1164	1169	1162	1157	1149	1150	1160	1174	1184	1188	1182	1170	1159		
20	918	935	948	968	972	977	969	965	955	963	975	998	1007	1014	998	981	960		
25	687	696	696	711	713	716	713	722	720	730	736	747	750	752	734	726	714		
30	524	521	516	516	513	520	525	539	545	551	547	545	537	533	530	533	535		
35	437	434	427	421	419	425	432	442	448	451	444	437	428	428	432	438	442		
40	327	364	376	376	373	379	379	371	357	370	383	387	381	380	384	380	369		
45	84.0	130	230	308	322	289	197	134	105	126	178	276	332	339	301	205	129		
50	31.7	31.4	37.1	100.0	115	70.3	34.1	31.5	33.9	32.4	32.3	48.6	128	144	80.8	30.2	27.9		
55	16.4	14.0	21.3	28.6	30.1	25.3	16.0	15.8	18.0	17.2	14.4	23.6	27.1	27.9	21.7	16.4	15.8		
60	12.9	11.2	10.1	9.04	9.14	9.98	10.8	12.4	13.2	13.1	11.4	10.5	9.37	11.1	10.1	10.8	12.6		
65	9.32	8.09	7.35	6.57	6.19	7.16	7.85	8.99	9.65	9.62	8.29	7.66	6.71	6.42	7.24	7.93	9.26		
70	6.23	5.52	5.06	4.79	4.64	4.87	5.20	5.91	6.34	6.30	5.48	5.12	4.82	4.73	5.00	5.31	6.15		
75	4.31	3.98	3.67	3.66	3.62	3.53	3.44	3.80	4.02	3.96	3.56	3.55	3.57	3.64	3.56	3.64	4.13		
80	2.80	2.57	2.07	1.89	1.87	1.85	1.78	1.78	1.78	1.79	1.81	1.92	2.00	2.01	2.13	2.42	2.69		
85	0.54	0.48	0.34	0.33	0.30	0.28	0.26	0.27	0.27	0.28	0.28	0.31	0.34	0.39	0.40	0.50	0.66		
90	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06		
95	0.07	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.05	0.07	0.07		
100	0.09	0.12	0.14	0.17	0.17	0.15	0.09	0.10	0.08	0.10	0.08	0.12	0.14	0.15	0.14	0.11	0.09		
105	0.24	0.30	0.35	0.38	0.36	0.35	0.28	0.24	0.18	0.21	0.24	0.30	0.32	0.34	0.32	0.28	0.23		
110	0.59	0.63	0.68	0.69	0.68	0.66	0.59	0.54	0.49	0.51	0.54	0.60	0.62	0.63	0.61	0.58	0.53		
115	1.04	1.07	1.09	1.10	1.09	1.08	1.02	0.98	0.94	0.93	0.97	1.01	1.02	1.03	1.02	0.99	0.97		
120	1.64	1.63	1.65	1.64	1.64	1.61	1.59	1.54	1.51	1.49	1.52	1.53	1.55	1.54	1.55	1.53	1.52		
125	2.40	2.38	2.38	2.34	2.35	2.32	2.32	2.27	2.25	2.22	2.24	2.23	2.24	2.22	2.24	2.24	2.25		
130	3.34	3.29	3.25	3.20	3.20	3.20	3.23	3.20	3.18	3.14	3.14	3.09	3.08	3.06	3.11	3.12	3.17		
135	4.41	4.32	4.23	4.16	4.15	4.16	4.23	4.25	4.25	4.20	4.16	4.06	4.04	4.03	4.08	4.14	4.22		
140	5.53	5.41	5.29	5.19	5.19	5.21	5.29	5.33	5.36	5.30	5.24	5.12	5.08	5.06	5.13	5.23	5.33		
145	6.63	6.52	6.39	6.24	6.22	6.24	6.35	6.44	6.50	6.44	6.37	6.22	6.15	6.10	6.19	6.31	6.43		
150	7.58	7.53	7.42	7.27	7.20	7.19	7.28	7.37	7.47	7.46	7.44	7.29	7.21	7.13	7.19	7.25	7.38		
155	8.33	8.31	8.27	8.19	8.14	8.10	8.11	8.16	8.25	8.28	8.29	8.23	8.18	8.10	8.11	8.09	8.17		
160	9.10	9.04	9.06	9.06	9.09	9.04	9.06	9.06	9.10	9.09	9.14	9.10	9.11	9.04	9.00	8.97	9.01		
165	9.83	9.82	9.79	9.81	9.80	9.78	9.80	9.82	9.88	9.90	9.93	9.89	9.84	9.80	9.75	9.73	9.75		
170	10.3	10.3	10.2	10.2	10.2	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2		
175	10.5	10.6	10.6	10.6	10.5	10.5	10.4	10.4	10.4	10.5	10.5	10.6	10.6	10.6	10.6	10.6	10.6		
180	10.8	10.8	10.8	10.9	10.9	10.8	10.8	10.7	10.8	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.7		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-02-07

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:6.950m [K=1.0000]  
Remarks: