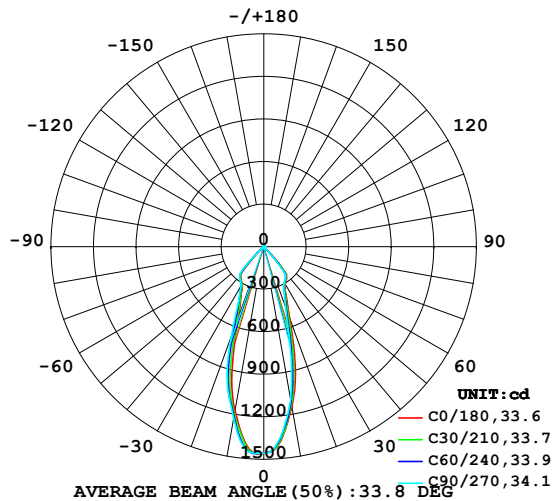


LUMINAIRE PHOTOMETRIC TEST REPORT

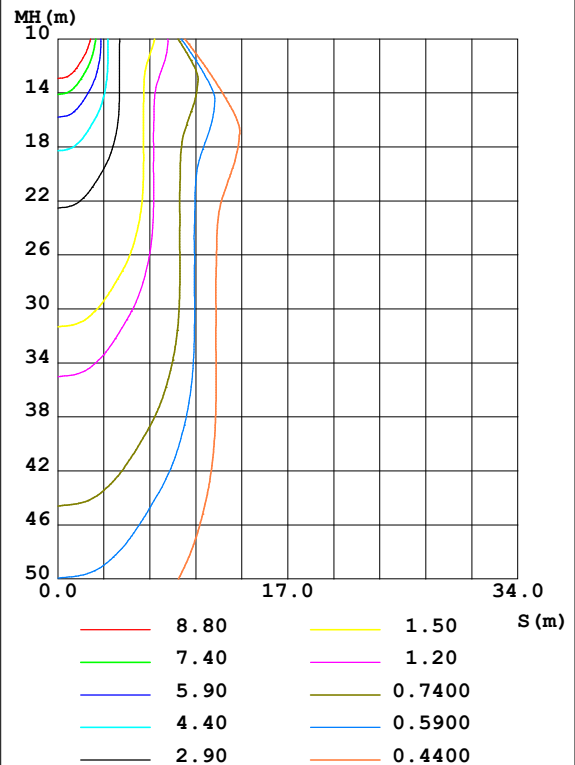
NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.48 lm/W
MODEL		I _{max} (cd)	1462	S/MH (C0/180)	0.56	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH (C90/270)	0.62	
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	806.49	η UP, DN (C0-180)	0.5, 44.9	
NOMINAL FLUX(lm)	806.489	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 54.0	
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	12	η down (%)	99.0	CIBSE SHR MAX	0.55	

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: 2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.620m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1145	1120	1093	1090	1172	1208	1230	1225	0- 10	125.1	125.1	15.5,15.5
20	539.1	489.5	452.9	451.3	520.2	589.6	667.7	668.2	10- 20	232.8	357.9	44.4,44.4
30	304.9	295.7	291.1	294.7	308.1	315.4	322.4	321.8	20- 30	179.6	537.5	66.6,66.6
40	233.7	204.8	178.9	182.7	245.9	260.1	265.7	265.4	30- 40	173.4	710.9	88.2,88.2
50	17.20	14.18	13.06	13.21	14.97	17.11	19.67	20.14	40- 50	65.89	776.8	96.3,96.3
60	8.467	7.861	7.606	7.822	8.784	9.412	9.779	9.714	50- 60	10.43	787.3	97.6,97.6
70	4.787	4.608	4.642	4.785	5.214	5.356	5.484	5.465	60- 70	6.587	793.8	98.4,98.4
80	1.394	0.4824	0.3175	0.3173	1.364	2.561	3.238	3.104	70- 80	3.936	797.8	98.9,98.9
90	0.0521	0.0497	0.0528	0.0492	0.0986	0.0975	0.1131	0.1041	80- 90	0.4082	798.2	99,99
100	0.1039	0.1218	0.1433	0.1324	0.2049	0.1752	0.1562	0.1627	90-100	0.1034	798.3	99,99
110	0.3419	0.3718	0.4015	0.3915	0.4561	0.4141	0.3878	0.3944	100-110	0.2757	798.6	99,99
120	0.7249	0.7755	0.8217	0.8133	0.8599	0.7954	0.7550	0.7586	110-120	0.5671	799.1	99.1,99.1
130	1.418	1.510	1.579	1.568	1.606	1.503	1.440	1.436	120-130	0.9921	800.1	99.2,99.2
140	2.396	2.492	2.563	2.551	2.579	2.457	2.393	2.395	130-140	1.525	801.7	99.4,99.4
150	3.292	3.347	3.448	3.378	3.423	3.290	3.277	3.259	140-150	1.832	803.5	99.6,99.6
160	3.620	3.650	3.695	3.609	3.605	3.591	3.639	3.651	150-160	1.635	805.1	99.8,99.8
170	3.579	3.594	3.545	3.523	3.532	3.536	3.591	3.612	160-170	1.026	806.2	100,100
180	3.540	3.597	3.555	3.602	3.536	3.598	3.545	3.609	170-180	0.3387	806.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 764.85 lm

%lum = 94.8%

%lamp = 94.8%

Conical surface Flux(120deg): 787.26 lm

%lum = 97.6%

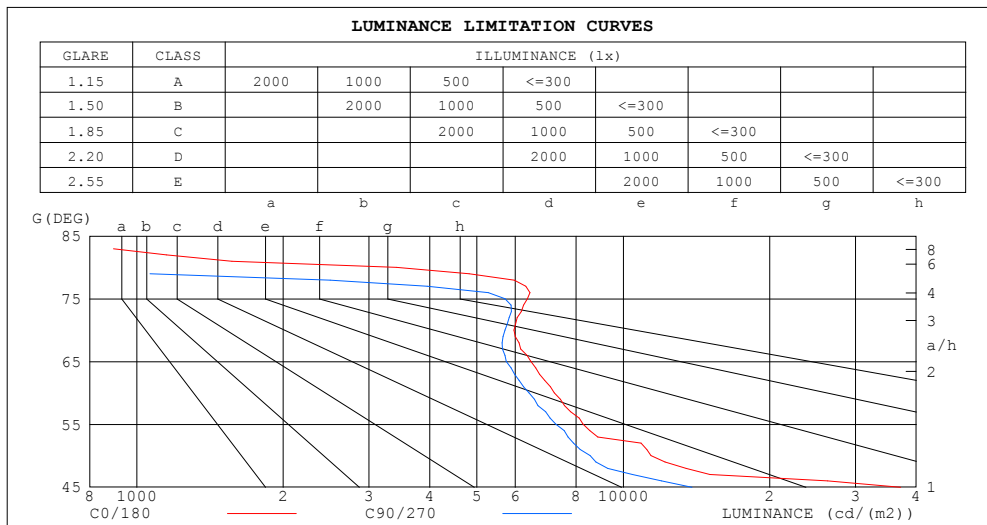
%lamp = 97.6%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	703	263
80	3420	769
75	6353	5710
70	5962	5709
65	6454	5748
60	7213	6399
55	8265	7270
50	11396	8546
45	37178	13837

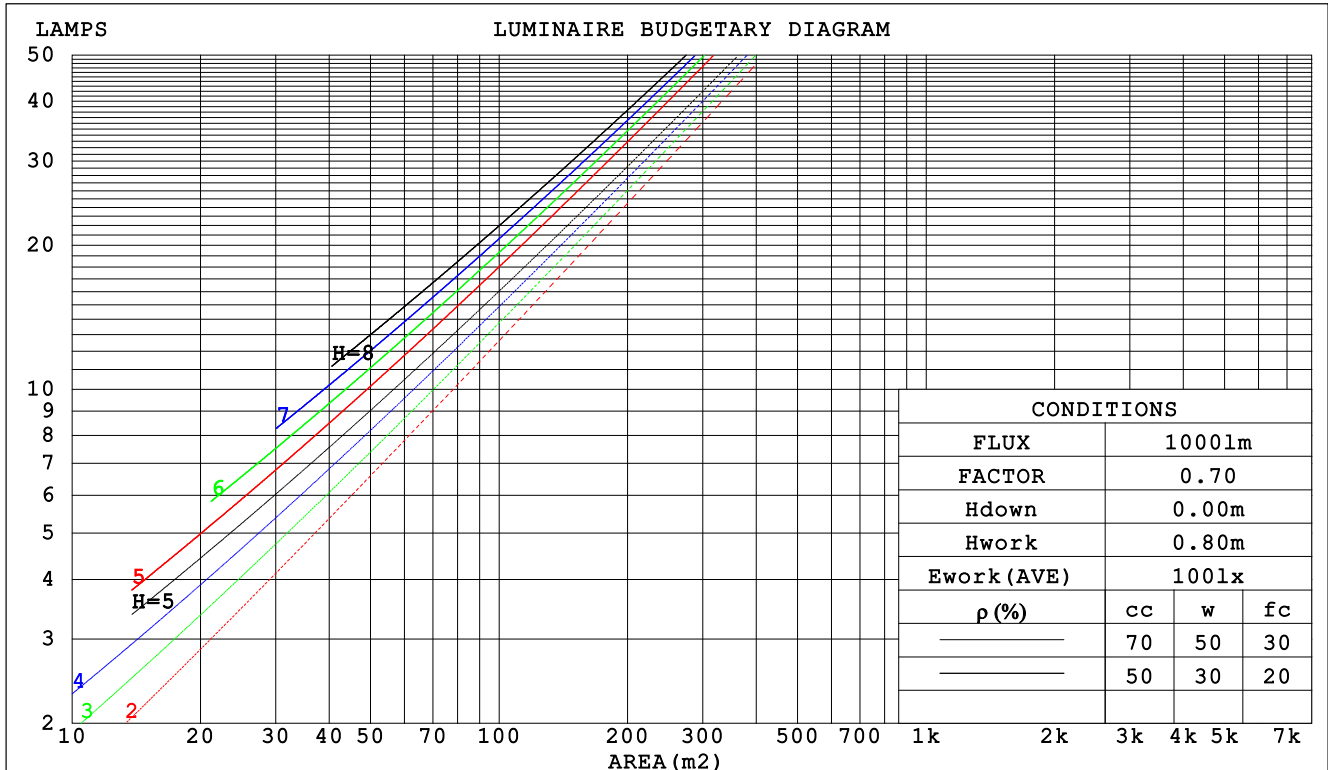
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:#55MM	Shielding 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.01	1.01	1.01	.99
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.97	.96	.95	.94	.93
2.0	1.03	.99	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.91	.90	.88	.86
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.84	.82	.80
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.75	.69	.65	.74	.68	.64	.72	.68	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.71	.65	.61	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.58
9.0	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55
10.0	.64	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.61	.56	.53	.52



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:#55MM	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	.179	.102	.032	.172	.098	.031	.159	.091	.029	.147	.085	.027	.136	.079	.025		
2.0	.172	.094	.029	.166	.091	.028	.155	.086	.027	.144	.081	.025	.135	.076	.024		
3.0	.163	.087	.026	.158	.085	.025	.148	.080	.024	.140	.077	.023	.131	.073	.023		
4.0	.155	.080	.024	.150	.079	.023	.142	.075	.023	.134	.072	.022	.127	.069	.021		
5.0	.147	.075	.022	.143	.074	.021	.136	.071	.021	.129	.068	.020	.123	.066	.020		
6.0	.140	.070	.020	.137	.069	.020	.130	.067	.019	.124	.065	.019	.119	.062	.019		
7.0	.133	.066	.019	.130	.065	.019	.125	.063	.018	.119	.061	.018	.114	.059	.017		
8.0	.127	.062	.018	.125	.061	.017	.120	.060	.017	.115	.058	.017	.110	.057	.017		
9.0	.122	.059	.016	.119	.058	.016	.115	.057	.016	.110	.055	.016	.106	.054	.016		
10.0	.117	.056	.016	.114	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015		

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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.179	.165	.153	.153	.142	.131	.105	.098	.091	.060	.056	.053	.019	.018	.017	
2.0	.164	.140	.120	.141	.121	.104	.096	.084	.073	.056	.049	.043	.018	.016	.014	
3.0	.152	.122	.097	.130	.105	.084	.089	.073	.059	.052	.043	.035	.017	.014	.011	
4.0	.142	.107	.080	.122	.092	.070	.084	.064	.049	.048	.038	.029	.016	.012	.010	
5.0	.133	.095	.068	.114	.082	.059	.079	.058	.042	.046	.034	.025	.015	.011	.008	
6.0	.125	.086	.058	.108	.075	.050	.074	.052	.036	.043	.031	.021	.014	.010	.007	
7.0	.119	.078	.050	.102	.068	.044	.071	.048	.031	.041	.028	.018	.013	.009	.006	
8.0	.113	.072	.044	.097	.063	.039	.067	.044	.027	.039	.026	.016	.013	.009	.005	
9.0	.108	.067	.039	.093	.058	.034	.064	.041	.024	.037	.024	.015	.012	.008	.005	
10.0	.103	.063	.036	.089	.054	.031	.062	.038	.022	.036	.023	.013	.012	.007	.004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME:					TYPE:3000K CRI90			WEIGHT:		
SPEC.:RAR40R-12-30K-MR16					DIM.:			SERIAL No.:1		
MFR.: RAYHIL					SUR.: ϕ 55MM			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	22.2	23.1	22.4	23.3	23.5	21.2	22.2	21.5	22.3	22.5
3H	22.1	22.9	22.3	23.1	23.4	21.1	22.0	21.4	22.2	22.4
4H	22.0	22.9	22.3	23.1	23.3	21.1	21.9	21.4	22.2	22.4
6H	22.0	22.8	22.3	23.0	23.3	21.0	21.8	21.4	22.1	22.3
8H	21.9	22.7	22.3	23.0	23.2	21.0	21.7	21.3	22.0	22.3
12H	21.9	22.6	22.2	22.9	23.2	20.9	21.6	21.3	21.9	22.2
4H 2H	21.9	22.8	22.2	23.0	23.2	21.0	21.8	21.3	22.1	22.3
3H	21.9	22.6	22.2	22.9	23.2	21.0	21.7	21.3	22.0	22.3
4H	21.9	22.5	22.2	22.8	23.1	21.0	21.6	21.3	21.9	22.3
6H	21.8	22.4	22.2	22.7	23.1	20.9	21.5	21.3	21.8	22.2
8H	21.8	22.3	22.2	22.7	23.1	20.8	21.4	21.3	21.7	22.1
12H	21.7	22.2	22.2	22.6	23.0	20.8	21.3	21.2	21.7	22.1
8H 4H	21.8	22.3	22.2	22.6	23.0	20.9	21.4	21.3	21.8	22.1
6H	21.7	22.1	22.2	22.6	23.0	20.8	21.2	21.2	21.6	22.1
8H	21.7	22.0	22.1	22.5	22.9	20.7	21.1	21.2	21.5	22.0
12H	21.6	21.9	22.1	22.4	22.9	20.7	21.0	21.2	21.5	22.0
12H 4H	21.7	22.2	22.1	22.6	23.0	20.8	21.3	21.2	21.7	22.1
6H	21.7	22.0	22.1	22.5	22.9	20.7	21.1	21.2	21.5	22.0
8H	21.6	21.9	22.1	22.4	22.9	20.7	21.0	21.2	21.5	22.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 8.4					+ 3.0 / - 8.6				
1.5H	+ 5.5 / - 8.0					+ 5.6 / - 8.1				
2.0H	+ 6.3 / - 1.6					+ 1.7 / - 0.7				

CIE Pub.117, 806.5 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:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

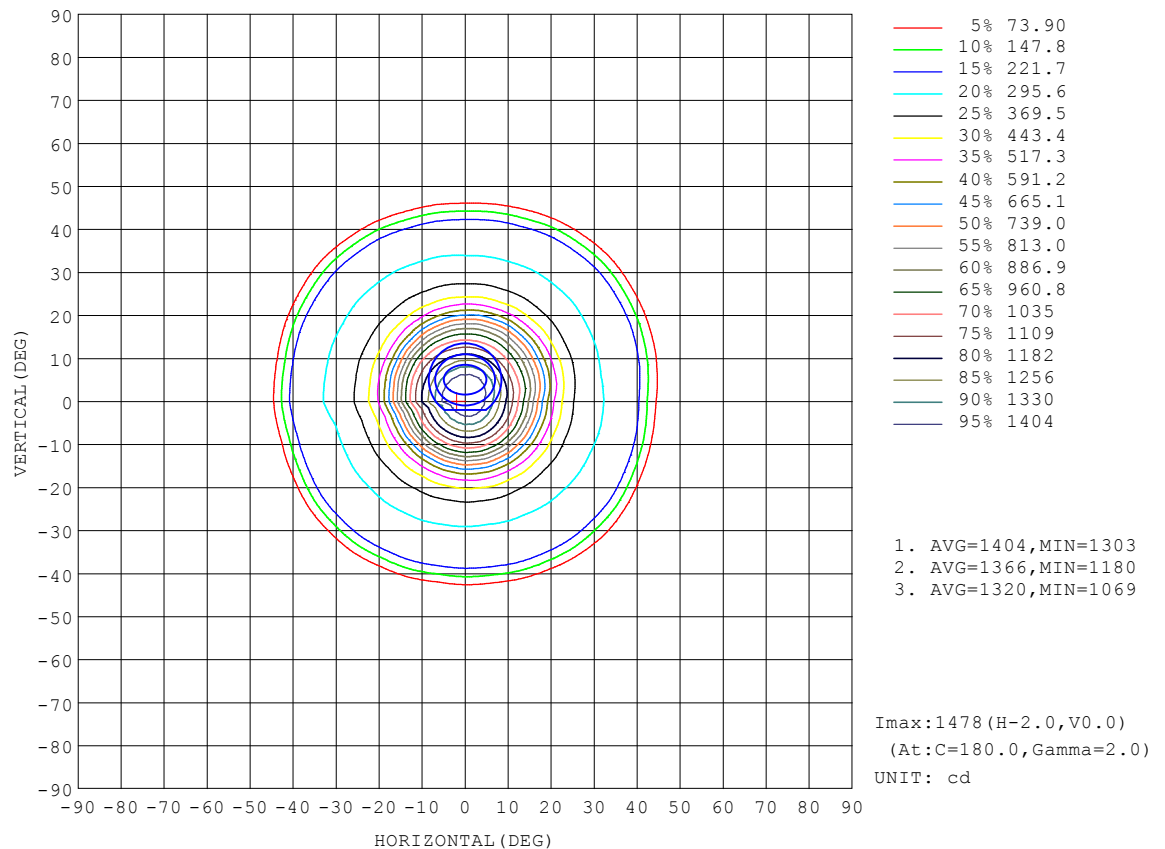
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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

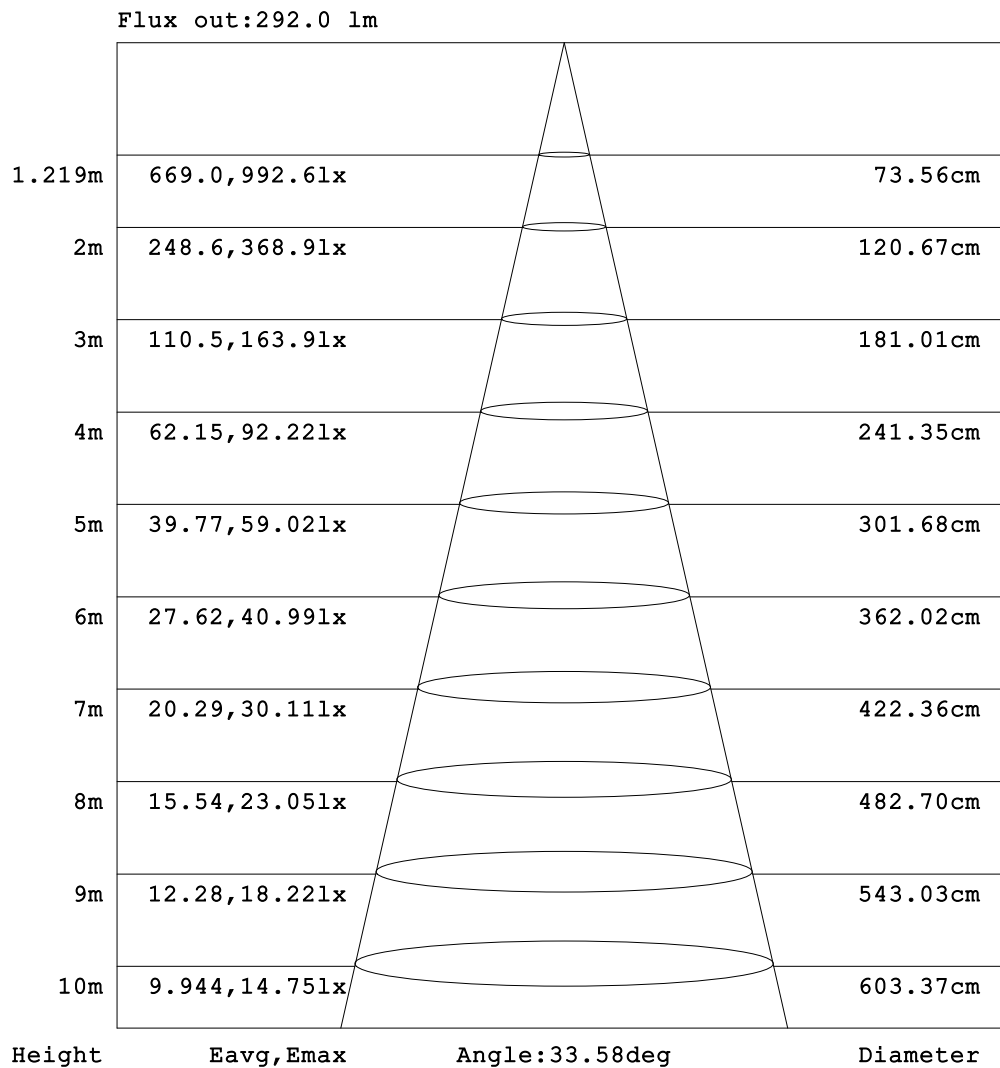


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.620m [K=1.0000]
Remarks:

AAI Figure

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



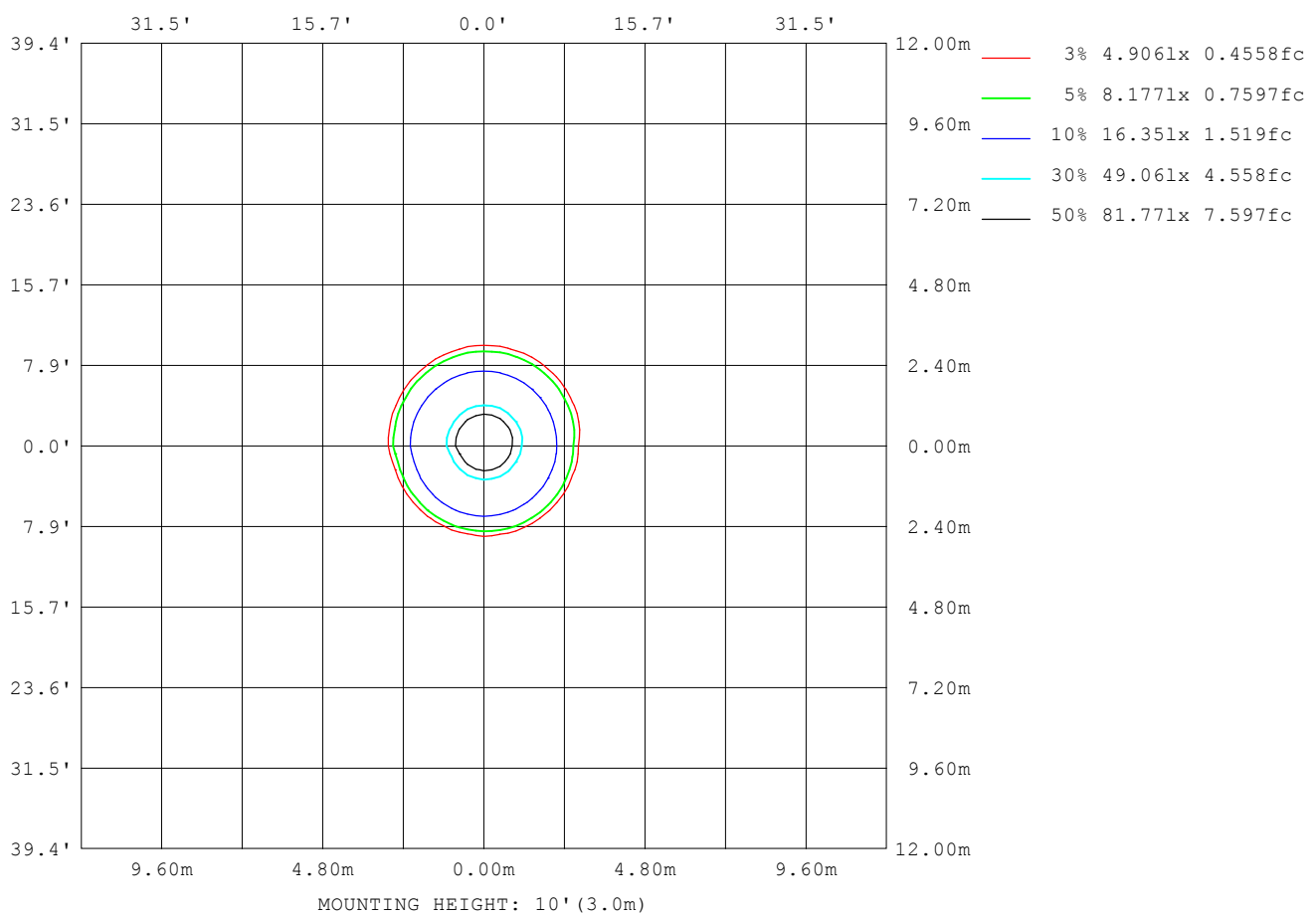
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LED Avg.L Report

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

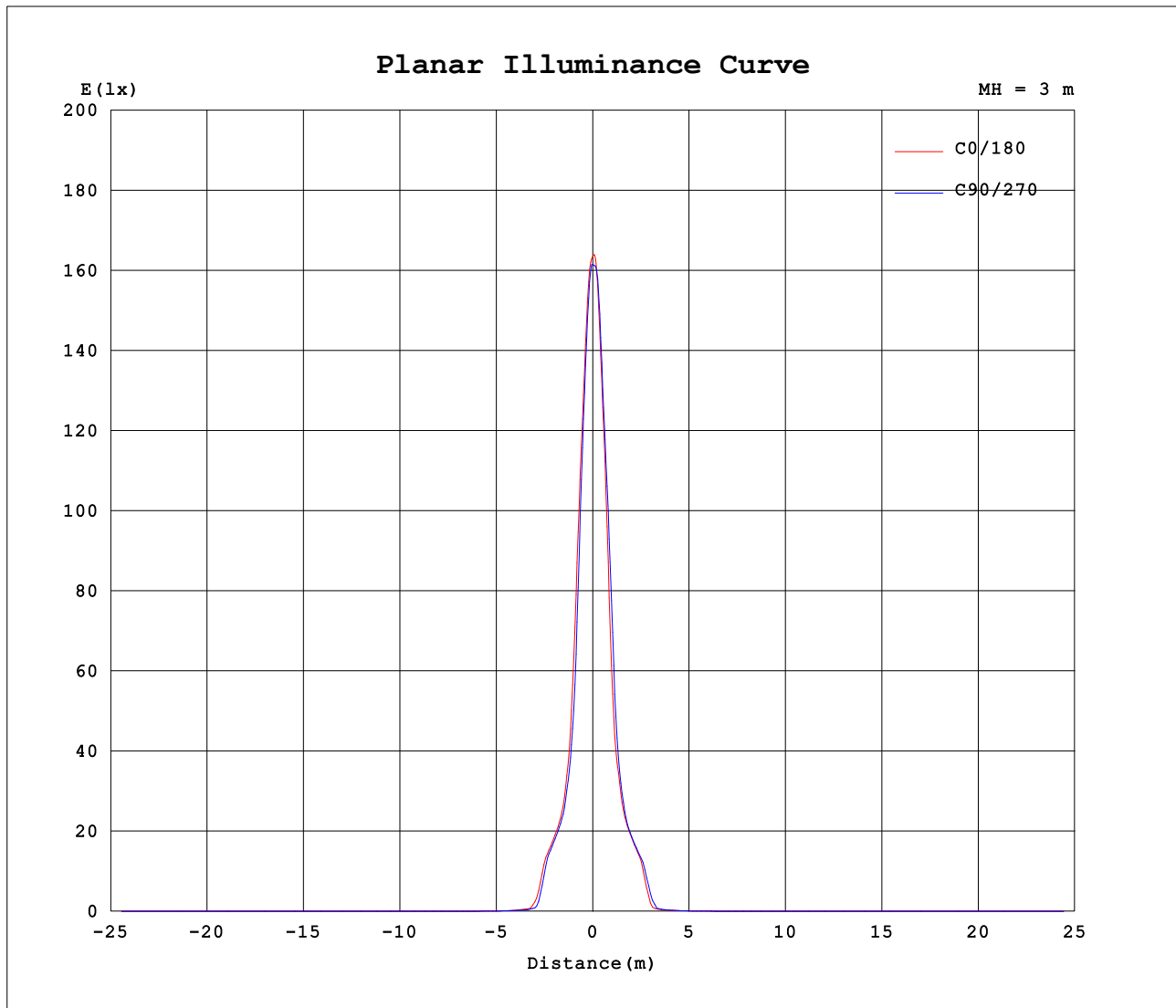
AvgL	cd/m2
L_0~180 (65) av	6482
L_0~180 (75) av	6651
L_0~180 (85) av	729
L_90~270 (65) av	6539
L_90~270 (75) av	6487
L_90~270 (85) av	844
L_45 (65) av	6524
L_45 (75) av	6563
L_45 (85) av	810

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-11-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.620m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:#55MM	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	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455
5	1375	1375	1365	1369	1359	1364	1355	1359	1347	1351	1340	1345	1336	1346	1339	1352	1351	1368	1405
10	1145	1139	1133	1129	1122	1118	1110	1106	1096	1093	1083	1084	1081	1089	1092	1103	1111	1126	1172
15	860	849	827	815	790	777	754	746	727	723	708	708	701	711	714	735	750	782	862
20	539	530	516	505	497	482	467	465	454	453	446	448	444	452	451	461	464	479	520
25	371	368	361	359	350	349	342	342	337	338	335	339	337	341	341	350	352	361	383
30	305	304	301	299	296	295	293	292	290	291	291	292	292	294	295	297	298	301	308
35	279	278	276	275	273	272	270	269	267	268	267	268	268	269	269	272	273	276	283
40	234	232	221	219	206	204	192	191	179	179	171	177	173	183	182	194	197	213	246
45	61.7	42.9	44.8	34.3	44.2	27.6	24.8	24.3	23.4	23.3	22.7	23.0	22.7	23.2	23.3	24.6	25.3	30.4	54.3
50	17.2	16.8	16.0	15.4	14.5	13.9	13.3	13.2	13.0	13.1	13.0	13.0	13.0	13.2	13.2	13.4	13.5	13.8	15.0
55	11.1	11.0	10.7	10.7	10.4	10.3	10.1	10.0	9.82	9.91	9.80	9.94	9.93	10.2	10.2	10.5	10.6	10.9	11.4
60	8.47	8.38	8.17	8.08	7.89	7.83	7.66	7.66	7.54	7.61	7.52	7.63	7.63	7.80	7.84	8.03	8.11	8.34	8.78
65	6.40	6.34	6.16	6.08	5.93	5.90	5.80	5.81	5.74	5.78	5.76	5.82	5.83	5.93	5.97	6.07	6.12	6.25	6.60
70	4.79	4.77	4.69	4.68	4.60	4.61	4.56	4.59	4.57	4.64	4.63	4.70	4.70	4.78	4.79	4.87	4.90	5.00	5.21
75	3.86	3.84	3.77	3.74	3.66	3.63	3.55	3.53	3.47	3.51	3.47	3.55	3.53	3.66	3.68	3.81	3.87	4.02	4.31
80	1.39	1.21	0.74	0.61	0.50	0.46	0.39	0.37	0.33	0.32	0.29	0.30	0.29	0.31	0.32	0.37	0.39	0.49	1.36
85	0.14	0.12	0.12	0.10	0.10	0.08	0.09	0.06	0.08	0.05	0.07	0.05	0.07	0.05	0.07	0.06	0.09	0.08	0.16
90	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	0.10
95	0.05	0.07	0.05	0.06	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	0.13
100	0.10	0.12	0.11	0.13	0.11	0.13	0.12	0.14	0.13	0.14	0.13	0.14	0.13	0.14	0.12	0.13	0.11	0.13	0.20
105	0.20	0.22	0.21	0.23	0.23	0.24	0.23	0.25	0.24	0.26	0.24	0.26	0.24	0.26	0.24	0.25	0.23	0.23	0.32
110	0.34	0.36	0.35	0.37	0.36	0.38	0.37	0.39	0.39	0.40	0.39	0.40	0.39	0.40	0.38	0.39	0.37	0.37	0.46
115	0.51	0.53	0.52	0.54	0.54	0.56	0.56	0.57	0.57	0.58	0.58	0.59	0.57	0.58	0.57	0.57	0.55	0.55	0.63
120	0.72	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.82	0.83	0.82	0.82	0.81	0.80	0.78	0.77	0.86
125	1.02	1.03	1.05	1.07	1.08	1.10	1.12	1.13	1.14	1.15	1.16	1.16	1.16	1.15	1.14	1.12	1.11	1.08	1.18
130	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.55	1.57	1.58	1.59	1.59	1.59	1.57	1.56	1.54	1.52	1.49	1.61
135	1.89	1.91	1.93	1.95	1.98	1.99	2.02	2.03	2.06	2.06	2.08	2.07	2.07	2.05	2.04	2.01	1.99	1.96	2.08
140	2.40	2.42	2.44	2.46	2.48	2.50	2.52	2.54	2.56	2.56	2.57	2.57	2.57	2.56	2.54	2.51	2.49	2.46	2.58
145	2.88	2.90	2.92	2.94	2.95	2.98	2.99	3.02	3.04	3.05	3.05	3.05	3.04	3.02	3.00	2.99	2.96	2.94	3.05
150	3.29	3.32	3.32	3.33	3.33	3.36	3.38	3.42	3.43	3.45	3.43	3.43	3.40	3.39	3.37	3.36	3.34	3.34	3.42
155	3.56	3.58	3.56	3.57	3.56	3.59	3.61	3.65	3.65	3.67	3.64	3.63	3.59	3.59	3.56	3.55	3.55	3.55	3.61
160	3.62	3.62	3.62	3.63	3.63	3.67	3.67	3.69	3.70	3.70	3.67	3.65	3.62	3.62	3.59	3.57	3.57	3.57	3.60
165	3.60	3.63	3.63	3.64	3.65	3.65	3.67	3.69	3.69	3.65	3.64	3.62	3.60	3.59	3.60	3.57	3.56	3.55	3.59
170	3.58	3.57	3.59	3.59	3.59	3.60	3.60	3.59	3.58	3.55	3.53	3.52	3.52	3.52	3.53	3.54	3.52	3.49	3.53
175	3.52	3.54	3.55	3.58	3.59	3.60	3.60	3.57	3.53	3.53	3.51	3.53	3.52	3.56	3.54	3.53	3.50	3.48	3.51
180	3.54	3.55	3.55	3.59	3.59	3.60	3.57	3.54	3.54	3.55	3.56	3.56	3.59	3.60	3.60	3.58	3.54	3.55	3.54

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:#55MM	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	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455	1455		
5	1404	1416	1416	1426	1426	1434	1433	1440	1438	1443	1441	1441	1436	1433	1424	1420	1408		
10	1181	1186	1195	1207	1210	1218	1219	1230	1230	1240	1237	1239	1230	1221	1211	1200	1190		
15	875	903	921	948	960	978	985	994	999	1001	998	994	981	970	956	944	924		
20	539	546	557	583	596	625	637	662	668	684	680	685	671	666	643	629	600		
25	384	392	394	403	405	414	414	423	421	428	425	430	425	426	416	411	396		
30	309	311	311	315	316	320	320	323	322	325	324	325	322	321	317	315	311		
35	283	286	286	288	289	290	290	292	291	292	291	292	290	290	288	287	284		
40	247	255	256	260	261	263	263	265	266	267	267	268	266	265	262	260	256		
45	57.3	69.8	73.4	89.6	90.9	105	106	117	117	122	119	126	115	116	103	97.8	80.8		
50	15.1	15.8	16.1	16.9	17.3	18.3	18.6	19.5	19.7	20.4	20.3	20.6	20.2	20.1	19.5	19.3	18.6		
55	11.4	11.7	11.8	12.1	12.2	12.5	12.6	12.8	12.9	13.1	13.2	13.3	13.1	12.9	12.4	12.2	11.9		
60	8.85	9.11	9.20	9.39	9.43	9.61	9.64	9.78	9.78	9.91	9.87	9.91	9.74	9.68	9.48	9.36	9.12		
65	6.63	6.80	6.81	6.99	7.00	7.19	7.20	7.38	7.35	7.49	7.44	7.47	7.34	7.30	7.14	7.09	6.88		
70	5.19	5.27	5.26	5.35	5.36	5.42	5.42	5.49	5.48	5.53	5.51	5.52	5.49	5.44	5.35	5.29	5.12		
75	4.31	4.38	4.36	4.45	4.43	4.46	4.45	4.48	4.46	4.48	4.44	4.44	4.39	4.35	4.26	4.22	4.10		
80	1.49	1.88	2.02	2.49	2.63	2.97	3.04	3.24	3.24	3.34	3.26	3.29	3.14	3.07	2.83	2.70	2.25		
85	0.18	0.18	0.20	0.21	0.23	0.24	0.26	0.28	0.29	0.31	0.31	0.32	0.31	0.30	0.27	0.25	0.23		
90	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.10		
95	0.11	0.12	0.11	0.12	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.11		
100	0.18	0.19	0.17	0.18	0.17	0.18	0.16	0.17	0.16	0.17	0.15	0.17	0.15	0.17	0.16	0.18	0.17		
105	0.29	0.30	0.28	0.29	0.27	0.28	0.26	0.28	0.26	0.27	0.26	0.27	0.26	0.27	0.26	0.28	0.28		
110	0.43	0.44	0.42	0.42	0.40	0.41	0.39	0.40	0.39	0.40	0.38	0.40	0.39	0.40	0.39	0.42	0.41		
115	0.61	0.61	0.59	0.59	0.57	0.57	0.56	0.56	0.55	0.56	0.54	0.56	0.55	0.56	0.56	0.58	0.58		
120	0.84	0.83	0.81	0.81	0.79	0.78	0.76	0.77	0.75	0.76	0.75	0.76	0.75	0.77	0.77	0.79	0.79		
125	1.16	1.14	1.12	1.11	1.09	1.08	1.06	1.05	1.04	1.04	1.03	1.04	1.04	1.05	1.06	1.08	1.10		
130	1.58	1.56	1.54	1.51	1.50	1.48	1.46	1.45	1.44	1.43	1.43	1.42	1.43	1.44	1.46	1.48	1.51		
135	2.06	2.03	2.01	1.98	1.97	1.94	1.93	1.91	1.91	1.89	1.89	1.89	1.90	1.91	1.93	1.95	1.99		
140	2.55	2.52	2.50	2.47	2.45	2.43	2.41	2.40	2.39	2.38	2.38	2.38	2.39	2.40	2.43	2.45	2.49		
145	3.01	2.99	2.95	2.93	2.91	2.89	2.88	2.87	2.86	2.86	2.85	2.85	2.86	2.87	2.90	2.93	2.96		
150	3.38	3.36	3.32	3.30	3.28	3.28	3.27	3.28	3.28	3.27	3.26	3.25	3.25	3.27	3.30	3.32	3.35		
155	3.57	3.57	3.54	3.54	3.50	3.53	3.51	3.55	3.56	3.57	3.55	3.55	3.53	3.55	3.56	3.59	3.61		
160	3.60	3.57	3.59	3.59	3.60	3.61	3.61	3.63	3.64	3.67	3.66	3.67	3.66	3.65	3.63	3.63	3.68		
165	3.59	3.58	3.59	3.59	3.59	3.61	3.61	3.63	3.67	3.68	3.70	3.68	3.69	3.66	3.63	3.65	3.67		
170	3.53	3.55	3.55	3.55	3.53	3.52	3.54	3.54	3.59	3.61	3.63	3.62	3.61	3.61	3.60	3.60	3.61		
175	3.50	3.53	3.54	3.55	3.53	3.51	3.49	3.51	3.52	3.54	3.57	3.59	3.60	3.61	3.59	3.57	3.58		
180	3.55	3.55	3.58	3.60	3.60	3.57	3.53	3.54	3.55	3.56	3.56	3.59	3.61	3.61	3.58	3.56	3.56		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks: