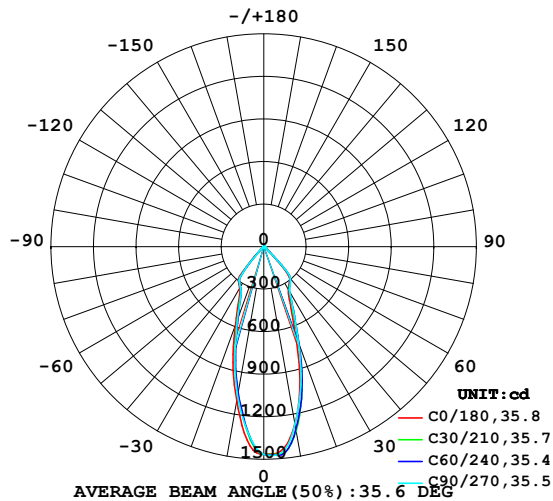


LUMINAIRE PHOTOMETRIC TEST REPORT

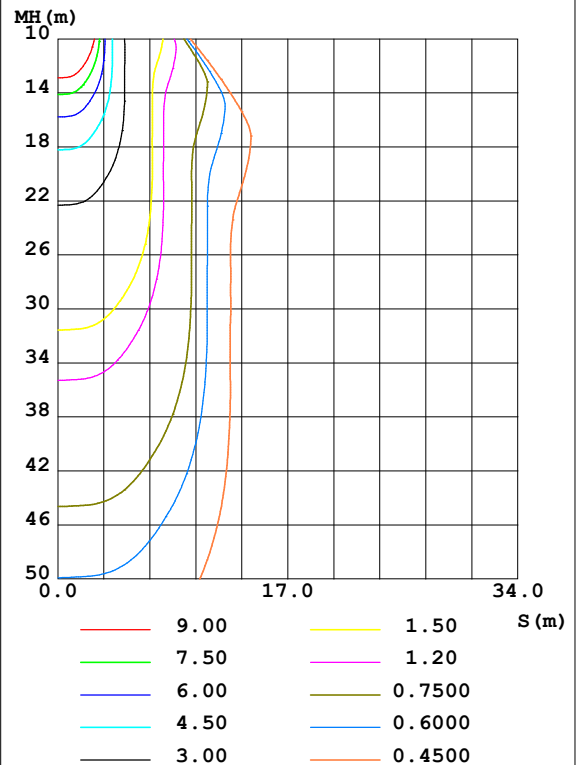
NAME:	TYPE:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.36 lm/W			
MODEL		I _{max} (cd)	1477	S/MH (C0/180)	0.55
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH (C90/270)	0.52
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	879.65	η UP,DN (C0-180)	0.5,52.7
NOMINAL FLUX(lm)	879.65	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.6,46.3
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	1267	1319	1272	1149	1103	1046	1071	1194	0- 10	125.7	125.7	14.3,14.3
20	652.2	725.9	717.1	619.8	586.3	540.3	544.3	604.9	10- 20	247.4	373.2	42.4,42.4
30	347.7	364.2	366.8	349.4	339.4	330.8	332.1	343.9	20- 30	205.6	578.8	65.8,65.8
40	283.3	293.6	293.7	264.3	237.5	187.3	197.8	267.3	30- 40	193.9	772.6	87.8,87.8
50	19.51	23.49	22.36	17.28	15.77	14.86	14.96	17.54	40- 50	74.64	847.3	96.3,96.3
60	10.23	10.61	10.54	9.736	9.282	8.718	8.814	9.929	50- 60	11.67	859.0	97.6,97.6
70	5.546	5.843	5.726	5.119	4.988	4.891	5.009	5.456	60- 70	7.266	866.2	98.5,98.5
80	2.235	2.922	2.595	0.8884	0.6392	0.4364	0.4887	1.467	70- 80	4.004	870.2	98.9,98.9
90	0.0554	0.0579	0.0510	0.0514	0.1088	0.1094	0.1114	0.1028	80- 90	0.3641	870.6	99,99
100	0.0920	0.0867	0.0982	0.1180	0.2435	0.2593	0.2452	0.2103	90-100	0.1178	870.7	99,99
110	0.3406	0.3106	0.3286	0.3824	0.5367	0.5700	0.5602	0.4986	100-110	0.3082	871.0	99,99
120	0.7605	0.7023	0.7232	0.8134	1.014	1.090	1.079	0.9686	110-120	0.6392	871.7	99.1,99.1
130	1.488	1.374	1.401	1.568	1.857	1.975	1.966	1.785	120-130	1.119	872.8	99.2,99.2
140	2.477	2.351	2.387	2.580	2.878	2.988	2.975	2.798	130-140	1.672	874.4	99.4,99.4
150	3.440	3.325	3.385	3.481	3.720	3.728	3.782	3.637	140-150	1.967	876.4	99.6,99.6
160	3.890	3.869	3.903	3.869	3.927	3.915	3.952	3.941	150-160	1.747	878.2	99.8,99.8
170	3.946	3.974	3.950	3.910	3.905	3.855	3.907	3.930	160-170	1.114	879.3	100,100
180	3.971	4.009	3.948	4.015	3.973	4.009	3.930	4.016	170-180	0.3749	879.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 832.88 lm

%lum = 94.7%

%lamp = 94.7%

Conical surface Flux(120deg): 858.96 lm

%lum = 97.6%

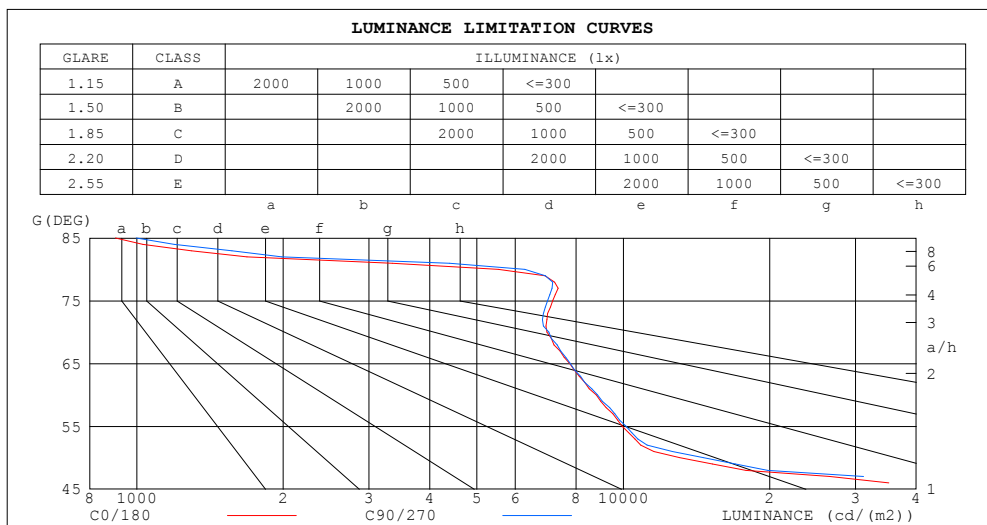
%lamp = 97.6%

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	904	997
80	5534	6273
75	7162	6989
70	6971	7029
65	7764	7785
60	8800	8846
55	9954	10122
50	13047	14603
45	57641	77915

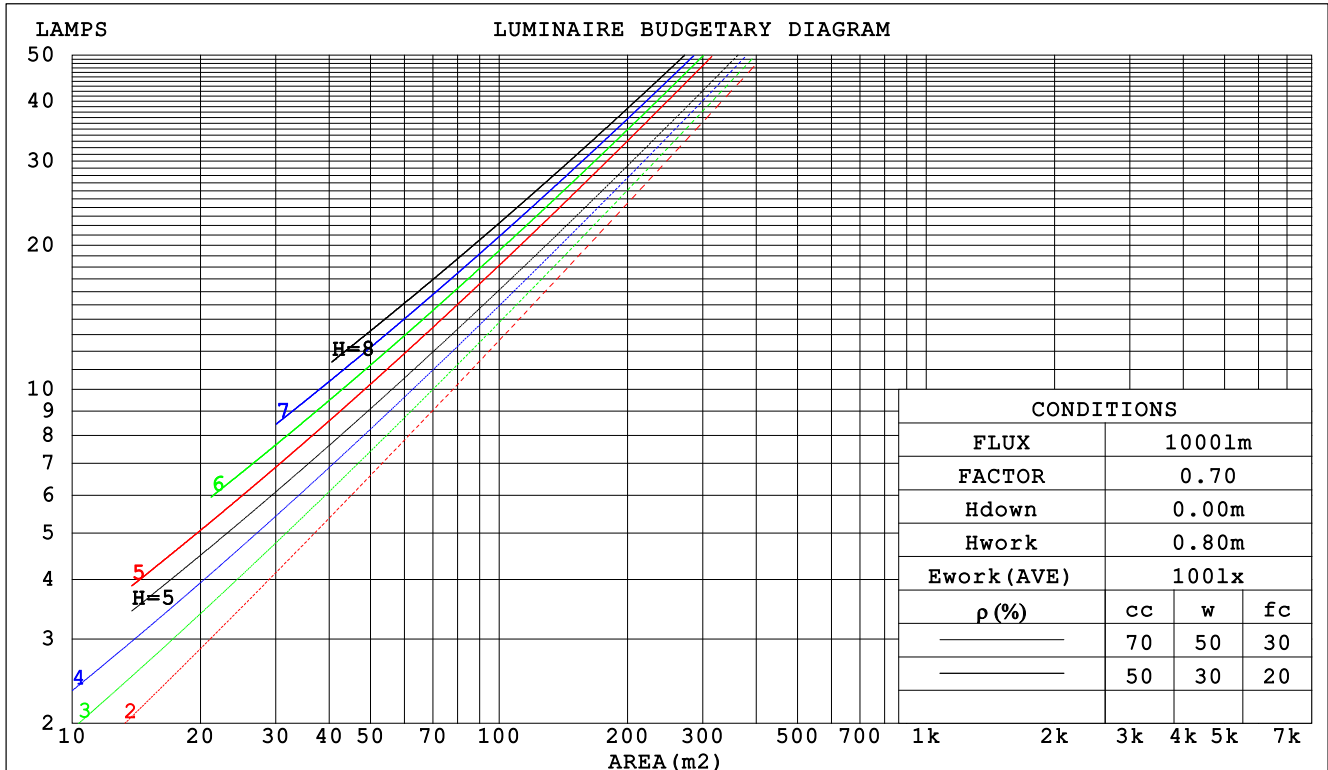
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-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	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	1.01	1.01	1.01	.99
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.00	.99	.99	.97	.96	.95	.94	.92
2.0	1.03	.98	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.85	.83	.86	.84	.81	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.78	.76	.74
5.0	.84	.78	.73	.83	.77	.73	.81	.76	.72	.79	.75	.72	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.68	.63	.72	.67	.63	.71	.66	.63	.69	.65	.62	.61
8.0	.70	.64	.60	.69	.63	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.56	.63	.58	.55	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.60	.55	.52	.51



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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-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	.181	.103	.033	.174	.099	.032	.161	.092	.029	.149	.086	.028	.138	.080	.026		
2.0	.173	.095	.029	.168	.092	.028	.156	.087	.027	.146	.082	.026	.137	.077	.024		
3.0	.165	.088	.026	.160	.086	.026	.150	.081	.025	.141	.078	.024	.133	.074	.023		
4.0	.157	.081	.024	.152	.080	.024	.144	.076	.023	.136	.073	.022	.129	.070	.021		
5.0	.149	.076	.022	.145	.075	.022	.138	.072	.021	.131	.069	.021	.125	.067	.020		
6.0	.142	.071	.020	.139	.070	.020	.132	.068	.020	.126	.066	.019	.120	.063	.019		
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.121	.062	.018	.116	.060	.018		
8.0	.129	.063	.018	.127	.062	.018	.121	.061	.017	.117	.059	.017	.112	.058	.017		
9.0	.124	.060	.017	.121	.059	.017	.116	.058	.016	.112	.056	.016	.108	.055	.016		
10.0	.118	.057	.016	.116	.056	.016	.112	.055	.015	.108	.054	.015	.104	.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	.152	.153	.142	.131	.105	.098	.091	.060	.056	.053	.019	.018	.017	
2.0	.164	.140	.120	.141	.121	.104	.097	.084	.073	.056	.049	.043	.018	.016	.014	
3.0	.152	.122	.097	.131	.105	.084	.090	.073	.059	.052	.043	.035	.017	.014	.011	
4.0	.142	.107	.080	.122	.092	.070	.084	.064	.049	.049	.038	.029	.016	.012	.010	
5.0	.134	.095	.067	.115	.083	.059	.079	.058	.041	.046	.034	.025	.015	.011	.008	
6.0	.126	.086	.058	.108	.075	.050	.075	.052	.035	.043	.031	.021	.014	.010	.007	
7.0	.120	.079	.050	.103	.068	.044	.071	.048	.031	.041	.028	.018	.013	.009	.006	
8.0	.114	.072	.044	.098	.063	.038	.068	.044	.027	.039	.026	.016	.013	.009	.005	
9.0	.109	.067	.039	.094	.058	.034	.065	.041	.024	.038	.024	.015	.012	.008	.005	
10.0	.104	.063	.035	.090	.055	.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 :4000K CRI90			WEIGHT :			
SPEC. :RAR40R-12-40K-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	2H	24.1	25.1	24.3	25.2	25.4	24.3	25.3	24.6	25.5	25.7
	3H	24.0	24.9	24.3	25.1	25.3	24.2	25.1	24.5	25.3	25.5
	4H	23.9	24.8	24.2	25.0	25.2	24.2	25.0	24.4	25.2	25.5
	6H	23.9	24.7	24.2	24.9	25.2	24.1	24.9	24.4	25.1	25.4
	8H	23.8	24.6	24.2	24.9	25.1	24.1	24.8	24.4	25.1	25.4
	12H	23.8	24.5	24.1	24.8	25.1	24.0	24.7	24.3	25.0	25.3
4H	2H	23.9	24.7	24.2	24.9	25.2	24.1	24.9	24.4	25.2	25.4
	3H	23.8	24.5	24.1	24.8	25.1	24.0	24.7	24.3	25.0	25.3
	4H	23.7	24.4	24.1	24.7	25.0	23.9	24.6	24.3	24.9	25.2
	6H	23.7	24.3	24.1	24.6	25.0	23.9	24.5	24.3	24.8	25.2
	8H	23.7	24.2	24.1	24.6	24.9	23.9	24.4	24.3	24.8	25.2
	12H	23.6	24.1	24.0	24.5	24.9	23.8	24.3	24.2	24.7	25.1
8H	4H	23.6	24.1	24.0	24.5	24.9	23.8	24.4	24.2	24.7	25.1
	6H	23.6	24.0	24.1	24.5	24.9	23.8	24.2	24.3	24.7	25.1
	8H	23.6	23.9	24.0	24.4	24.8	23.8	24.1	24.2	24.6	25.0
	12H	23.5	23.8	24.0	24.3	24.8	23.7	24.0	24.2	24.5	25.0
12H	4H	23.6	24.1	24.0	24.4	24.9	23.8	24.3	24.2	24.7	25.1
	6H	23.6	23.9	24.0	24.4	24.8	23.8	24.1	24.2	24.6	25.0
	8H	23.5	23.8	24.0	24.3	24.8	23.7	24.0	24.2	24.5	25.0
Variations with the observer position at spacings:											
S = 1.0H	+ 3.3 / - 8.4					+ 3.3 / - 8.4					
1.5H	+ 4.2 / - 8.3					+ 4.0 / - 8.4					
2.0H	+ 6.2 / - 2.7					+ 7.2 / - 3.6					

CIE Pub.117, 879.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)

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:

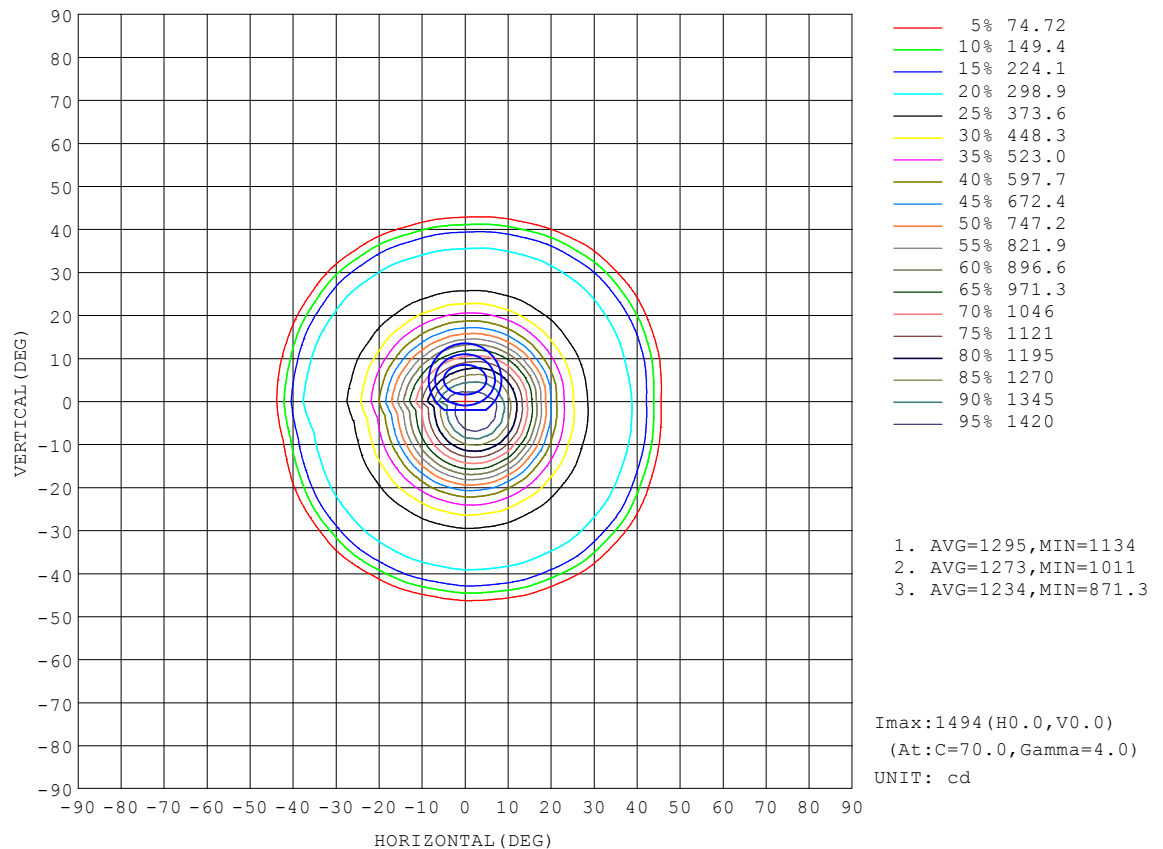
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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME:	TYPE:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

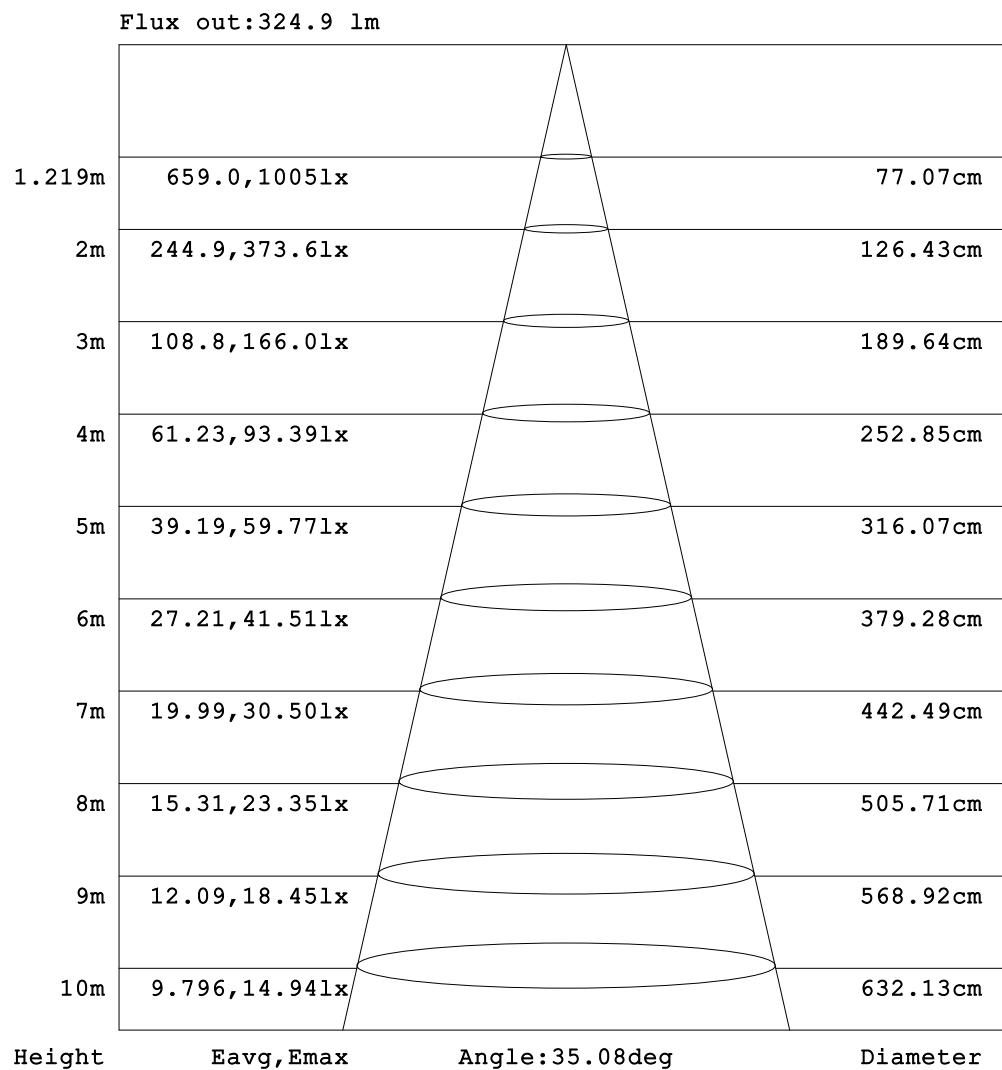


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



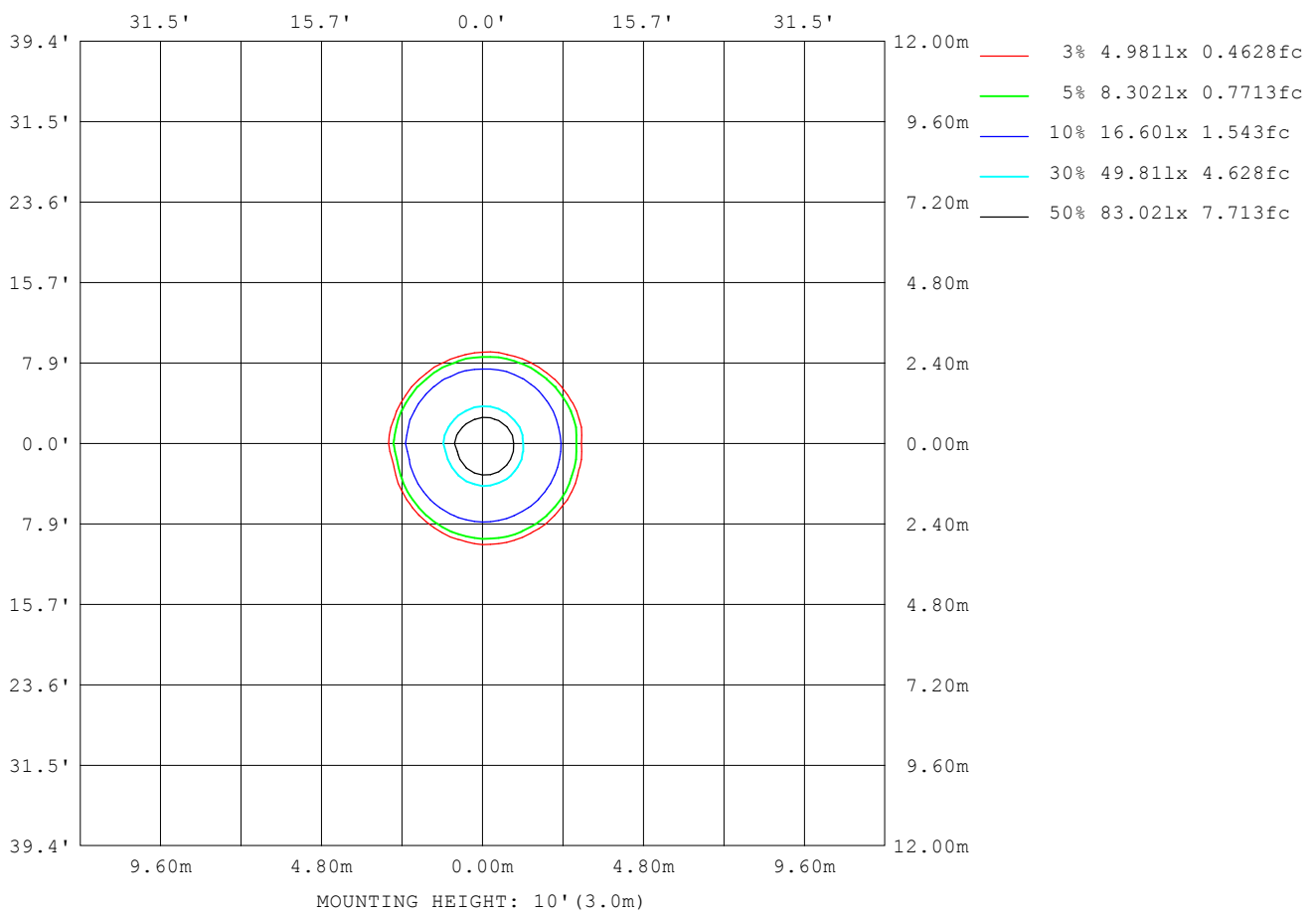
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

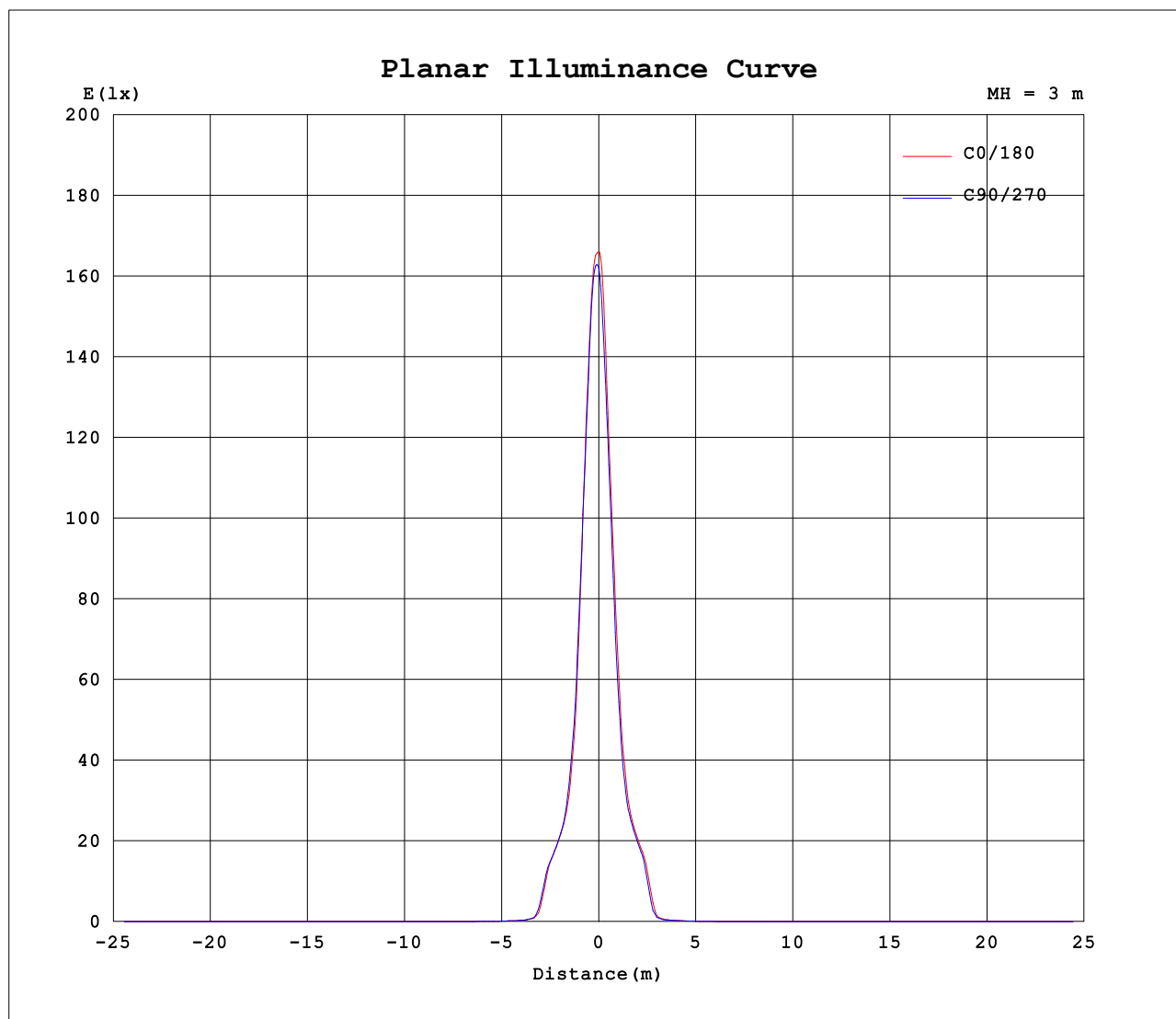
AvgL	cd/m2
L_0~180 (65) av	7273
L_0~180 (75) av	6580
L_0~180 (85) av	785
L_90~270 (65) av	7229
L_90~270 (75) av	6564
L_90~270 (85) av	843
L_45 (65) av	7237
L_45 (75) av	6587
L_45 (85) av	830

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-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	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464
5	1444	1454	1459	1468	1470	1475	1473	1473	1463	1458	1441	1431	1408	1398	1372	1362	1338	1331	1368
10	1267	1291	1295	1318	1312	1325	1308	1310	1284	1272	1243	1221	1189	1162	1135	1110	1088	1068	1103
15	987	1010	1024	1044	1044	1054	1044	1042	1026	1012	987	964	935	909	878	854	827	809	843
20	652	678	689	714	717	735	729	736	722	717	694	677	651	633	607	590	569	558	586
25	445	461	467	483	484	496	497	500	497	494	481	476	460	453	437	428	412	406	418
30	348	352	354	360	361	367	365	369	366	367	362	360	354	352	347	343	339	337	339
35	316	318	319	322	322	325	324	325	324	326	324	323	319	318	314	312	309	308	310
40	283	287	288	292	292	295	294	295	293	294	290	288	281	274	254	243	221	212	238
45	94.8	115	120	141	137	152	143	149	134	131	108	102	74.4	63.6	62.0	40.1	47.1	29.7	37.4
50	19.5	21.0	21.3	23.0	22.9	24.1	23.3	23.8	22.5	22.4	20.7	20.0	18.5	17.9	16.7	16.2	15.7	15.4	15.8
55	13.3	13.6	13.6	13.9	13.8	14.0	13.9	14.0	13.8	13.8	13.6	13.5	13.2	13.1	12.8	12.6	12.2	12.1	12.4
60	10.2	10.5	10.5	10.6	10.6	10.7	10.6	10.6	10.5	10.5	10.4	10.3	9.98	9.88	9.60	9.46	9.16	9.00	9.28
65	7.63	7.84	7.82	7.93	7.87	7.99	7.90	7.94	7.81	7.84	7.68	7.61	7.39	7.31	7.08	6.99	6.76	6.68	6.96
70	5.55	5.71	5.72	5.83	5.80	5.89	5.83	5.84	5.74	5.73	5.58	5.51	5.29	5.19	5.05	4.98	4.86	4.80	4.99
75	4.31	4.39	4.40	4.46	4.41	4.47	4.41	4.43	4.33	4.31	4.20	4.15	4.01	3.93	3.81	3.73	3.59	3.54	3.77
80	2.24	2.63	2.69	2.93	2.87	2.98	2.86	2.88	2.66	2.59	2.22	1.98	1.41	1.11	0.67	0.59	0.50	0.47	0.64
85	0.18	0.20	0.21	0.23	0.24	0.25	0.24	0.24	0.23	0.21	0.19	0.17	0.16	0.13	0.12	0.10	0.10	0.08	0.14
90	0.06	0.05	0.06	0.05	0.07	0.05	0.07	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.05	0.06	0.11
95	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.07	0.06	0.07	0.05	0.08	0.15
100	0.09	0.10	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.10	0.08	0.11	0.10	0.12	0.11	0.14	0.13	0.16	0.24
105	0.20	0.20	0.18	0.19	0.17	0.18	0.17	0.18	0.17	0.19	0.18	0.21	0.20	0.23	0.23	0.26	0.26	0.28	0.37
110	0.34	0.34	0.32	0.33	0.31	0.31	0.30	0.32	0.31	0.33	0.32	0.35	0.35	0.38	0.38	0.41	0.42	0.44	0.54
115	0.52	0.52	0.50	0.50	0.48	0.49	0.47	0.49	0.48	0.50	0.50	0.53	0.53	0.57	0.57	0.61	0.62	0.64	0.74
120	0.76	0.75	0.73	0.72	0.70	0.70	0.69	0.70	0.71	0.72	0.73	0.76	0.77	0.80	0.82	0.86	0.88	0.90	1.01
125	1.07	1.05	1.03	1.01	1.00	0.99	0.98	0.99	0.99	1.01	1.03	1.06	1.09	1.12	1.16	1.19	1.23	1.26	1.39
130	1.49	1.45	1.43	1.40	1.38	1.36	1.37	1.37	1.39	1.40	1.43	1.46	1.51	1.54	1.59	1.63	1.68	1.71	1.86
135	1.96	1.92	1.90	1.86	1.85	1.83	1.83	1.83	1.85	1.87	1.91	1.94	1.99	2.03	2.09	2.12	2.18	2.21	2.37
140	2.48	2.44	2.41	2.38	2.36	2.34	2.34	2.35	2.37	2.39	2.42	2.46	2.51	2.55	2.61	2.65	2.70	2.74	2.88
145	2.99	2.96	2.92	2.89	2.87	2.86	2.86	2.87	2.88	2.91	2.94	2.98	3.01	3.06	3.09	3.14	3.18	3.23	3.35
150	3.44	3.42	3.38	3.36	3.33	3.32	3.33	3.35	3.36	3.38	3.40	3.43	3.45	3.47	3.49	3.53	3.57	3.62	3.72
155	3.76	3.76	3.71	3.70	3.66	3.68	3.69	3.72	3.72	3.74	3.73	3.74	3.73	3.75	3.75	3.78	3.79	3.82	3.91
160	3.89	3.91	3.86	3.87	3.85	3.89	3.88	3.91	3.89	3.90	3.87	3.89	3.87	3.88	3.86	3.86	3.84	3.87	3.93
165	3.94	3.97	3.95	3.96	3.95	3.97	3.97	3.98	3.97	3.98	3.95	3.96	3.93	3.92	3.92	3.92	3.90	3.88	3.92
170	3.95	3.97	3.97	3.98	3.96	3.98	3.97	3.98	3.98	3.95	3.93	3.92	3.92	3.91	3.91	3.91	3.89	3.86	3.91
175	3.94	3.96	3.97	4.00	3.99	4.02	4.00	3.99	3.94	3.94	3.92	3.94	3.92	3.96	3.94	3.93	3.89	3.85	3.92
180	3.97	3.98	3.97	4.01	4.00	4.02	3.98	3.96	3.94	3.95	3.93	3.97	3.98	4.02	4.01	3.99	3.95	3.96	3.97

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:4000K CRI90	WEIGHT:
SPEC.:RAR40R-12-40K-MR16	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	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	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464	1464		
5	1346	1342	1319	1318	1301	1308	1299	1312	1312	1333	1343	1365	1381	1404	1417	1436	1446		
10	1085	1072	1055	1050	1042	1046	1047	1057	1071	1093	1119	1148	1179	1209	1240	1267	1289		
15	822	810	790	782	767	770	767	778	786	807	828	858	886	924	952	989	1016		
20	569	562	547	544	536	533	533	537	544	553	562	579	593	617	633	664	682		
25	407	403	391	390	385	387	383	387	387	395	399	410	416	429	437	454	460		
30	336	335	332	331	330	331	330	331	332	335	337	340	342	346	348	353	355		
35	307	306	303	302	301	301	300	302	303	306	308	311	313	316	318	321	321		
40	218	212	193	194	181	186	181	193	198	216	227	248	258	276	283	289	290		
45	45.9	29.9	27.8	27.7	26.6	27.1	26.8	27.8	28.5	30.8	41.1	42.4	65.9	70.3	83.6	111	120		
50	15.3	15.3	15.0	15.0	14.8	14.8	14.6	14.8	15.0	15.4	15.7	16.3	16.9	18.2	19.1	20.8	21.6		
55	12.1	12.0	11.7	11.7	11.4	11.4	11.3	11.5	11.6	12.0	12.2	12.5	12.8	13.2	13.4	13.7	13.8		
60	9.07	9.04	8.85	8.82	8.62	8.68	8.61	8.73	8.81	9.08	9.23	9.52	9.75	10.11	10.3	10.6	10.7		
65	6.78	6.75	6.58	6.58	6.42	6.54	6.48	6.61	6.67	6.88	6.93	7.13	7.28	7.58	7.72	7.95	8.01		
70	4.90	4.93	4.88	4.92	4.86	4.93	4.91	4.97	5.01	5.13	5.20	5.30	5.40	5.51	5.62	5.82	5.88		
75	3.68	3.69	3.58	3.63	3.53	3.64	3.61	3.72	3.76	3.95	4.04	4.16	4.24	4.35	4.40	4.51	4.54		
80	0.55	0.54	0.45	0.46	0.41	0.44	0.42	0.48	0.49	0.58	0.64	0.89	1.21	1.73	2.04	2.64	2.84		
85	0.15	0.12	0.13	0.13	0.13	0.11	0.13	0.12	0.14	0.13	0.16	0.15	0.18	0.19	0.22	0.24	0.27		
90	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.11	0.10	0.11		
95	0.14	0.16	0.14	0.16	0.15	0.16	0.14	0.16	0.14	0.15	0.13	0.14	0.12	0.13	0.11	0.12	0.11		
100	0.23	0.25	0.25	0.26	0.25	0.27	0.25	0.27	0.25	0.25	0.23	0.23	0.21	0.21	0.19	0.20	0.17		
105	0.37	0.39	0.38	0.40	0.39	0.41	0.39	0.40	0.38	0.39	0.36	0.37	0.34	0.34	0.31	0.32	0.29		
110	0.53	0.55	0.55	0.57	0.57	0.58	0.57	0.57	0.56	0.56	0.53	0.53	0.50	0.50	0.48	0.47	0.44		
115	0.74	0.76	0.77	0.79	0.79	0.80	0.80	0.79	0.78	0.77	0.75	0.74	0.72	0.70	0.66	0.65	0.63		
120	1.03	1.05	1.07	1.08	1.10	1.10	1.10	1.09	1.08	1.06	1.03	1.01	0.98	0.96	0.93	0.90	0.88		
125	1.42	1.44	1.47	1.48	1.51	1.50	1.51	1.49	1.48	1.45	1.42	1.38	1.35	1.31	1.27	1.24	1.21		
130	1.89	1.91	1.95	1.96	1.99	1.99	2.00	1.98	1.97	1.93	1.90	1.85	1.81	1.76	1.72	1.68	1.64		
135	2.40	2.42	2.46	2.47	2.51	2.50	2.51	2.50	2.48	2.44	2.41	2.36	2.32	2.26	2.22	2.17	2.14		
140	2.91	2.93	2.96	2.98	3.00	3.00	3.01	2.99	2.98	2.94	2.91	2.87	2.82	2.77	2.73	2.69	2.65		
145	3.36	3.39	3.40	3.41	3.43	3.44	3.44	3.45	3.44	3.41	3.37	3.33	3.29	3.24	3.21	3.18	3.14		
150	3.71	3.73	3.73	3.73	3.73	3.75	3.76	3.78	3.78	3.77	3.73	3.69	3.65	3.62	3.61	3.59	3.57		
155	3.89	3.90	3.89	3.89	3.87	3.90	3.89	3.93	3.93	3.96	3.91	3.90	3.86	3.86	3.84	3.85	3.84		
160	3.90	3.89	3.89	3.92	3.91	3.92	3.91	3.94	3.95	3.98	3.96	3.97	3.95	3.94	3.90	3.91	3.92		
165	3.89	3.90	3.89	3.90	3.92	3.92	3.90	3.93	3.98	4.00	4.01	4.00	3.98	3.96	3.93	3.95	3.95		
170	3.89	3.89	3.88	3.86	3.85	3.83	3.85	3.85	3.91	3.92	3.95	3.93	3.94	3.92	3.92	3.93	3.94		
175	3.90	3.94	3.93	3.95	3.91	3.90	3.87	3.88	3.87	3.90	3.93	3.98	3.98	3.97	3.93	3.94	3.93		
180	3.96	3.98	3.99	4.02	4.00	3.98	3.93	3.94	3.93	3.94	3.95	4.00	4.01	4.02	3.99	3.96	3.96		

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: