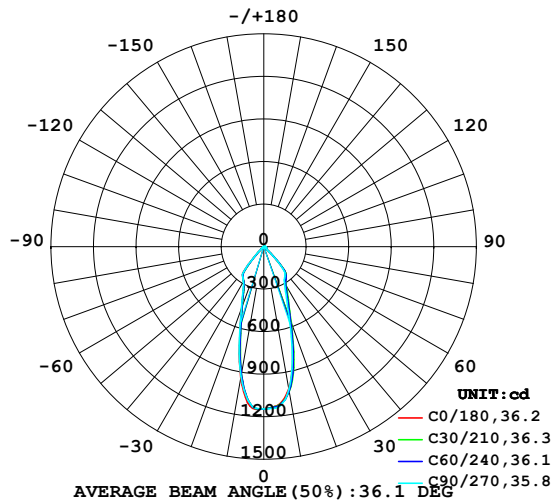


LUMINAIRE PHOTOMETRIC TEST REPORT

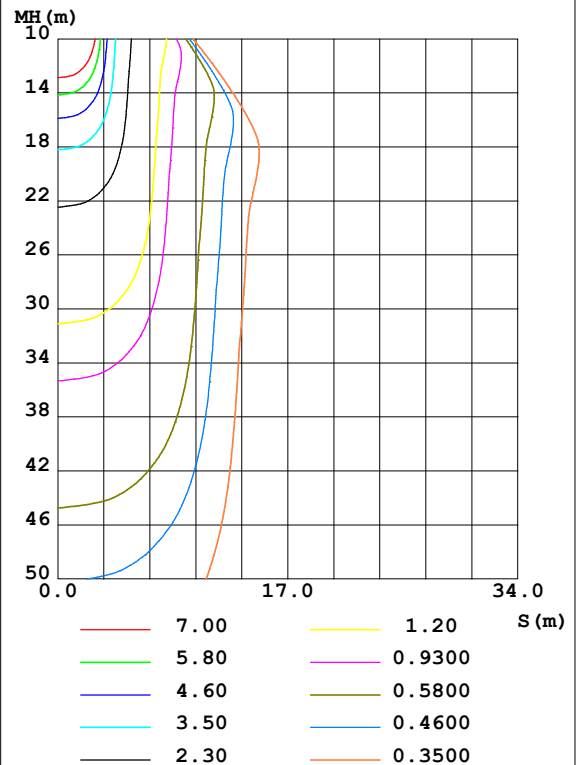
NAME:	TYPE:3000K CRI90	WEIGHT:
SPEC.:RAR40R-12-30K	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.: ϕ 55MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.60 lm/W
MODEL		Imax(cd)	1148	S/MH(C0/180)	0.55	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.56	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	741.69	η UP,DN(C0-180)	0.5,51.2	
NOMINAL FLUX(lm)	741.687	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.6,47.8	
LAMPS INSIDE	1	η up(%)	1.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down(%)	99.0	CIBSE SHR MAX	0.60	

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	1018	1040	1024	966.2	939.9	910.6	930.2	985.9	0- 10	102.6	102.6	13.8,13.8
20	547.4	563.8	523.9	479.7	460.2	447.7	465.2	510.4	10- 20	199.2	301.8	40.7,40.7
30	313.2	316.5	293.9	290.2	285.3	286.0	288.9	302.0	20- 30	172.3	474.1	63.9,63.9
40	239.4	239.1	227.9	209.8	198.8	178.3	197.6	226.6	30- 40	164.4	638.5	86.1,86.1
50	24.53	25.68	24.10	19.87	19.56	18.95	19.22	21.65	40- 50	65.99	704.5	95,95
60	13.35	13.54	13.03	11.79	11.58	11.18	11.63	12.61	50- 60	14.62	719.1	97,97
70	7.877	7.850	7.571	6.981	6.845	6.686	7.203	7.706	60- 70	9.351	728.5	98.2,98.2
80	2.714	3.015	2.351	1.036	0.7265	0.6257	0.7588	1.910	70- 80	5.103	733.6	98.9,98.9
90	0.0873	0.0760	0.0659	0.0654	0.1317	0.1190	0.1205	0.1090	80- 90	0.4294	734.0	99,99
100	0.1186	0.1160	0.1244	0.1335	0.2524	0.2398	0.2201	0.2046	90-100	0.1310	734.1	99,99
110	0.3298	0.3137	0.3335	0.3617	0.5139	0.5114	0.4723	0.4442	100-110	0.2948	734.4	99,99
120	0.6799	0.6556	0.6838	0.7396	0.9238	0.9283	0.8826	0.8212	110-120	0.5747	735.0	99.1,99.1
130	1.265	1.220	1.262	1.364	1.616	1.633	1.583	1.471	120-130	0.9644	736.0	99.2,99.2
140	2.079	2.033	2.070	2.186	2.441	2.447	2.405	2.292	130-140	1.407	737.4	99.4,99.4
150	2.856	2.803	2.861	2.909	3.099	3.062	3.086	2.972	140-150	1.637	739.0	99.6,99.6
160	3.231	3.218	3.244	3.207	3.272	3.238	3.276	3.257	150-160	1.447	740.4	99.8,99.8
170	3.295	3.312	3.280	3.242	3.259	3.209	3.242	3.268	160-170	0.9256	741.4	100,100
180	3.330	3.358	3.295	3.352	3.337	3.360	3.293	3.352	170-180	0.3126	741.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 690.18 lm

%lum = 93.1%

%lamp = 93.1%

Conical surface Flux(120deg): 719.11 lm

%lum = 97.0%

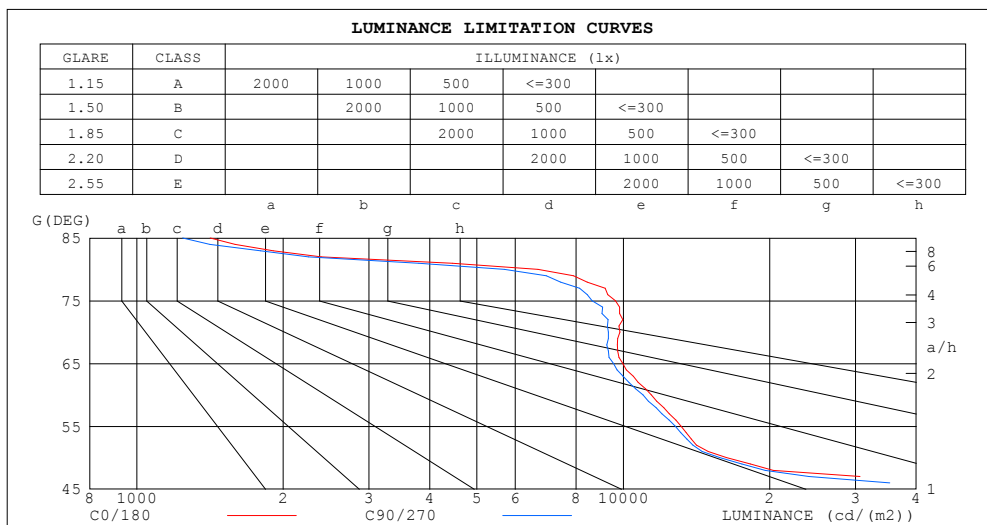
%lamp = 97.0%

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	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1415	1242
80	6679	5698
75	9632	8631
70	9843	9316
65	9983	9543
60	11415	10969
55	13145	12784
50	16311	15778
45	58324	50739

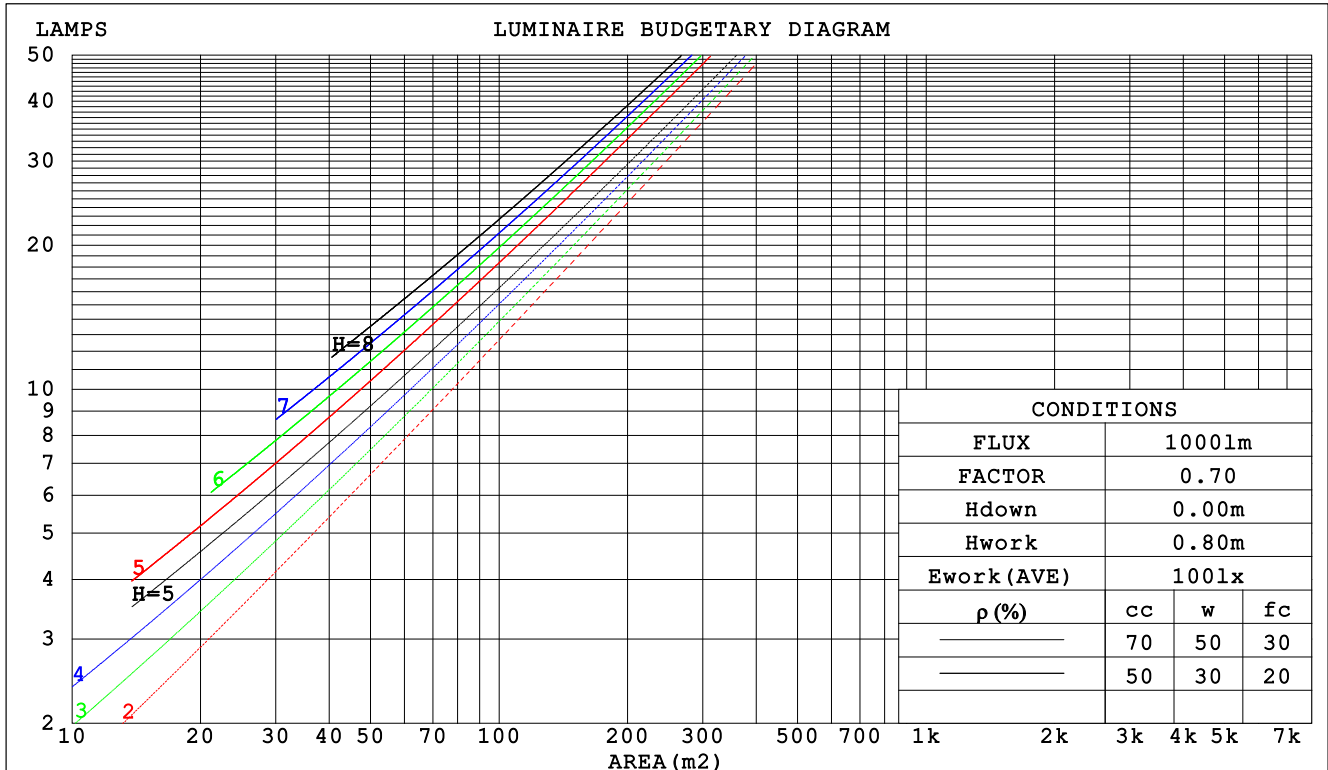
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

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	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	1.05	1.08	1.06	1.03	1.04	1.02	1.00	.90	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.86	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.83	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.77	.75	.73
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.70	.76	.73	.70	.68
6.0	.77	.71	.67	.77	.71	.67	.75	.70	.66	.73	.69	.66	.72	.68	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.69	.65	.61	.68	.64	.61	.60
8.0	.69	.63	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.54	.62	.57	.54	.53
10.0	.62	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.51	.59	.54	.51	.50



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	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	.186	.106	.033	.179	.102	.032	.166	.095	.030	.153	.088	.028	.142	.082	.027		
2.0	.178	.098	.030	.172	.095	.029	.161	.090	.028	.151	.085	.026	.141	.080	.025		
3.0	.169	.090	.027	.164	.088	.026	.155	.084	.025	.146	.080	.024	.137	.076	.024		
4.0	.161	.084	.025	.156	.082	.024	.148	.078	.023	.140	.075	.023	.133	.072	.022		
5.0	.153	.078	.023	.149	.076	.022	.141	.074	.022	.135	.071	.021	.128	.068	.021		
6.0	.145	.073	.021	.142	.072	.021	.135	.069	.020	.129	.067	.020	.123	.065	.019		
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.018	.119	.062	.018		
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.119	.060	.017	.114	.059	.017		
9.0	.126	.061	.017	.123	.060	.017	.119	.059	.017	.114	.057	.016	.110	.056	.016		
10.0	.120	.058	.016	.118	.057	.016	.114	.056	.016	.110	.055	.016	.106	.053	.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	.170	.170	.170	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.180	.165	.152	.154	.142	.131	.105	.098	.091	.061	.056	.053	.019	.018	.017	
2.0	.165	.140	.120	.141	.121	.104	.097	.084	.072	.056	.049	.042	.018	.016	.014	
3.0	.153	.122	.097	.131	.105	.084	.090	.073	.059	.052	.043	.035	.017	.014	.011	
4.0	.143	.107	.080	.123	.093	.069	.084	.065	.049	.049	.038	.029	.016	.012	.009	
5.0	.135	.096	.067	.116	.083	.058	.080	.058	.041	.046	.034	.024	.015	.011	.008	
6.0	.127	.086	.057	.109	.075	.050	.075	.052	.035	.044	.031	.021	.014	.010	.007	
7.0	.121	.079	.050	.104	.068	.043	.072	.048	.031	.042	.028	.018	.013	.009	.006	
8.0	.115	.073	.044	.099	.063	.038	.068	.044	.027	.040	.026	.016	.013	.009	.005	
9.0	.110	.068	.039	.095	.059	.034	.065	.041	.024	.038	.024	.014	.012	.008	.005	
10.0	.105	.063	.035	.091	.055	.031	.063	.039	.022	.037	.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					DIM.:			SERIAL No.:1			
MFR.: RAYHIL					SUR.:#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	23.7	24.7	24.0	24.9	25.1
	3H	24.0	24.9	24.3	25.2	25.4	23.7	24.6	24.0	24.8	25.0
	4H	24.1	24.9	24.3	25.1	25.4	23.7	24.5	24.0	24.8	25.0
	6H	24.0	24.8	24.3	25.1	25.4	23.6	24.4	24.0	24.7	25.0
	8H	24.0	24.8	24.3	25.0	25.3	23.6	24.4	23.9	24.6	24.9
	12H	23.9	24.7	24.3	25.0	25.3	23.6	24.3	23.9	24.6	24.9
4H	2H	23.9	24.7	24.2	25.0	25.2	23.5	24.4	23.8	24.6	24.9
	3H	23.9	24.6	24.3	24.9	25.2	23.6	24.3	23.9	24.6	24.9
	4H	24.0	24.6	24.3	24.9	25.3	23.6	24.3	24.0	24.6	24.9
	6H	24.0	24.6	24.4	24.9	25.3	23.6	24.2	24.0	24.5	24.9
	8H	23.9	24.5	24.4	24.9	25.2	23.6	24.1	24.0	24.5	24.9
	12H	23.9	24.4	24.3	24.8	25.2	23.5	24.0	23.9	24.4	24.8
8H	4H	23.9	24.4	24.3	24.8	25.2	23.5	24.1	23.9	24.4	24.8
	6H	23.9	24.4	24.4	24.8	25.2	23.6	24.0	24.0	24.4	24.9
	8H	23.9	24.3	24.4	24.7	25.2	23.5	23.9	24.0	24.3	24.8
	12H	23.8	24.2	24.3	24.6	25.1	23.5	23.8	24.0	24.3	24.8
12H	4H	23.8	24.3	24.3	24.7	25.1	23.5	24.0	23.9	24.4	24.8
	6H	23.9	24.3	24.4	24.7	25.2	23.5	23.9	24.0	24.4	24.8
	8H	23.9	24.2	24.3	24.6	25.1	23.5	23.8	24.0	24.3	24.8
Variations with the observer position at spacings:											
S = 1.0H	+ 2.5 / - 5.7					+ 2.5 / - 5.7					
1.5H	+ 4.1 / - 5.7					+ 4.1 / - 5.6					
2.0H	+ 5.5 / - 2.0					+ 5.1 / - 1.8					

CIE Pub.117, 741.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.0)

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:

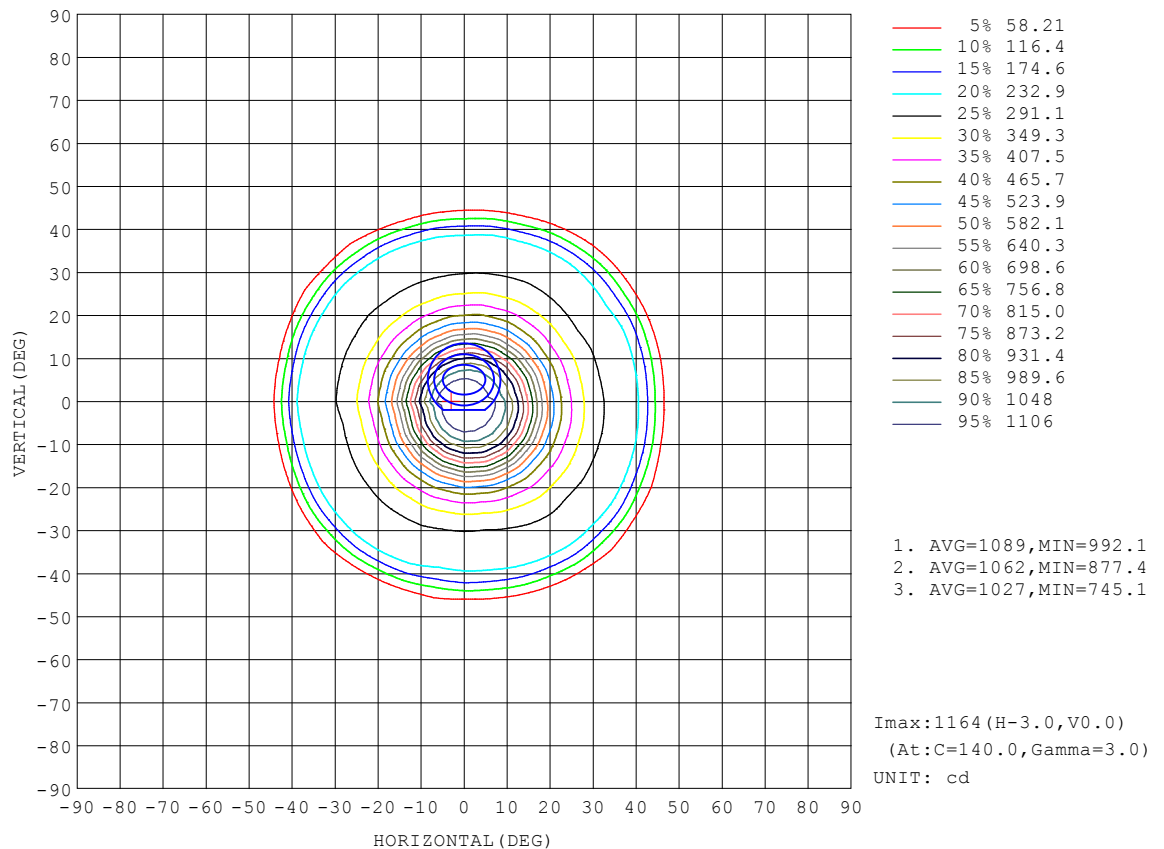
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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

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

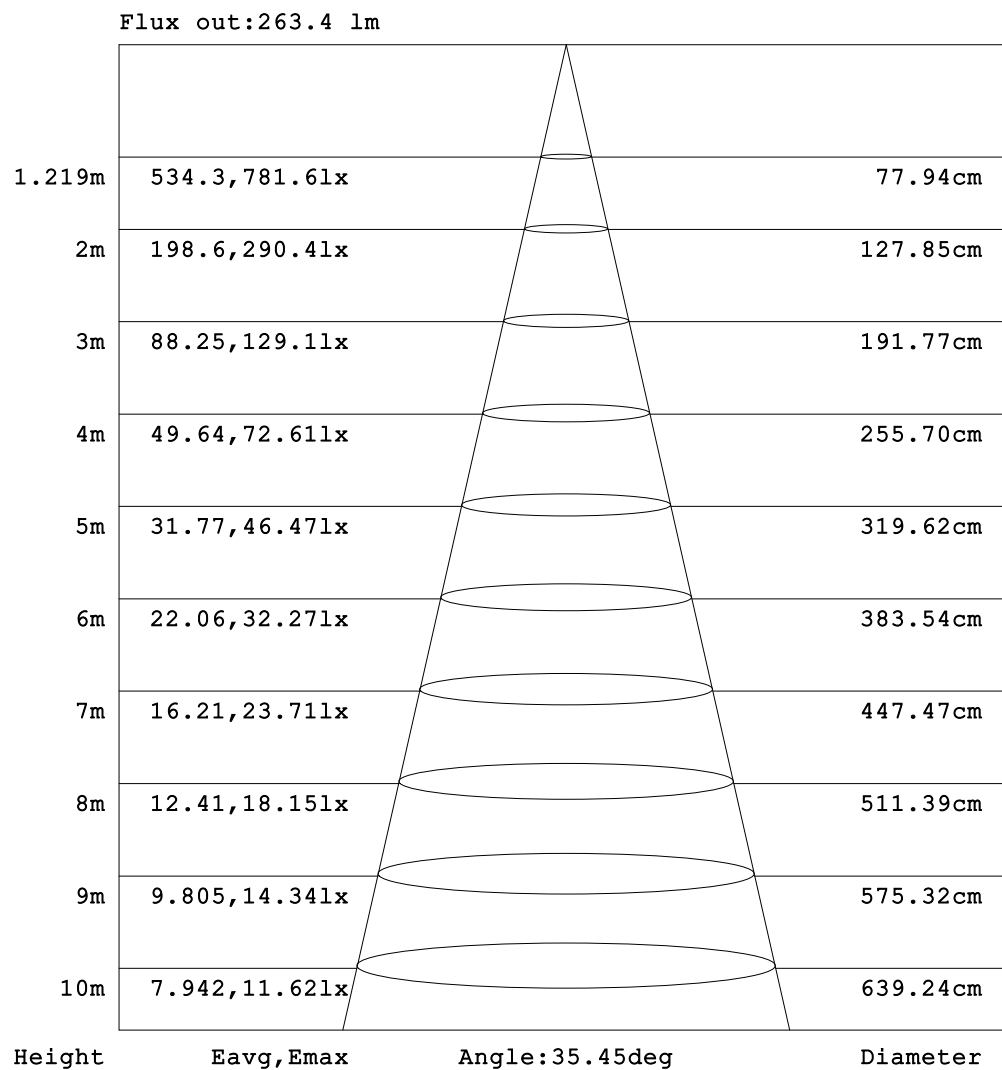


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-25

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	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:



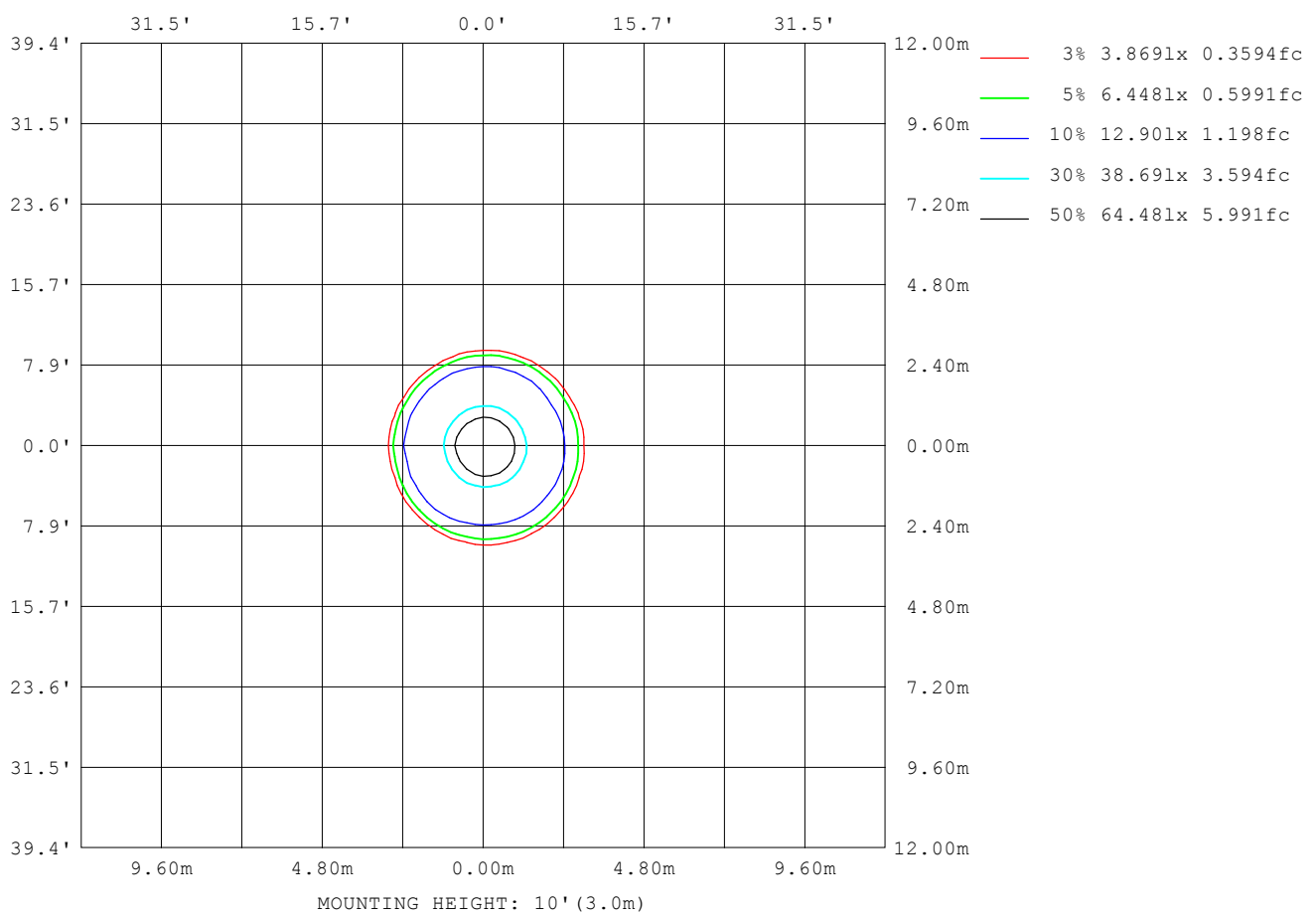
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	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	DIM.:	SERIAL No.:1
MFR.: RAYHIL	SUR.:Φ55MM	Shielding Angle:

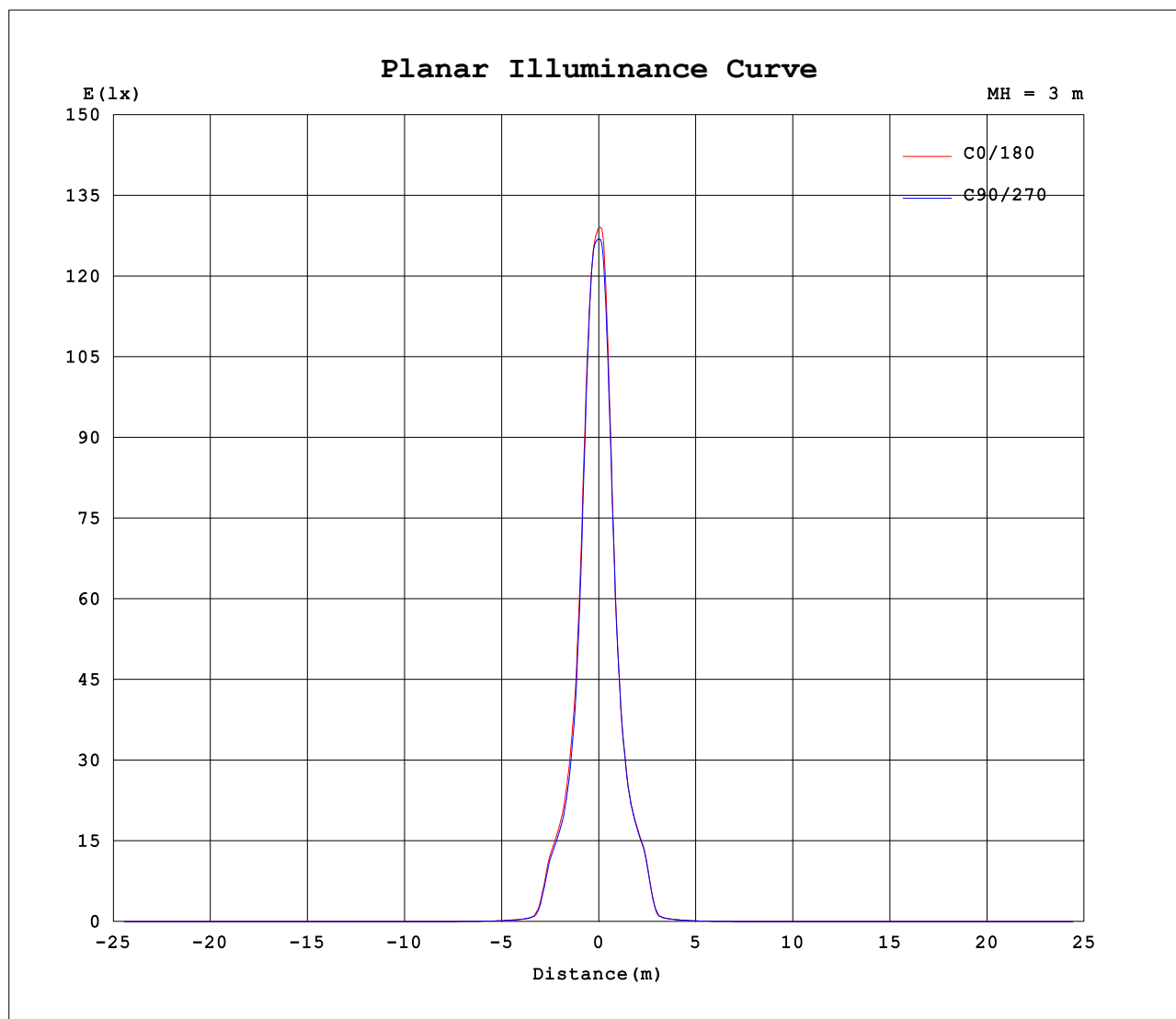
AvgL	cd/m2
L_0~180 (65) av	9281
L_0~180 (75) av	8265
L_0~180 (85) av	1122
L_90~270 (65) av	9241
L_90~270 (75) av	8190
L_90~270 (85) av	1069
L_45 (65) av	9198
L_45 (75) av	8201
L_45 (85) av	1069

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	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	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144
5	1124	1127	1126	1126	1128	1130	1130	1135	1135	1138	1138	1139	1136	1136	1132	1132	1126	1125	1129
10	1018	1029	1030	1038	1037	1042	1036	1038	1027	1024	1008	1003	983	977	956	950	932	930	940
15	792	813	814	825	821	826	810	807	784	777	754	743	719	711	688	680	657	653	661
20	547	561	560	569	562	566	551	545	528	524	508	505	490	487	473	469	457	456	460
25	400	409	409	411	407	408	396	390	378	375	370	370	362	360	350	348	341	340	343
30	313	317	317	319	315	318	311	302	293	294	293	295	293	292	289	287	286	285	285
35	272	274	275	273	272	275	273	267	261	260	258	265	267	265	262	261	261	260	261
40	239	242	242	241	238	240	237	234	229	228	221	226	219	215	205	203	193	192	199
45	96.5	105	104	109	104	107	98.5	99.4	88.6	85.3	74.5	70.2	59.9	55.9	58.3	43.8	44.5	36.9	39.5
50	24.5	25.4	25.1	26.0	25.5	25.8	25.0	25.1	24.1	24.1	22.9	21.9	20.6	20.2	19.5	19.3	19.0	19.0	19.6
55	17.6	17.8	17.7	17.9	17.9	17.9	17.6	17.6	17.4	17.4	17.0	16.5	16.0	15.8	15.3	15.2	14.9	14.9	15.3
60	13.4	13.5	13.4	13.6	13.5	13.6	13.3	13.3	13.1	13.0	12.7	12.5	12.1	11.9	11.6	11.5	11.3	11.3	11.6
65	9.87	9.98	9.91	9.99	9.94	9.95	9.81	9.80	9.62	9.58	9.33	9.25	9.04	8.95	8.79	8.73	8.55	8.52	8.75
70	7.88	7.93	7.88	7.89	7.85	7.86	7.77	7.78	7.63	7.57	7.37	7.31	7.18	7.04	6.92	6.86	6.68	6.66	6.85
75	5.83	5.99	5.95	5.98	5.89	5.90	5.72	5.67	5.42	5.31	5.05	4.99	4.81	4.71	4.54	4.47	4.20	4.16	4.32
80	2.71	2.99	2.96	3.10	2.99	3.04	2.83	2.78	2.47	2.35	1.92	1.76	1.41	1.23	0.84	0.76	0.67	0.64	0.73
85	0.29	0.30	0.31	0.32	0.31	0.32	0.30	0.29	0.27	0.26	0.23	0.21	0.19	0.17	0.16	0.14	0.14	0.12	0.18
90	0.09	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.06	0.06	0.13
95	0.08	0.09	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.08	0.09	0.08	0.09	0.17
100	0.12	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.13	0.12	0.14	0.13	0.14	0.13	0.15	0.25
105	0.20	0.21	0.20	0.20	0.19	0.20	0.19	0.20	0.20	0.21	0.20	0.22	0.21	0.23	0.23	0.25	0.24	0.26	0.37
110	0.33	0.33	0.32	0.32	0.31	0.32	0.31	0.32	0.32	0.33	0.33	0.35	0.35	0.36	0.36	0.38	0.38	0.40	0.51
115	0.49	0.48	0.47	0.47	0.46	0.47	0.46	0.47	0.47	0.49	0.49	0.50	0.51	0.53	0.53	0.55	0.55	0.57	0.69
120	0.68	0.68	0.66	0.66	0.65	0.66	0.66	0.67	0.68	0.68	0.69	0.71	0.72	0.73	0.75	0.76	0.77	0.78	0.92
125	0.94	0.92	0.91	0.90	0.90	0.90	0.91	0.91	0.92	0.94	0.95	0.96	0.99	1.00	1.03	1.04	1.06	1.07	1.23
130	1.27	1.24	1.23	1.22	1.22	1.22	1.23	1.23	1.26	1.26	1.29	1.30	1.33	1.35	1.38	1.40	1.42	1.43	1.62
135	1.66	1.63	1.62	1.60	1.61	1.61	1.62	1.62	1.65	1.65	1.68	1.69	1.73	1.74	1.78	1.80	1.83	1.83	2.02
140	2.08	2.05	2.05	2.03	2.04	2.03	2.04	2.04	2.07	2.07	2.11	2.11	2.15	2.17	2.21	2.21	2.25	2.25	2.44
145	2.49	2.47	2.45	2.44	2.45	2.44	2.45	2.46	2.49	2.49	2.52	2.52	2.56	2.56	2.60	2.61	2.64	2.65	2.81
150	2.86	2.83	2.82	2.80	2.81	2.80	2.82	2.83	2.86	2.86	2.88	2.88	2.90	2.90	2.92	2.93	2.96	2.97	3.10
155	3.11	3.11	3.08	3.07	3.07	3.07	3.10	3.11	3.13	3.13	3.13	3.12	3.12	3.11	3.12	3.13	3.14	3.15	3.25
160	3.23	3.24	3.21	3.21	3.21	3.23	3.24	3.25	3.25	3.24	3.24	3.23	3.22	3.21	3.20	3.19	3.18	3.19	3.27
165	3.29	3.30	3.29	3.28	3.30	3.30	3.31	3.32	3.32	3.30	3.30	3.28	3.27	3.26	3.25	3.23	3.23	3.21	3.27
170	3.29	3.31	3.30	3.30	3.31	3.32	3.31	3.32	3.30	3.28	3.27	3.25	3.24	3.24	3.24	3.24	3.23	3.20	3.26
175	3.29	3.31	3.32	3.33	3.35	3.36	3.35	3.33	3.30	3.28	3.28	3.27	3.28	3.30	3.29	3.27	3.24	3.21	3.28
180	3.33	3.33	3.33	3.35	3.36	3.36	3.32	3.30	3.30	3.29	3.29	3.31	3.33	3.35	3.35	3.32	3.31	3.30	3.34

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	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	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144		
5	1122	1121	1113	1116	1110	1112	1110	1114	1113	1118	1116	1120	1120	1125	1124	1127	1126		
10	922	923	910	915	906	915	912	927	930	949	955	972	978	994	1001	1015	1018		
15	646	647	634	640	635	645	645	661	667	687	694	717	726	751	760	785	791		
20	451	453	445	450	446	453	452	463	465	480	484	498	503	518	523	543	547		
25	338	340	336	339	337	340	341	348	350	361	364	373	376	384	386	397	400		
30	285	285	285	287	285	286	287	288	289	292	295	300	301	303	302	312	315		
35	260	258	257	259	258	258	260	262	261	266	266	269	270	267	264	272	273		
40	188	185	177	180	177	185	187	197	198	209	211	221	227	227	226	237	240		
45	41.3	35.1	43.5	33.2	43.2	34.5	40.9	38.9	47.6	48.4	52.7	63.0	68.3	77.1	80.4	92.7	98.1		
50	19.4	19.3	19.1	19.0	18.9	19.0	18.9	19.2	19.2	19.6	19.9	20.6	21.0	22.3	22.9	24.1	24.5		
55	15.1	15.0	14.8	14.9	14.7	14.9	14.9	15.1	15.2	15.5	15.7	16.0	16.2	16.7	17.0	17.4	17.5		
60	11.3	11.3	11.1	11.2	11.1	11.3	11.3	11.5	11.6	11.9	11.9	12.2	12.4	12.8	13.0	13.3	13.3		
65	8.58	8.60	8.47	8.55	8.52	8.67	8.71	8.91	8.96	9.16	9.20	9.37	9.44	9.68	9.74	9.86	9.82		
70	6.67	6.71	6.62	6.69	6.68	6.82	6.87	7.12	7.20	7.42	7.49	7.61	7.64	7.77	7.78	7.93	7.88		
75	4.10	4.11	4.00	4.11	4.08	4.29	4.35	4.65	4.76	5.10	5.20	5.39	5.46	5.61	5.65	5.91	5.89		
80	0.66	0.66	0.62	0.64	0.61	0.67	0.66	0.73	0.76	0.88	1.01	1.54	1.70	2.12	2.27	2.73	2.79		
85	0.18	0.16	0.16	0.15	0.16	0.15	0.17	0.17	0.18	0.19	0.21	0.22	0.24	0.26	0.28	0.30	0.32		
90	0.13	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12		
95	0.16	0.17	0.15	0.16	0.15	0.16	0.14	0.16	0.14	0.15	0.14	0.14	0.12	0.14	0.12	0.13	0.13		
100	0.24	0.25	0.23	0.25	0.23	0.24	0.23	0.24	0.22	0.23	0.21	0.22	0.20	0.21	0.19	0.20	0.18		
105	0.35	0.37	0.35	0.36	0.35	0.36	0.34	0.35	0.33	0.34	0.33	0.32	0.30	0.31	0.29	0.30	0.28		
110	0.50	0.51	0.51	0.52	0.51	0.50	0.48	0.49	0.47	0.47	0.46	0.46	0.44	0.44	0.43	0.43	0.41		
115	0.69	0.70	0.69	0.70	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.61	0.59	0.59	0.58		
120	0.93	0.93	0.93	0.93	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.84	0.82	0.82	0.81	0.79	0.78		
125	1.25	1.25	1.25	1.24	1.25	1.23	1.23	1.21	1.19	1.17	1.16	1.13	1.11	1.10	1.08	1.07	1.06		
130	1.63	1.63	1.64	1.63	1.64	1.62	1.61	1.59	1.58	1.55	1.53	1.50	1.49	1.46	1.44	1.42	1.42		
135	2.04	2.03	2.04	2.04	2.05	2.03	2.03	2.01	2.00	1.97	1.95	1.92	1.90	1.86	1.85	1.83	1.82		
140	2.45	2.45	2.45	2.44	2.45	2.44	2.44	2.41	2.41	2.37	2.36	2.32	2.31	2.28	2.27	2.24	2.23		
145	2.82	2.82	2.81	2.80	2.81	2.80	2.81	2.79	2.79	2.76	2.74	2.70	2.68	2.65	2.65	2.63	2.63		
150	3.09	3.08	3.07	3.06	3.06	3.06	3.08	3.08	3.09	3.06	3.04	3.00	2.98	2.96	2.97	2.96	2.96		
155	3.23	3.21	3.21	3.20	3.19	3.20	3.20	3.23	3.24	3.24	3.22	3.19	3.17	3.16	3.17	3.16	3.17		
160	3.24	3.22	3.22	3.24	3.24	3.23	3.23	3.25	3.28	3.29	3.28	3.27	3.27	3.25	3.23	3.23	3.25		
165	3.25	3.25	3.23	3.24	3.24	3.25	3.26	3.27	3.29	3.33	3.33	3.32	3.30	3.29	3.27	3.28	3.29		
170	3.24	3.24	3.23	3.22	3.20	3.20	3.20	3.22	3.24	3.27	3.28	3.29	3.27	3.26	3.26	3.27	3.28		
175	3.27	3.28	3.29	3.29	3.27	3.25	3.23	3.23	3.24	3.25	3.28	3.31	3.31	3.31	3.30	3.29	3.29		
180	3.33	3.34	3.34	3.37	3.35	3.33	3.30	3.30	3.29	3.30	3.31	3.33	3.35	3.35	3.32	3.31	3.31		

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: