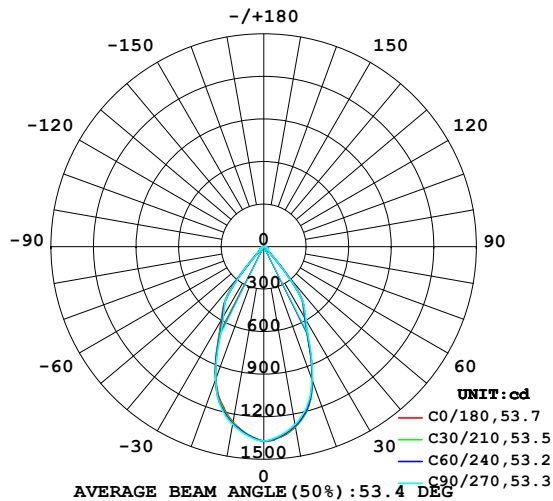


LUMINAIRE PHOTOMETRIC TEST REPORT

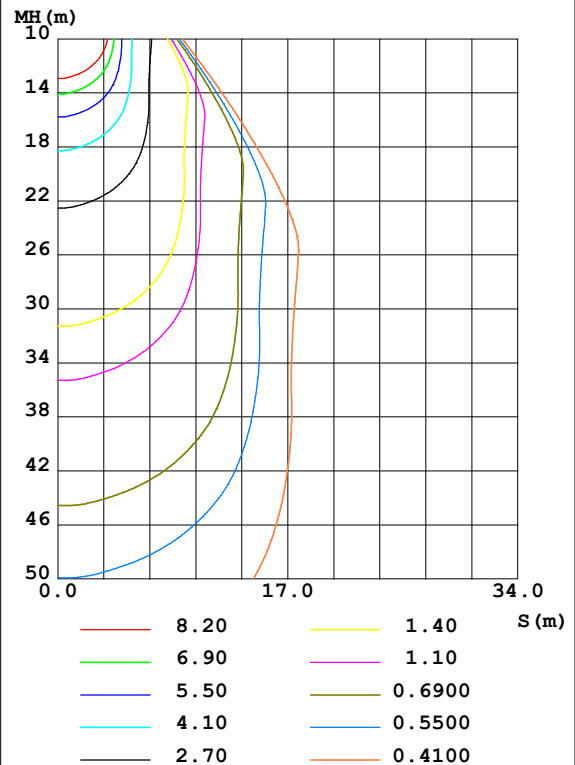
NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.51 lm/W
MODEL		I _{max} (cd)	1372	S/MH (C0/180)	0.84	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH (C90/270)	0.84	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1208.4	η UP,DN (C0-180)	0.0,50.3	
NOMINAL FLUX(lm)	1208.39	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	0.95	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_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	1291	1288	1273	1261	1256	1261	1273	1283	0- 10	125.7	125.7	10.4,10.4
20	1003	1009	999.4	994.6	993.4	992.3	990.5	992.0	10- 20	324.1	449.8	37.2,37.2
30	577.6	585.4	595.9	607.3	600.6	581.4	571.0	571.5	20- 30	351.9	801.6	66.3,66.3
40	239.6	246.8	245.0	253.3	246.0	229.0	231.7	228.5	30- 40	282.3	1084	89.7,89.7
50	33.92	33.40	33.82	34.75	34.48	33.94	34.29	34.23	40- 50	60.80	1145	94.7,94.7
60	25.61	25.23	25.10	25.41	25.67	25.76	25.91	25.95	50- 60	26.04	1171	96.9,96.9
70	19.60	19.38	19.17	19.46	19.77	19.92	20.09	19.90	60- 70	22.70	1194	98.8,98.8
80	4.491	4.506	4.348	4.503	4.541	4.459	4.551	4.471	70- 80	13.55	1207	99.9,99.9
90	0.1471	0.1471	0.1500	0.1470	0.2164	0.2163	0.2163	0.2162	80- 90	1.334	1208	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1128.1 lm

%lum = 93.4%

%lamp = 93.4%

Conical surface Flux(120deg): 1170.8 lm

%lum = 96.9%

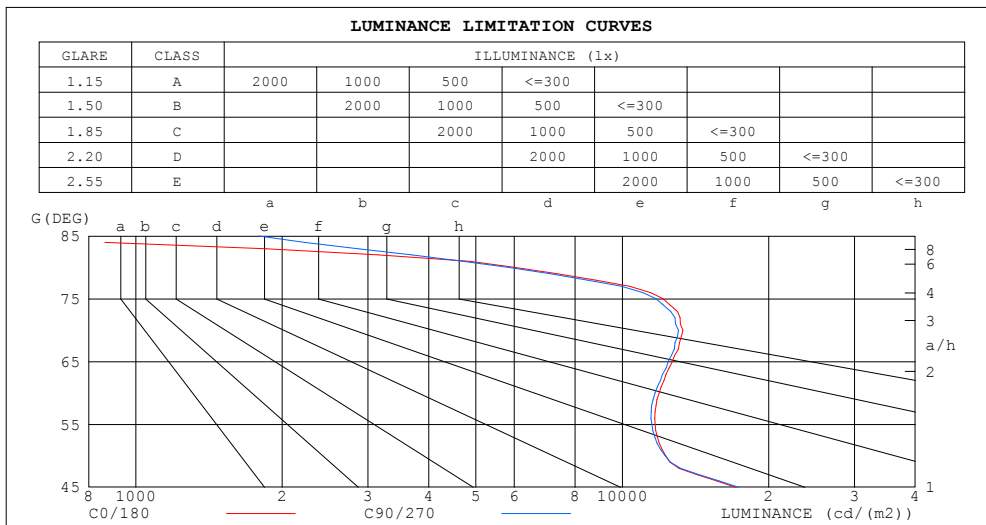
%lamp = 96.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	552	1789
80	6014	5824
75	12127	11740
70	13325	13037
65	12684	12431
60	11910	11678
55	11677	11504
50	12272	12237
45	17113	17348

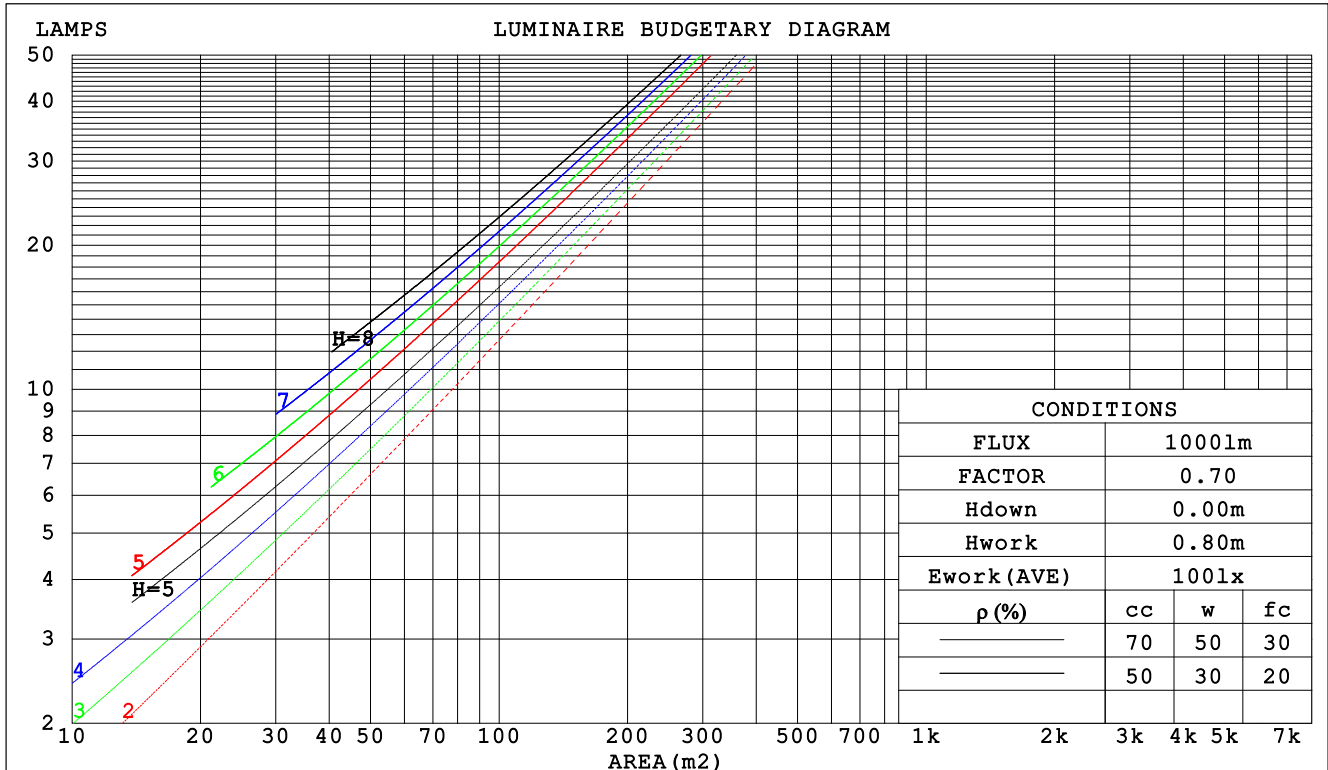
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	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	1.02	1.02	1.02	1.00
1.0	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.82	.78	.87	.81	.77	.85	.80	.76	.83	.79	.75	.81	.77	.75	.73
5.0	.82	.76	.72	.81	.76	.71	.79	.74	.71	.78	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.66	.76	.70	.66	.75	.69	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.72	.66	.62	.72	.66	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.59
8.0	.68	.62	.58	.67	.62	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.55
9.0	.64	.58	.54	.64	.58	.54	.63	.57	.54	.62	.57	.53	.61	.57	.53	.52
10.0	.61	.55	.51	.60	.54	.51	.59	.54	.50	.59	.54	.50	.58	.53	.50	.49



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	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	.190	.108	.034	.184	.105	.033	.171	.098	.031	.159	.092	.029	.149	.086	.028		
2.0	.182	.100	.031	.176	.097	.030	.166	.092	.029	.156	.087	.027	.147	.083	.026		
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.150	.082	.025	.142	.079	.024		
4.0	.164	.085	.025	.159	.083	.025	.151	.080	.024	.144	.077	.023	.137	.075	.023		
5.0	.155	.079	.023	.152	.078	.023	.145	.075	.022	.138	.073	.022	.132	.071	.021		
6.0	.148	.074	.021	.144	.073	.021	.138	.071	.021	.133	.069	.020	.127	.067	.020		
7.0	.141	.069	.020	.138	.069	.020	.132	.067	.019	.127	.065	.019	.122	.064	.019		
8.0	.134	.066	.018	.132	.065	.018	.127	.063	.018	.122	.062	.018	.118	.061	.018		
9.0	.128	.062	.017	.126	.061	.017	.122	.060	.017	.117	.059	.017	.114	.058	.017		
10.0	.123	.059	.016	.121	.058	.016	.117	.057	.016	.113	.056	.016	.109	.055	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010		
4.0	.136	.099	.071	.116	.086	.062	.080	.060	.043	.046	.035	.026	.015	.011	.008		
5.0	.127	.088	.058	.109	.076	.051	.075	.053	.036	.044	.031	.021	.014	.010	.007		
6.0	.120	.078	.049	.103	.068	.042	.071	.048	.030	.041	.028	.018	.013	.009	.006		
7.0	.113	.071	.041	.098	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005		
8.0	.108	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.103	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004		
10.0	.098	.055	.027	.084	.048	.023	.059	.034	.017	.034	.020	.010	.011	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: RAD35R-15-CCT-UNV-50C-WT					TYPE:4000K CRI90					WEIGHT:				
SPEC.:50D					DIM.:					SERIAL No.:1				
MFR.:					SUR.:Φ74MM					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					20.3	21.3	20.5	21.5	21.6	20.3	21.4	20.6	21.5	21.7
3H					20.6	21.5	20.9	21.7	21.9	20.6	21.6	20.9	21.8	22.0
4H					20.8	21.7	21.1	21.9	22.1	20.8	21.7	21.1	21.9	22.1
6H					20.8	21.7	21.1	21.9	22.2	20.8	21.7	21.1	21.9	22.2
8H					20.8	21.6	21.1	21.9	22.1	20.8	21.6	21.1	21.9	22.1
12H					20.8	21.5	21.1	21.8	22.1	20.8	21.5	21.1	21.8	22.1
4H 2H					20.2	21.1	20.5	21.3	21.6	20.3	21.2	20.6	21.4	21.6
3H					20.7	21.5	21.1	21.8	22.0	20.8	21.5	21.1	21.8	22.1
4H					21.0	21.7	21.4	22.0	22.3	21.0	21.7	21.4	22.0	22.3
6H					21.1	21.7	21.5	22.1	22.4	21.1	21.7	21.5	22.1	22.4
8H					21.1	21.7	21.5	22.0	22.4	21.1	21.6	21.5	22.0	22.4
12H					21.0	21.6	21.5	21.9	22.3	21.0	21.6	21.5	21.9	22.3
8H 4H					21.1	21.6	21.5	22.0	22.4	21.1	21.6	21.5	22.0	22.4
6H					21.2	21.6	21.6	22.0	22.5	21.2	21.6	21.6	22.0	22.4
8H					21.2	21.6	21.6	22.0	22.4	21.1	21.6	21.6	22.0	22.4
12H					21.1	21.5	21.6	21.9	22.4	21.1	21.4	21.6	21.9	22.4
12H 4H					21.0	21.5	21.4	21.9	22.3	21.0	21.5	21.4	21.9	22.3
6H					21.1	21.6	21.6	22.0	22.4	21.1	21.5	21.6	22.0	22.4
8H					21.1	21.5	21.6	21.9	22.4	21.1	21.5	21.6	21.9	22.4
Variations with the observer position at spacings:														
S = 1.0H					+ 2.5 / - 3.2					+ 2.6 / - 3.3				
1.5H					+ 4.8 / - 3.1					+ 4.9 / - 3.3				
2.0H					+ 0.6 / - 0.3					+ 0.6 / - 0.3				

CIE Pub.117, 1208 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.7$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

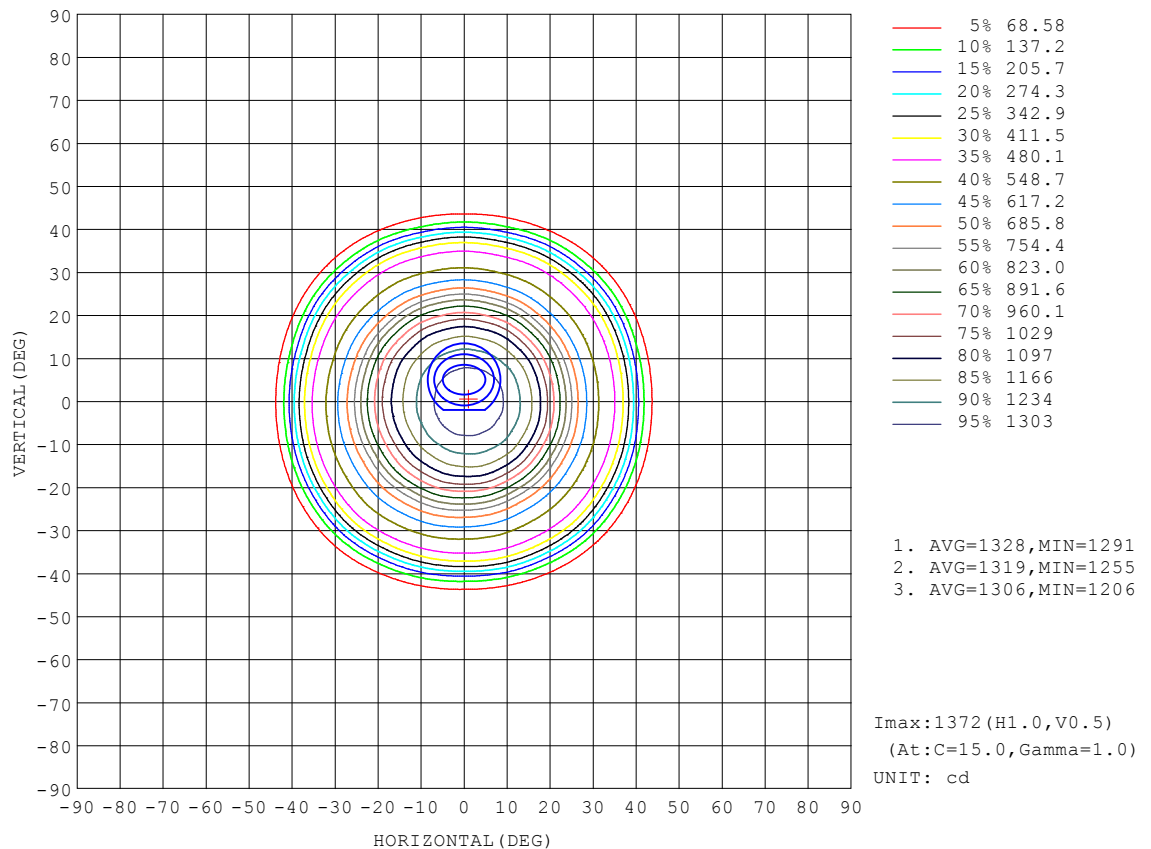
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Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

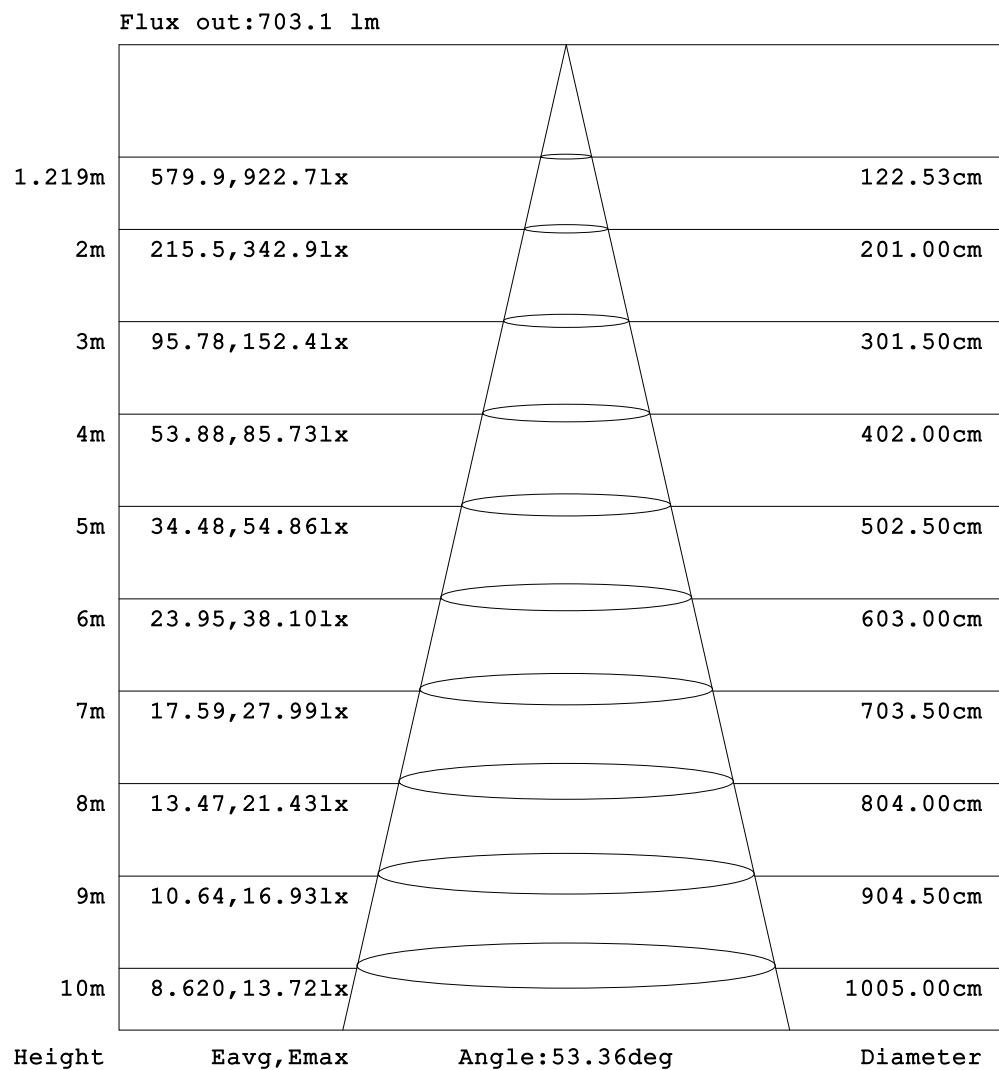


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

AAI Figure

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



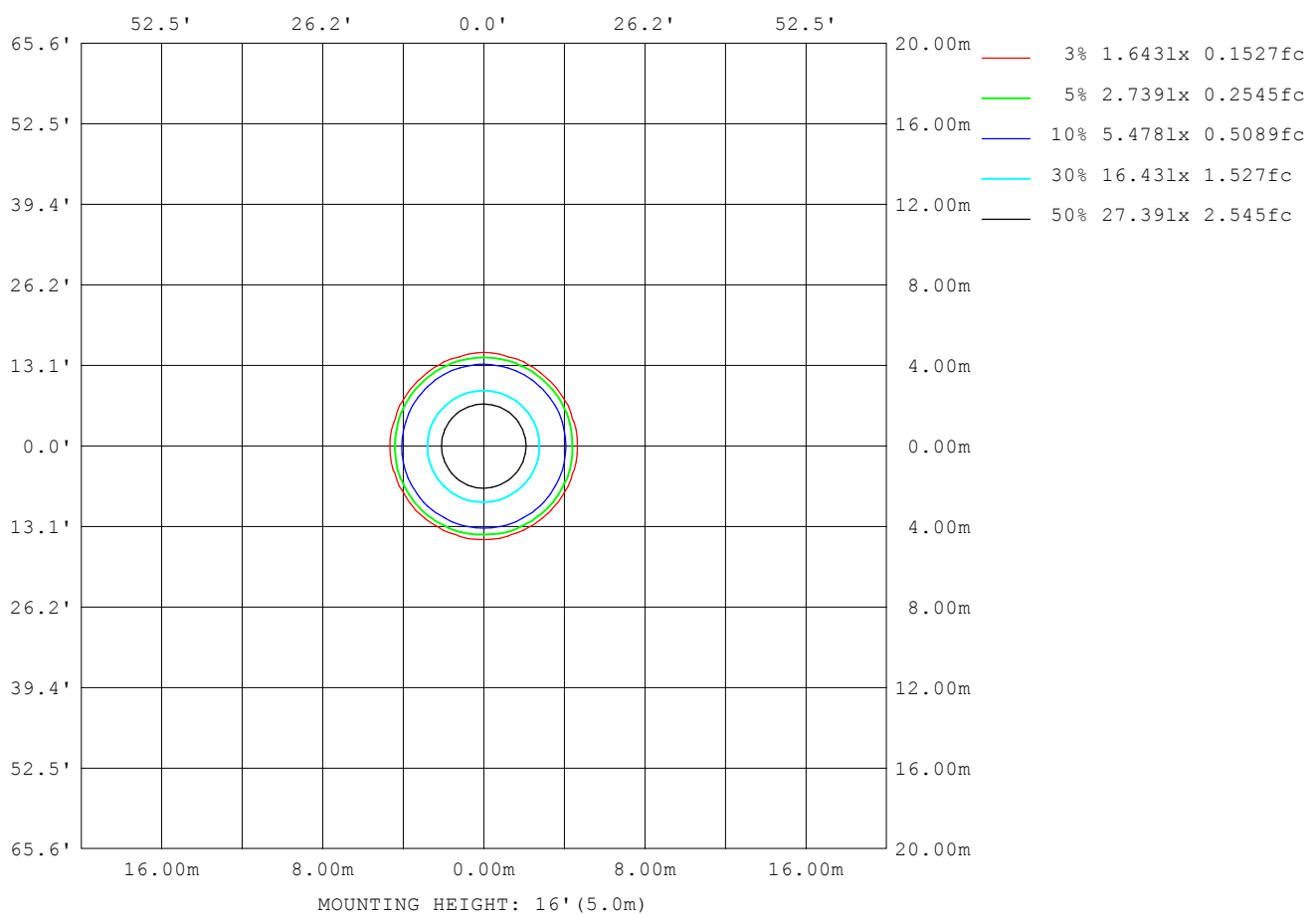
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: RAD35R-15-CCT-UNV-50C-WT	TYPE:4000K CRI90	WEIGHT:
SPEC.:50D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

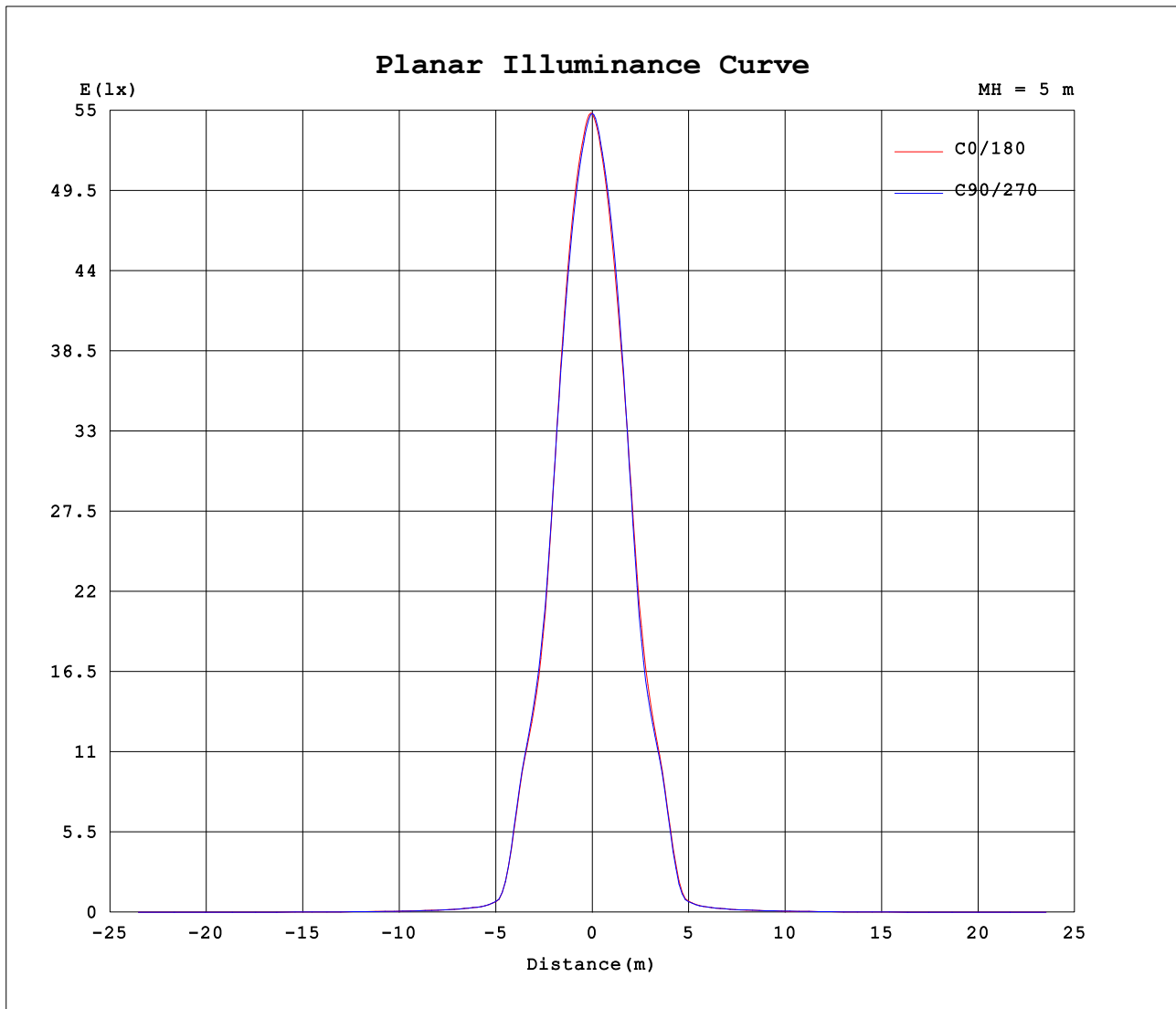
AvgL	cd/m2
L_0~180 (65) av	12713
L_0~180 (75) av	12211
L_0~180 (85) av	979
L_90~270 (65) av	12681
L_90~270 (75) av	12106
L_90~270 (85) av	1857
L_45 (65) av	12708
L_45 (75) av	12151
L_45 (85) av	1871

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-06

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_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: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-06-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.620m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```