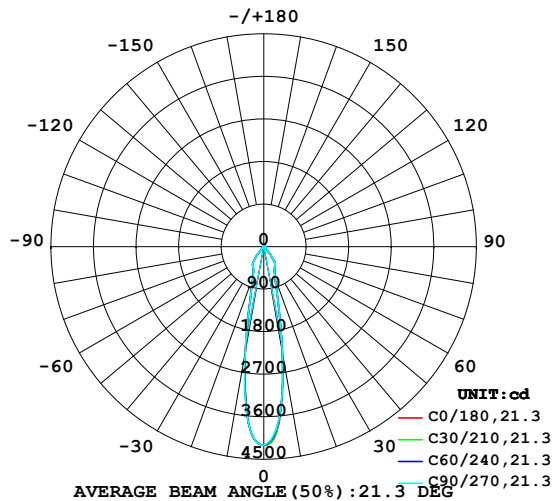


LUMINAIRE PHOTOMETRIC TEST REPORT

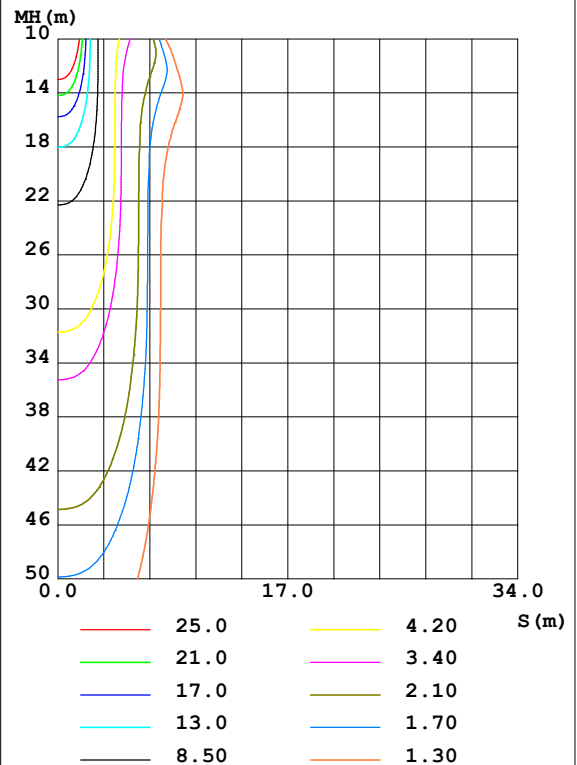
NAME: RAD35R-15-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.57 lm/W			
MODEL		Imax(cd)	4200	S/MH(C0/180)	0.36
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1232.6	η UP,DN(C0-180)	0.0,50.8
NOMINAL FLUX(lm)	1232.62	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.00

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: 2025-06-13

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	2286	2329	2288	2307	2288	2233	2289	2269	0- 10	306.7	306.7	24.9, 24.9
20	702.8	723.2	714.9	708.3	686.7	663.4	667.6	677.4	10- 20	333.8	640.5	52, 52
30	475.8	478.1	477.2	475.0	472.9	468.4	468.4	472.5	20- 30	252.9	893.4	72.5, 72.5
40	203.2	224.8	221.5	211.1	195.4	183.8	183.8	189.7	30- 40	228.4	1122	91, 91
50	31.78	31.85	31.79	32.02	32.09	32.65	33.49	32.96	40- 50	60.93	1183	95.9, 95.9
60	19.14	19.09	19.18	19.43	19.54	19.35	19.40	19.38	50- 60	21.51	1204	97.7, 97.7
70	14.49	14.33	14.39	14.68	14.93	14.87	14.85	14.76	60- 70	16.55	1221	99, 99
80	3.708	3.741	3.538	3.604	3.665	3.628	3.815	3.783	70- 80	10.85	1232	99.9, 99.9
90	0.1175	0.1094	0.1155	0.1070	0.2063	0.2044	0.2049	0.2023	80- 90	1.055	1233	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): 1165.4 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 1204.2 lm

%lum = 97.7%

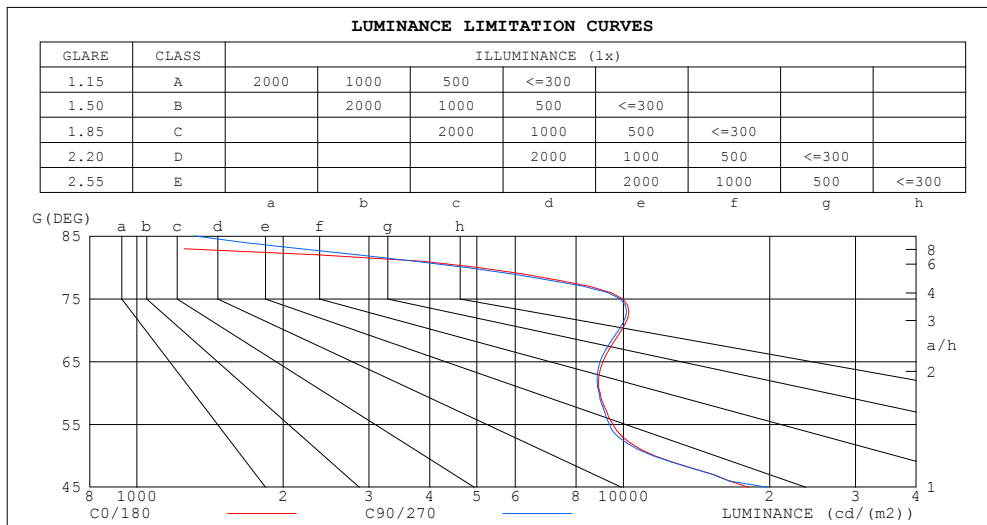
%lamp = 97.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	473	1317
80	4999	4735
75	9966	9850
70	9918	9780
65	9081	8965
60	8960	8915
55	9521	9362
50	11572	11494
45	18135	19748

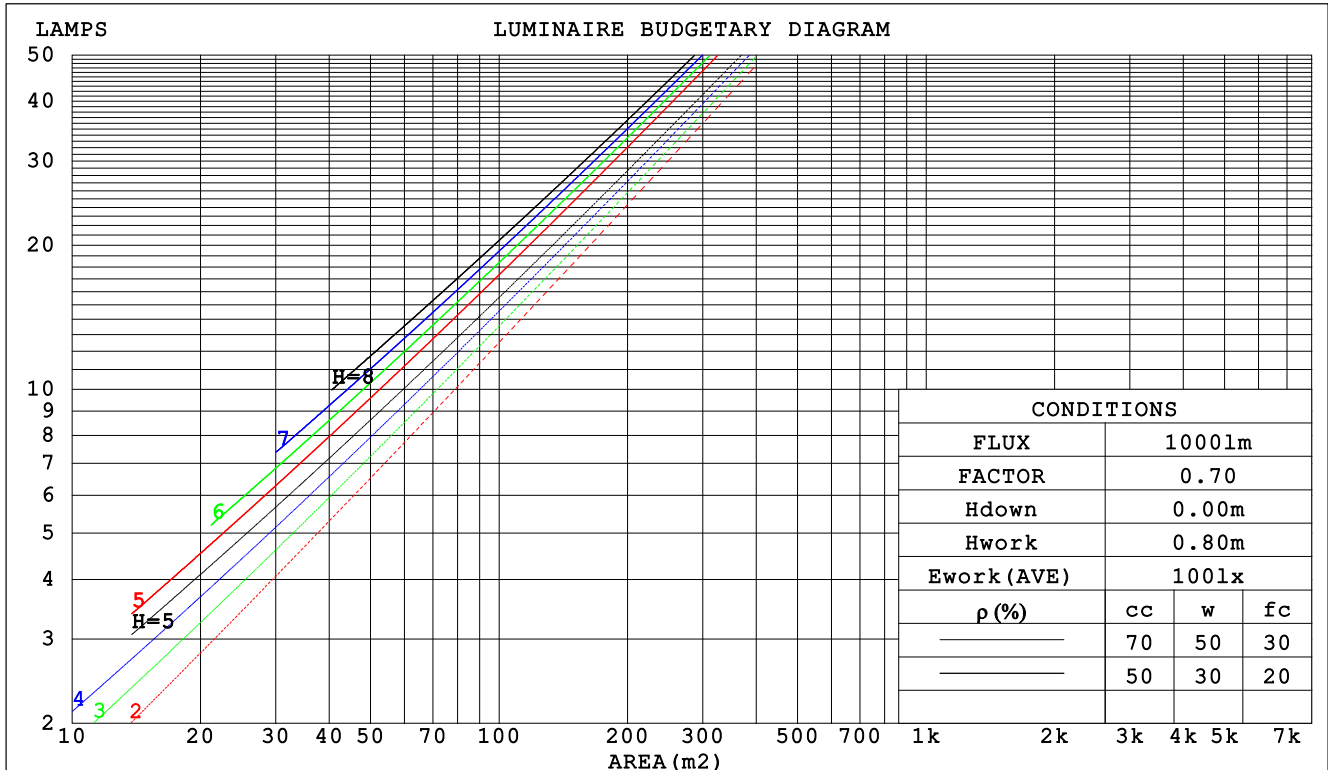
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:#74MM	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	1.02	1.02	1.02	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.88	.94	.90	.87	.91	.88	.86	.89	.86	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.77	.73	.80	.76	.72	.79	.75	.72	.78	.74	.71	.70
7.0	.78	.73	.69	.78	.73	.69	.77	.72	.69	.75	.71	.68	.74	.71	.68	.67
8.0	.75	.69	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.66	.62	.59	.58



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:#74MM	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	.172	.098	.031	.165	.094	.030	.153	.088	.028	.141	.081	.026	.130	.076	.024		
2.0	.163	.089	.027	.157	.087	.027	.147	.082	.025	.137	.077	.024	.128	.073	.023		
3.0	.154	.082	.025	.149	.080	.024	.140	.076	.023	.132	.072	.022	.124	.069	.021		
4.0	.145	.075	.022	.141	.074	.022	.133	.071	.021	.126	.068	.020	.120	.065	.020		
5.0	.137	.070	.020	.134	.069	.020	.127	.066	.019	.121	.064	.019	.115	.061	.018		
6.0	.130	.065	.019	.127	.064	.018	.121	.062	.018	.116	.060	.018	.111	.058	.017		
7.0	.123	.061	.017	.121	.060	.017	.116	.058	.017	.111	.057	.017	.106	.055	.016		
8.0	.117	.057	.016	.115	.057	.016	.111	.055	.016	.106	.054	.016	.102	.053	.015		
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.068	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.033	.016	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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-DTW-UNV-15C-WT					TYPE:DTW CRI90					WEIGHT:				
SPEC.:15C					DIM.:					SERIAL No.:1				
MFR.:					SUR.:#74MM					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					19.2	20.1	19.4	20.2	20.4	19.3	20.2	19.6	20.4	20.5
3H					19.4	20.2	19.7	20.4	20.6	19.5	20.3	19.8	20.5	20.7
4H					19.6	20.3	19.8	20.6	20.8	19.7	20.4	19.9	20.6	20.9
6H					19.6	20.3	19.9	20.6	20.8	19.7	20.4	20.0	20.6	20.9
8H					19.6	20.3	19.9	20.5	20.8	19.6	20.3	20.0	20.6	20.9
12H					19.5	20.2	19.8	20.5	20.7	19.6	20.3	19.9	20.5	20.8
4H 2H					19.1	19.9	19.4	20.1	20.3	19.2	20.0	19.5	20.2	20.4
3H					19.4	20.1	19.8	20.4	20.7	19.5	20.2	19.9	20.5	20.7
4H					19.7	20.3	20.1	20.6	20.9	19.8	20.4	20.1	20.7	21.0
6H					19.8	20.3	20.2	20.7	21.0	19.9	20.4	20.2	20.7	21.1
8H					19.8	20.3	20.2	20.6	21.0	19.8	20.3	20.2	20.7	21.0
12H					19.7	20.2	20.1	20.5	20.9	19.8	20.2	20.2	20.6	21.0
8H 4H					19.7	20.2	20.1	20.6	20.9	19.8	20.3	20.2	20.7	21.0
6H					19.8	20.3	20.3	20.6	21.1	19.9	20.3	20.3	20.7	21.1
8H					19.8	20.2	20.3	20.6	21.0	19.9	20.2	20.3	20.6	21.1
12H					19.8	20.1	20.2	20.5	21.0	19.8	20.1	20.3	20.6	21.0
12H 4H					19.7	20.1	20.1	20.5	20.9	19.8	20.2	20.2	20.6	21.0
6H					19.8	20.2	20.2	20.6	21.0	19.9	20.2	20.3	20.6	21.1
8H					19.8	20.1	20.2	20.5	21.0	19.8	20.1	20.3	20.6	21.0
Variations with the observer position at spacings:														
S = 1.0H					+ 2.3 / - 3.5					+ 2.4 / - 3.6				
1.5H					+ 4.5 / - 3.3					+ 4.6 / - 3.5				
2.0H					+ 1.3 / - 0.6					+ 1.6 / - 0.6				

CIE Pub.117, 1233 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:2025-06-13

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:

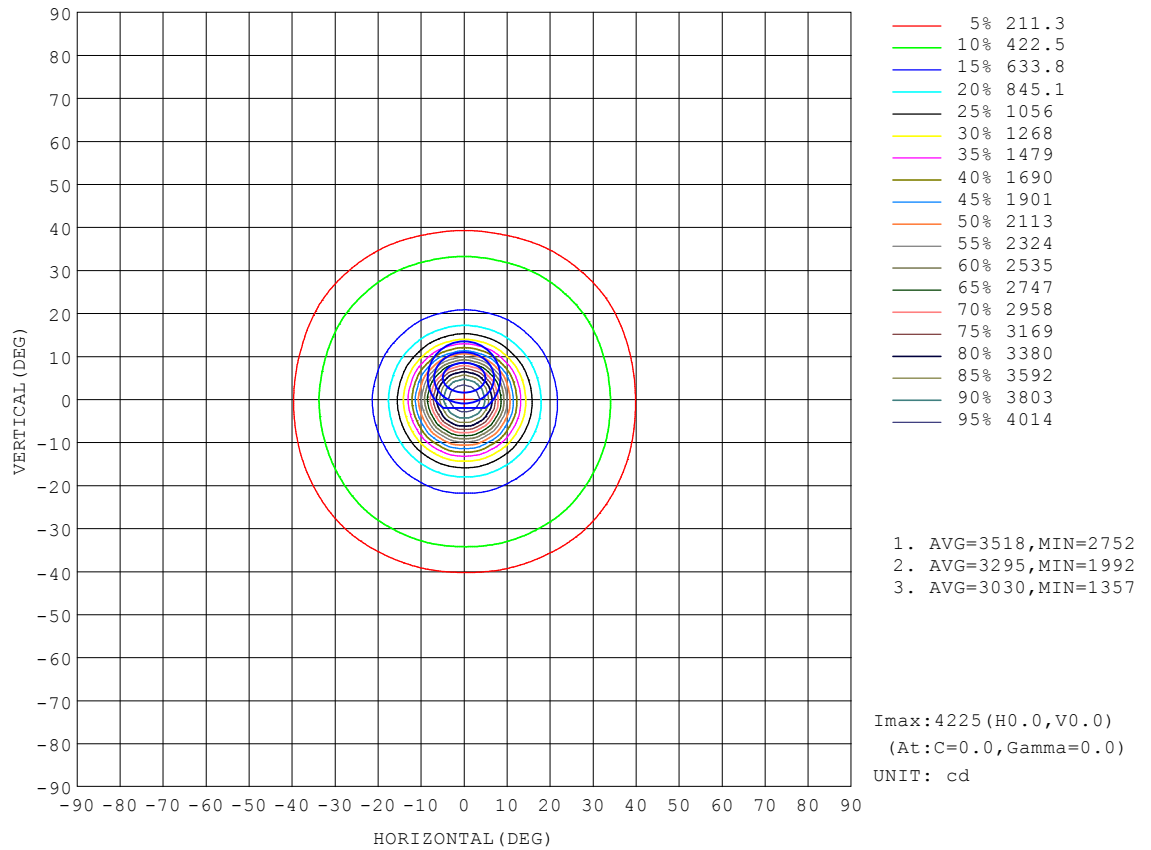
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Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME: RAD35R-15-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

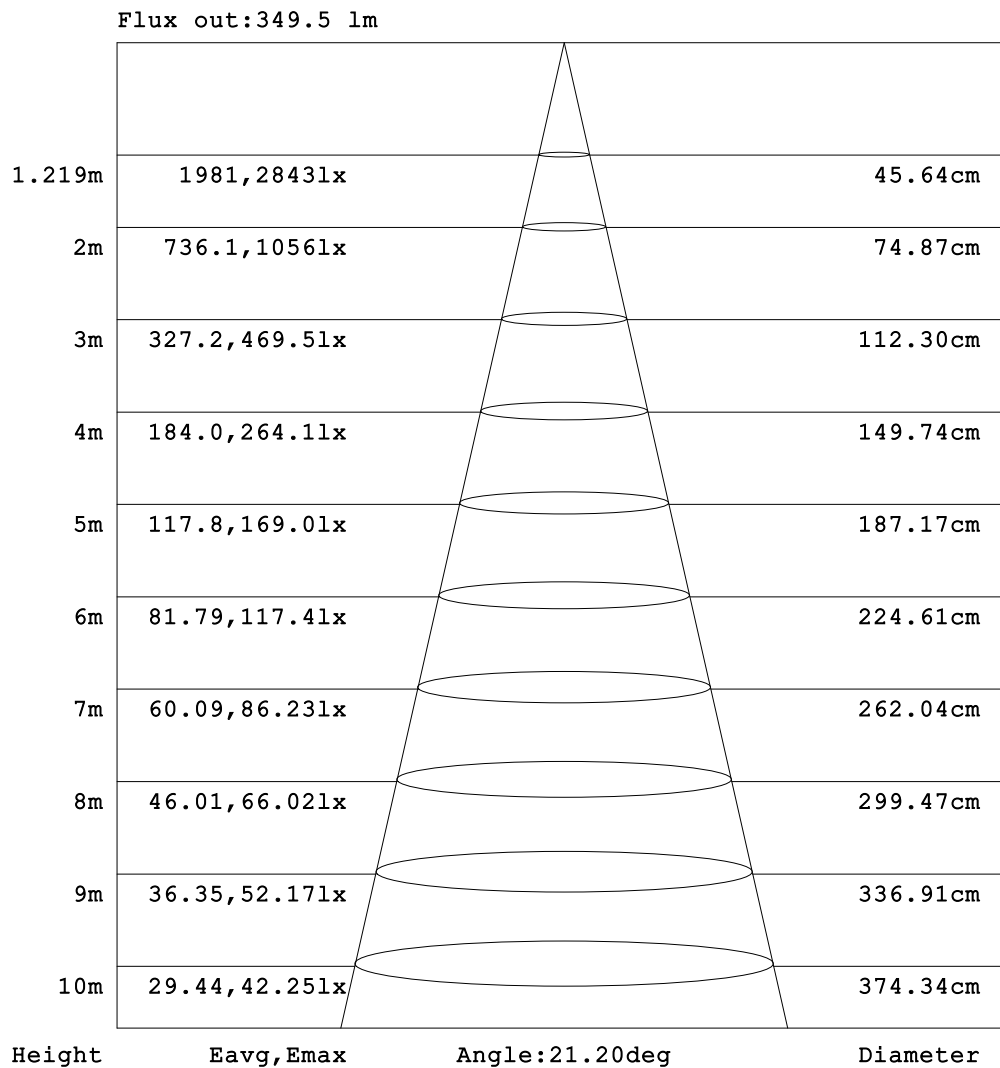


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:



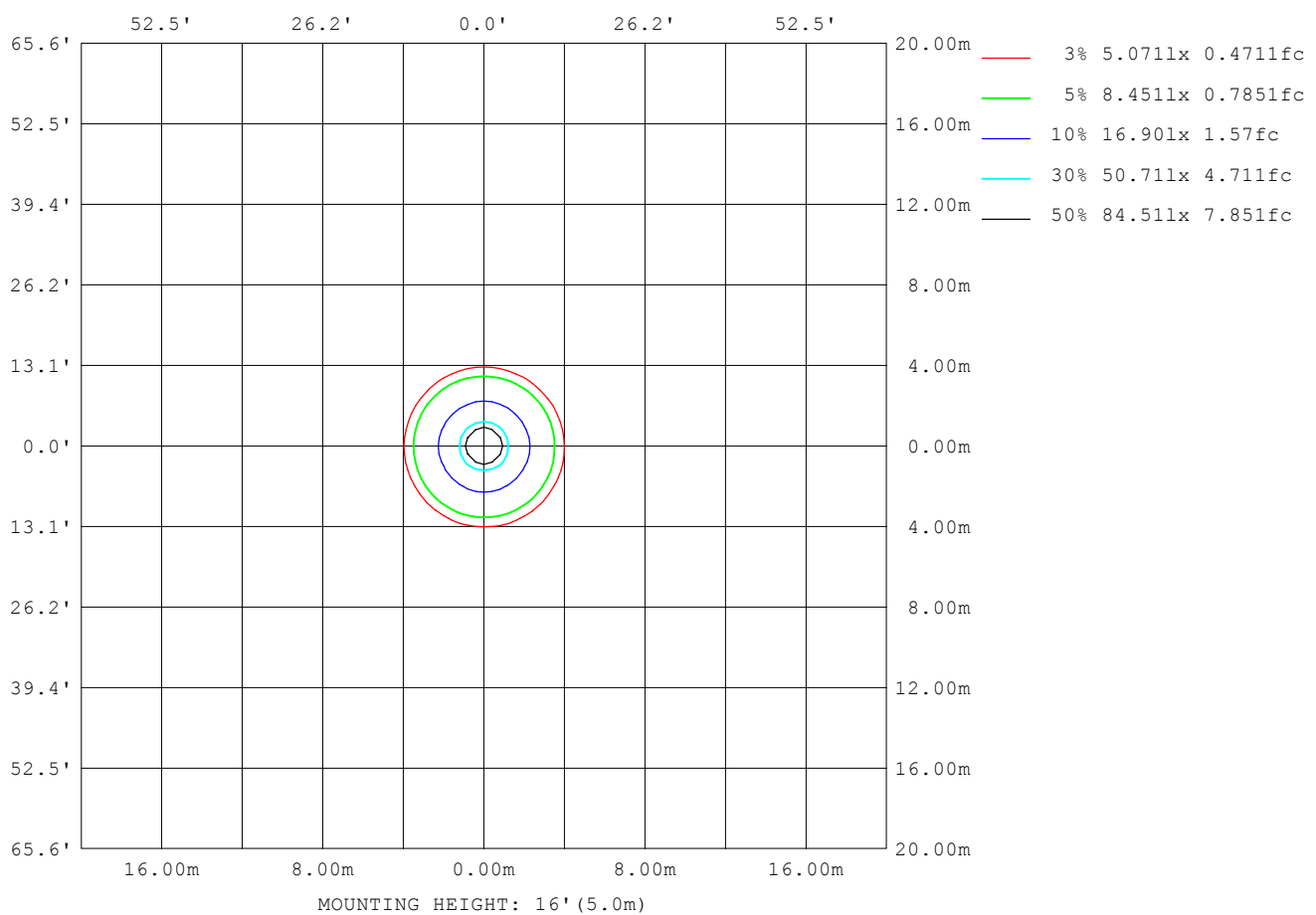
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	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:2025-06-13

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-DTW-UNV-15C-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:15C	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ74MM	Shielding Angle:

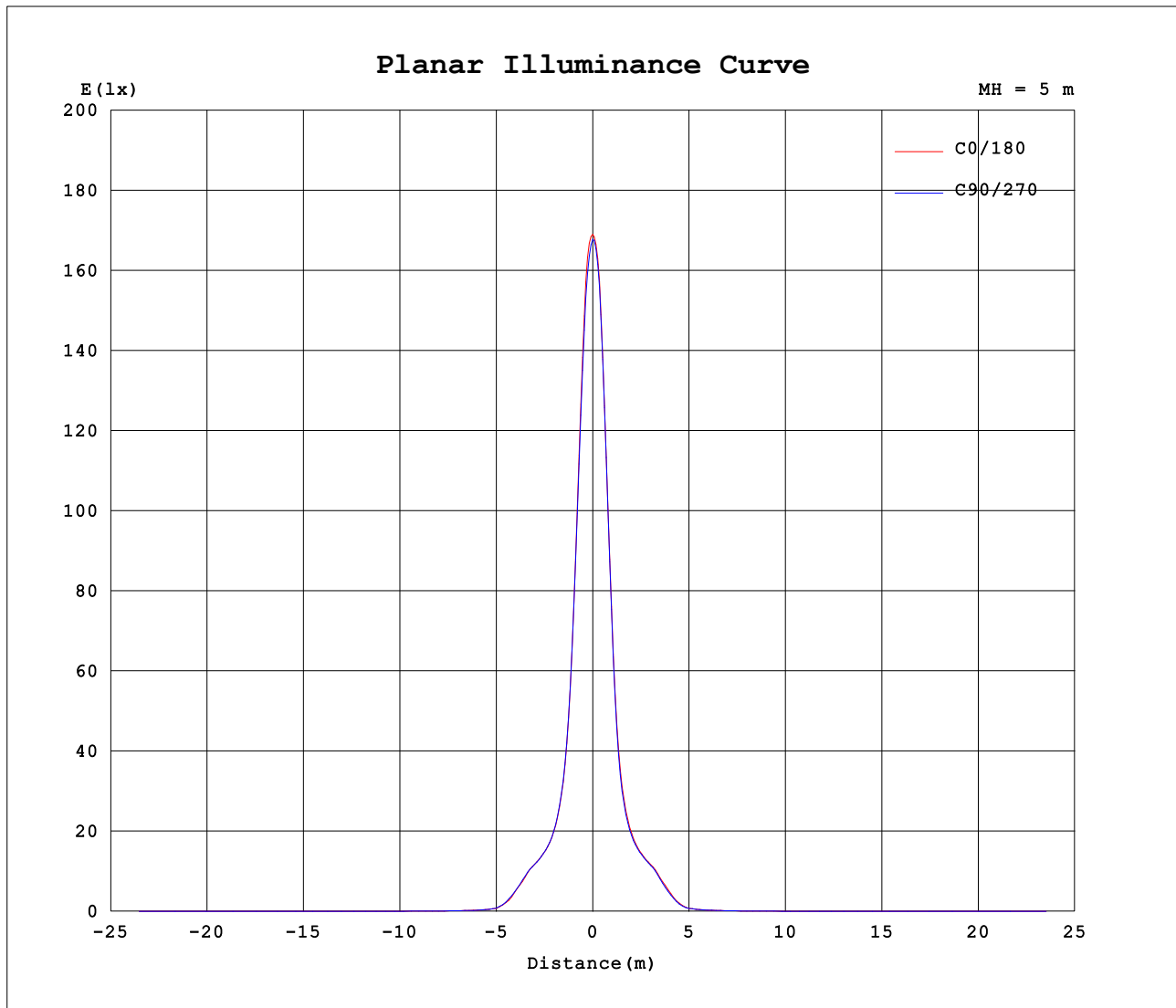
AvgL	cd/m2
L_0~180 (65) av	9149
L_0~180 (75) av	10073
L_0~180 (85) av	793
L_90~270 (65) av	9080
L_90~270 (75) av	10049
L_90~270 (85) av	1404
L_45 (65) av	9118
L_45 (75) av	10054
L_45 (85) av	1401

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-13

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: 2025-06-13

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:

```