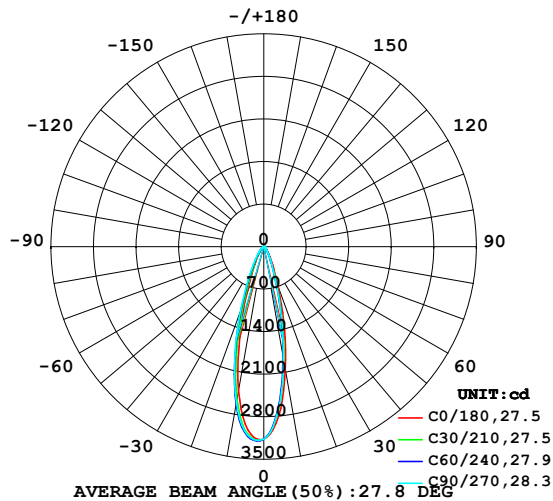


LUMINAIRE PHOTOMETRIC TEST REPORT

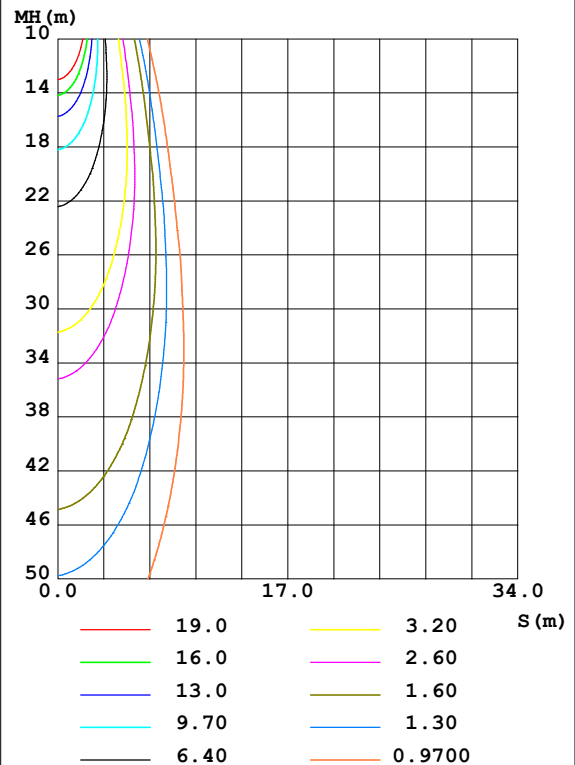
NAME: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.19 lm/W			
MODEL		Imax(cd)	3200	S/MH(C0/180)	0.49
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1043.8	η UP,DN(C0-180)	0.0,42.5
NOMINAL FLUX(lm)	1043.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,57.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.50

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:2025-06-10

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	2054	1890	1877	2125	2405	2568	2607	2344	0- 10	255.9	255.9	24.5,24.5
20	680.0	560.4	535.8	646.9	810.9	1005	1112	943.2	10- 20	390.8	646.8	62,62
30	225.4	183.8	184.4	209.9	244.5	285.5	360.9	314.6	20- 30	204.3	851.0	81.5,81.5
40	91.04	76.12	75.74	86.57	98.03	111.9	137.0	123.2	30- 40	100.6	951.6	91.2,91.2
50	35.96	31.98	31.66	35.67	39.74	45.08	50.76	44.99	40- 50	49.70	1001	95.9,95.9
60	15.75	14.14	14.11	16.52	18.32	19.62	20.33	18.20	50- 60	23.68	1025	98.2,98.2
70	6.655	6.418	6.591	7.208	8.023	8.570	8.677	7.735	60- 70	11.35	1036	99.3,99.3
80	2.841	2.500	2.563	3.229	3.884	4.216	4.213	3.581	70- 80	5.699	1042	99.8,99.8
90	0.0850	0.0859	0.0868	0.0873	0.2948	0.4439	0.5963	0.1949	80- 90	1.711	1044	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): 981.13 lm

%lum = 94.0%

%lamp = 94.0%

Conical surface Flux(120deg): 1025 lm

%lum = 98.2%

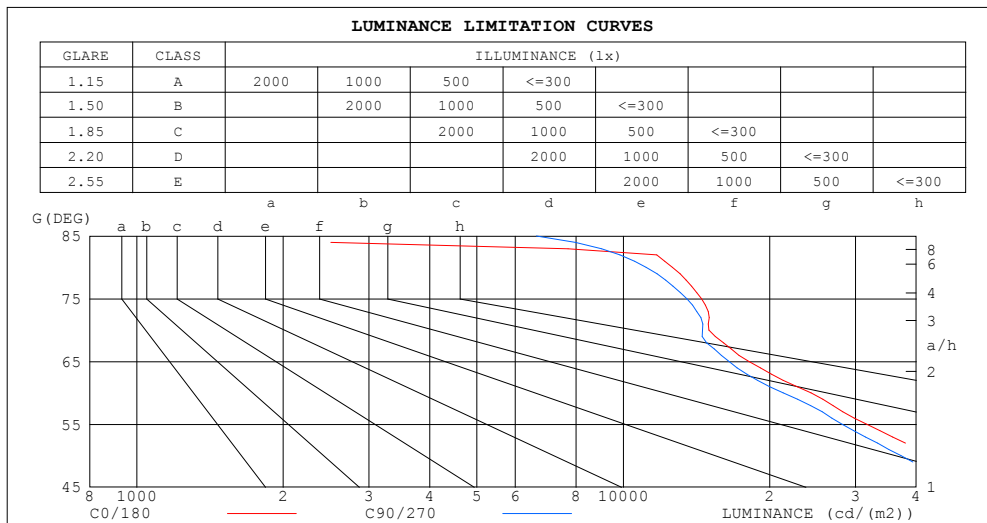
%lamp = 98.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	729	6632
80	12620	11147
75	14482	13512
70	15006	14553
65	18123	16499
60	24299	21305
55	31656	28163
50	43146	37197
45	61987	51418

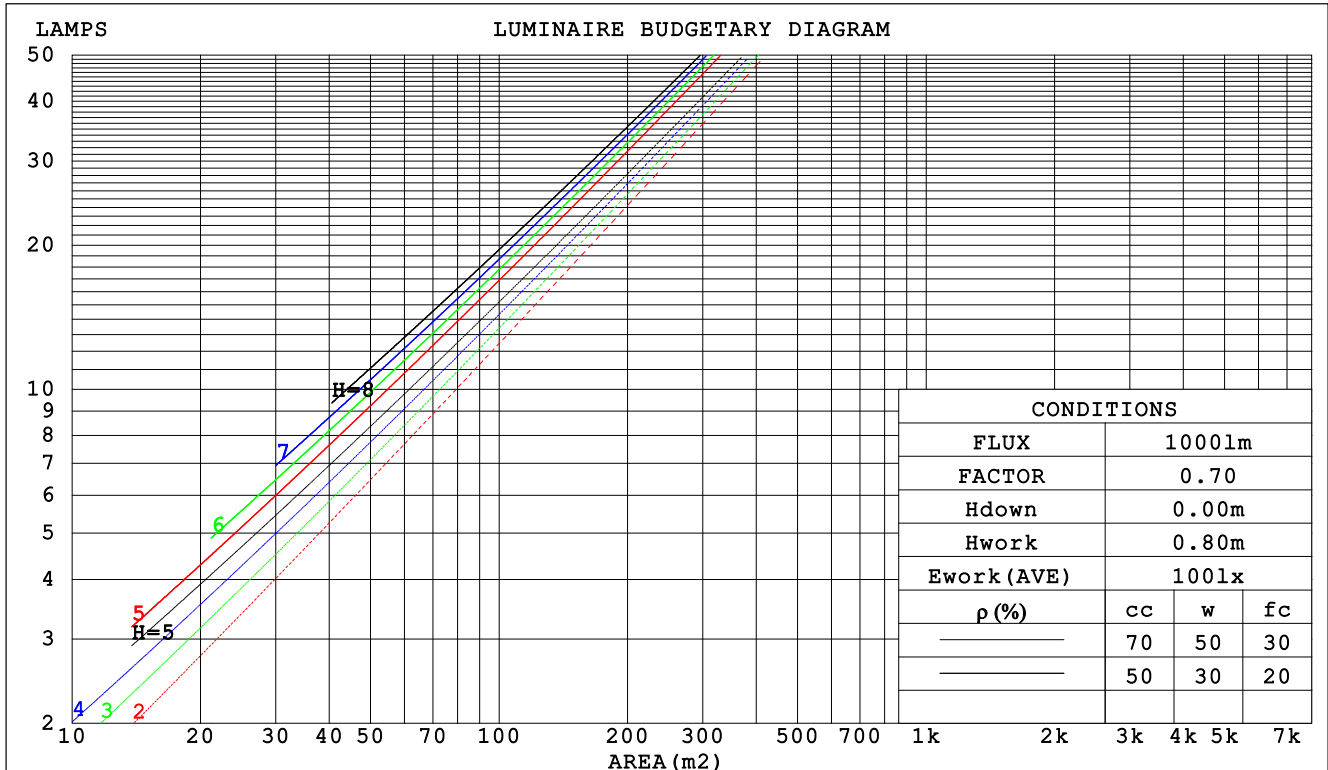
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:#41MM	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															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:#41MM	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	.164	.093	.030	.157	.090	.029	.145	.083	.027	.133	.077	.025	.123	.071	.023		
2.0	.154	.085	.026	.149	.082	.025	.138	.077	.024	.129	.072	.023	.120	.068	.021		
3.0	.145	.077	.023	.140	.075	.023	.132	.071	.022	.123	.068	.021	.116	.064	.020		
4.0	.137	.071	.021	.133	.069	.021	.125	.066	.020	.118	.063	.019	.112	.061	.018		
5.0	.129	.066	.019	.126	.064	.019	.119	.062	.018	.113	.060	.018	.107	.057	.017		
6.0	.122	.061	.018	.119	.060	.017	.114	.058	.017	.108	.056	.017	.103	.054	.016		
7.0	.116	.057	.016	.113	.056	.016	.108	.055	.016	.104	.053	.015	.099	.052	.015		
8.0	.110	.054	.015	.108	.053	.015	.104	.052	.015	.100	.050	.015	.096	.049	.014		
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.048	.013	.099	.048	.013	.095	.047	.013	.092	.046	.013	.089	.045	.013		

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	.170	.157	.146	.146	.135	.126	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.111	.077	.052	.096	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.045	.090	.060	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.075	.046	.026	.052	.032	.018	.031	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT					TYPE:DTW CRI90					WEIGHT:				
SPEC.:24D					DIM.:					SERIAL No.:1				
MFR.:					SUR.:Φ41MM					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					19.5	20.3	19.7	20.5	20.6	18.8	19.6	19.0	19.8	20.0
3H					19.7	20.5	20.0	20.7	20.9	19.1	19.8	19.3	20.0	20.2
4H					19.8	20.6	20.1	20.8	21.0	19.2	19.9	19.5	20.2	20.4
6H					19.9	20.6	20.2	20.8	21.1	19.3	20.0	19.6	20.2	20.5
8H					19.9	20.6	20.2	20.8	21.1	19.3	20.0	19.6	20.2	20.5
12H					19.9	20.5	20.2	20.8	21.1	19.3	19.9	19.6	20.2	20.4
4H 2H					19.5	20.2	19.8	20.4	20.6	18.9	19.6	19.1	19.8	20.0
3H					19.8	20.5	20.1	20.7	21.0	19.3	19.9	19.6	20.1	20.4
4H					20.0	20.6	20.4	20.9	21.2	19.5	20.0	19.8	20.3	20.6
6H					20.2	20.7	20.5	21.0	21.3	19.6	20.1	20.0	20.4	20.8
8H					20.2	20.7	20.6	21.0	21.4	19.6	20.1	20.0	20.5	20.8
12H					20.2	20.6	20.6	21.0	21.4	19.6	20.1	20.0	20.4	20.8
8H 4H					20.0	20.5	20.4	20.8	21.2	19.5	19.9	19.9	20.3	20.7
6H					20.2	20.6	20.6	21.0	21.4	19.7	20.1	20.1	20.5	20.9
8H					20.3	20.6	20.7	21.0	21.5	19.7	20.1	20.2	20.5	20.9
12H					20.3	20.6	20.7	21.0	21.5	19.7	20.0	20.2	20.5	20.9
12H 4H					20.0	20.4	20.4	20.8	21.2	19.4	19.9	19.8	20.2	20.6
6H					20.2	20.5	20.6	20.9	21.4	19.7	20.0	20.1	20.4	20.9
8H					20.3	20.6	20.7	21.0	21.5	19.7	20.0	20.2	20.5	20.9
Variations with the observer position at spacings:														
S = 1.0H					+ 1.6 / - 1.8					+ 1.2 / - 1.7				
1.5H					+ 2.6 / - 1.6					+ 2.0 / - 1.2				
2.0H					+ 2.7 / - 1.9					+ 2.1 / - 1.7				

CIE Pub.117, 1044 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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:

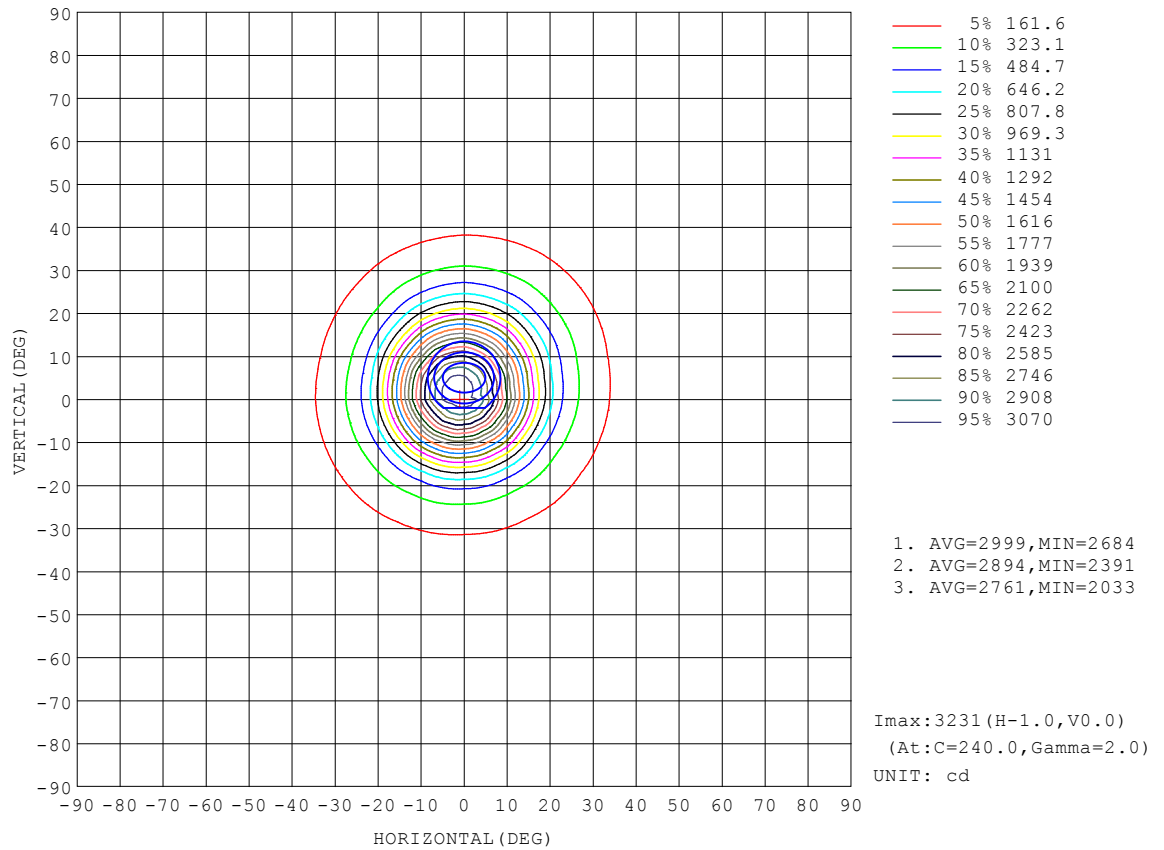
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Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

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ISOCANDELA DIAGRAM

NAME: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

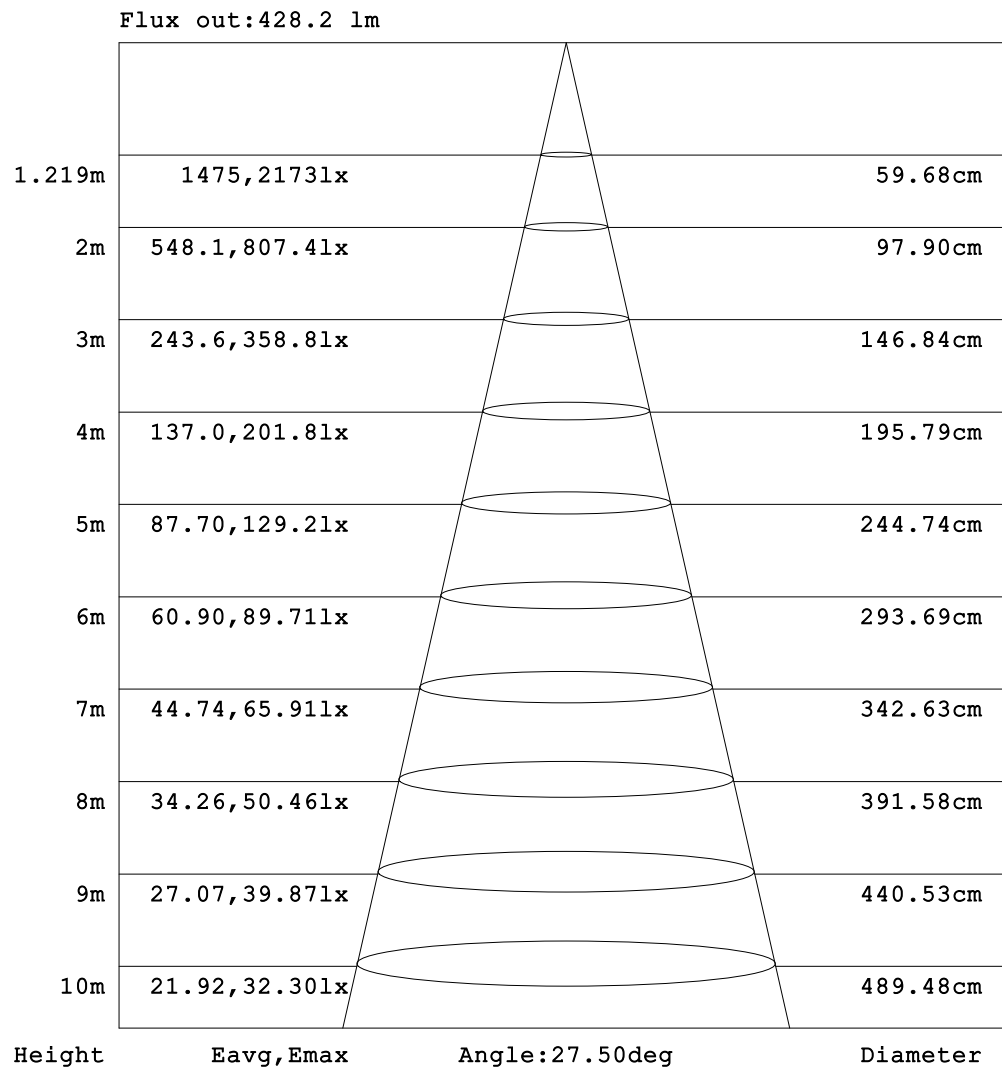


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



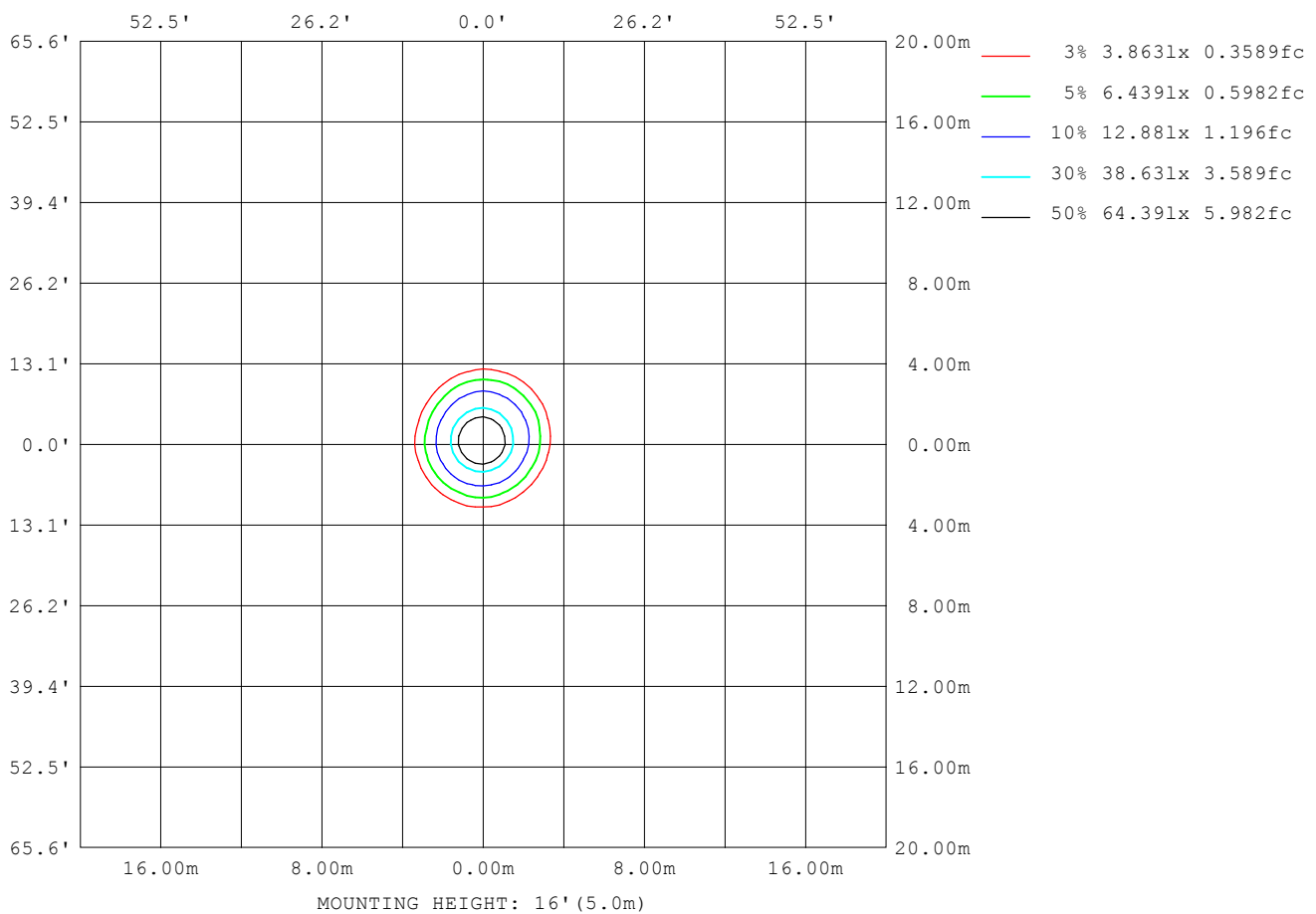
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: RAD25R-14-DTW-UNV-24-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:24D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

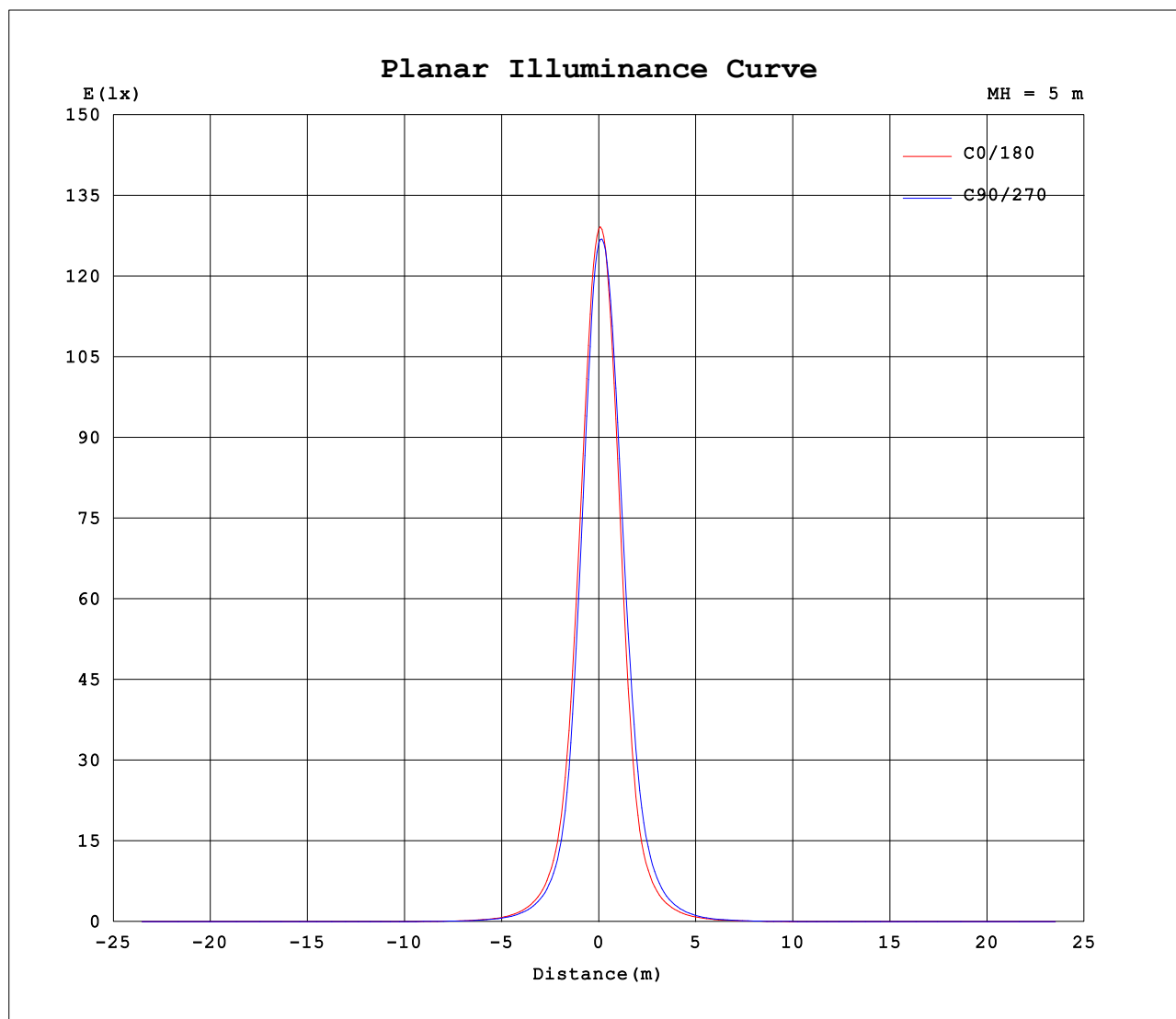
AvgL	cd/m2
L_0~180 (65) av	19364
L_0~180 (75) av	15863
L_0~180 (85) av	6106
L_90~270 (65) av	20175
L_90~270 (75) av	15858
L_90~270 (85) av	13243
L_45 (65) av	19770
L_45 (75) av	15860
L_45 (85) av	13212

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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: 2025-06-10

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:

```