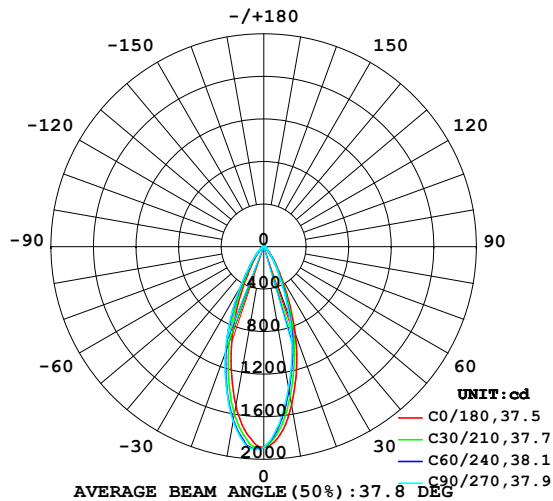


LUMINAIRE PHOTOMETRIC TEST REPORT

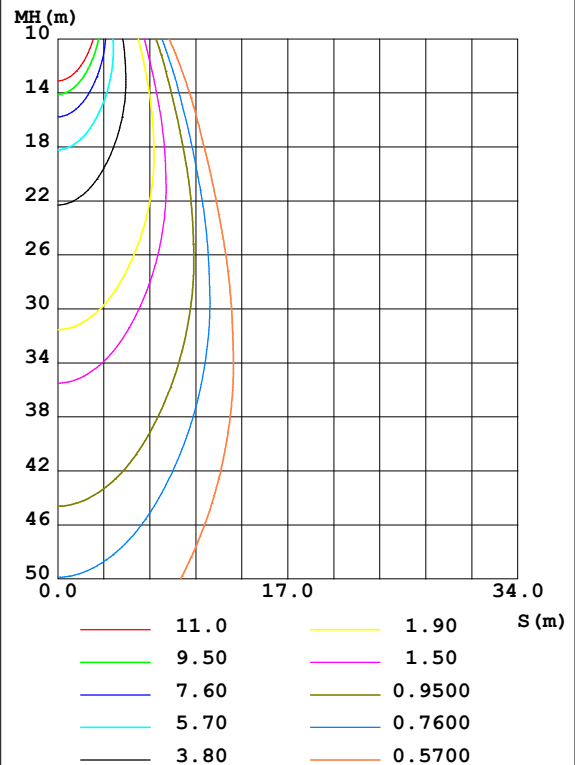
NAME: RAD25R-14-DTW-UNV-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.27 lm/W			
MODEL		Imax(cd)	1908	S/MH(C0/180)	0.60
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	0.70
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	988.02	η UP,DN(C0-180)	0.0,44.2
NOMINAL FLUX(lm)	988.021	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,55.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.65

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	1509	1393	1343	1408	1518	1636	1666	1626	0- 10	160.7	160.7	16.3,16.3
20	867.0	765.2	714.6	766.6	853.2	1002	1063	995.4	10- 20	329.6	490.3	49.6,49.6
30	324.2	285.6	259.3	267.8	306.2	401.4	453.6	398.2	20- 30	262.6	753.0	76.2,76.2
40	115.5	96.90	89.29	95.59	111.6	138.3	161.1	145.7	30- 40	128.3	881.2	89.2,89.2
50	37.30	34.19	33.02	35.56	40.71	47.69	52.28	45.20	40- 50	54.90	936.1	94.7,94.7
60	19.76	18.34	17.32	19.45	22.89	24.94	25.65	23.12	50- 60	26.50	962.6	97.4,97.4
70	9.293	8.694	8.770	9.511	11.08	12.33	12.46	11.06	60- 70	15.03	977.7	99,99
80	4.224	3.507	3.384	4.158	5.276	6.089	6.152	5.296	70- 80	7.942	985.6	99.8,99.8
90	0.1323	0.1353	0.1356	0.1328	0.2243	0.6994	0.4673	0.3724	80- 90	2.417	988.0	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): 914.99 lm

%lum = 92.6%

%lamp = 92.6%

Conical surface Flux(120deg): 962.63 lm

%lum = 97.4%

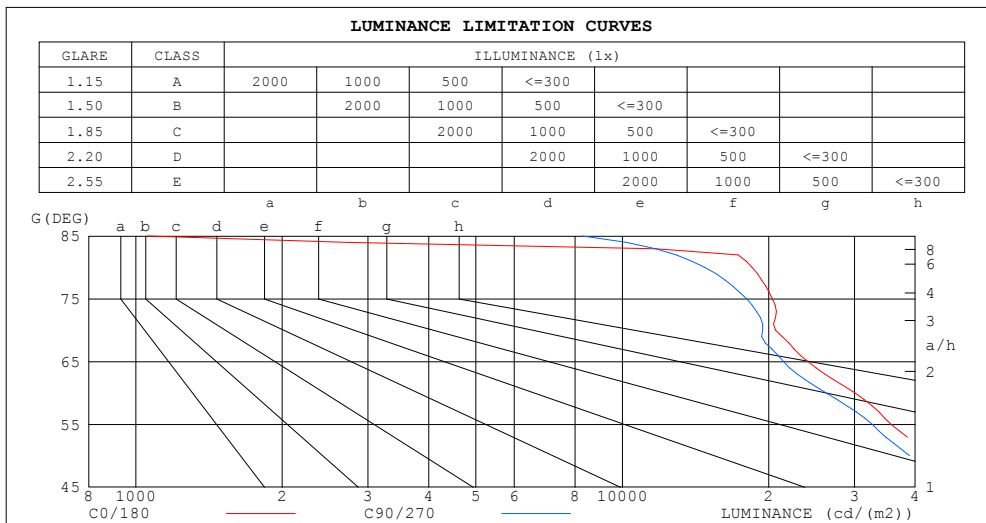
%lamp = 97.4%

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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1054	8275
80	18492	14766
75	20332	18001
70	20655	19432
65	24058	21451
60	30040	26248
55	35678	32606
50	44109	38932
45	66391	52445

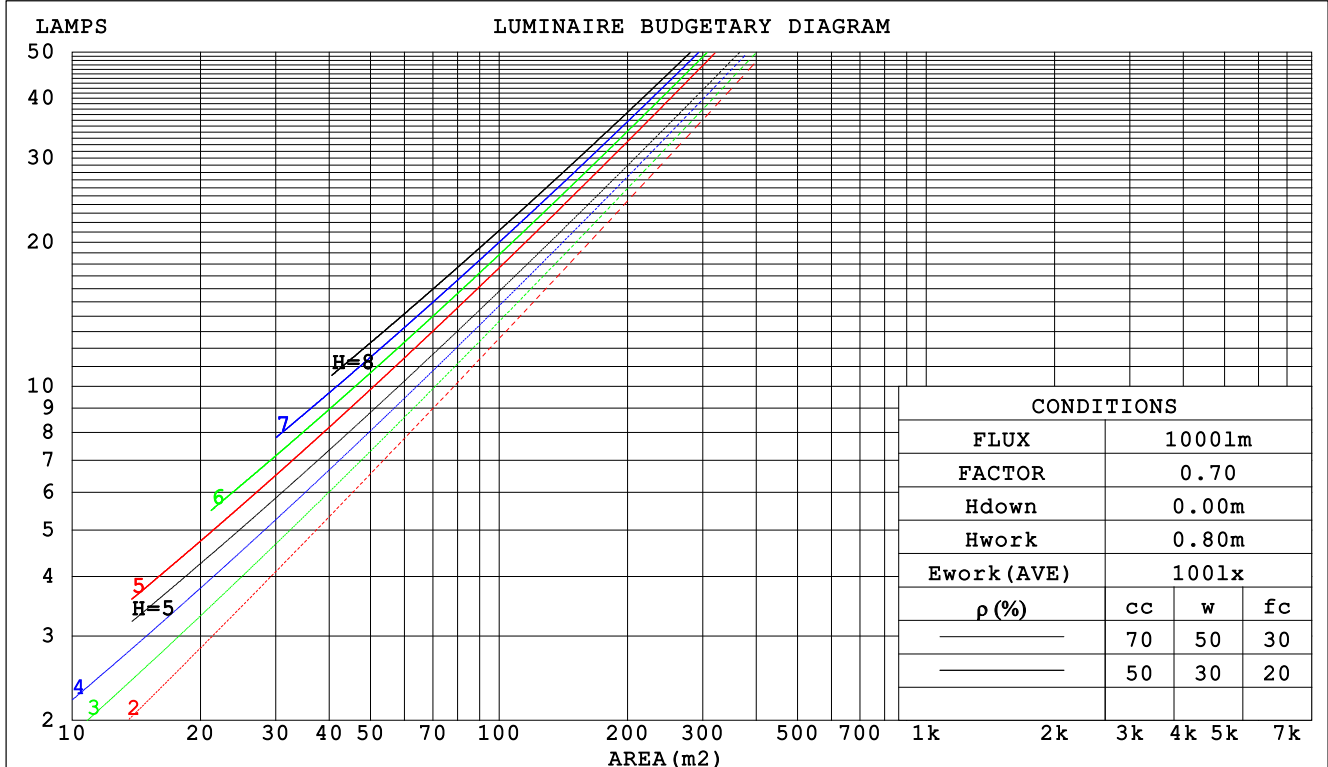
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	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			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	.00
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.93	.89	.86	.90	.87	.84	.88	.85	.83	.82
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.85	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.85	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.72
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.73	.69	.66	.72	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.63	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.57	.55



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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	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	.179	.102	.032	.172	.098	.031	.159	.092	.029	.148	.085	.027	.137	.080	.026		
2.0	.169	.093	.028	.164	.090	.028	.153	.085	.026	.143	.080	.025	.134	.076	.024		
3.0	.160	.085	.025	.155	.083	.025	.146	.079	.024	.138	.075	.023	.130	.072	.022		
4.0	.151	.078	.023	.147	.077	.023	.139	.074	.022	.132	.071	.021	.125	.068	.021		
5.0	.143	.073	.021	.139	.071	.021	.132	.069	.020	.126	.067	.020	.120	.064	.019		
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.121	.063	.018	.116	.061	.018		
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017		
8.0	.123	.060	.017	.120	.059	.017	.116	.058	.016	.111	.056	.016	.107	.055	.016		
9.0	.117	.057	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	.103	.052	.015		
10.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.103	.051	.015	.099	.050	.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	.147	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.133	.113	.134	.114	.098	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.099	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.003	

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-38-WT					TYPE:DTW CRI90					WEIGHT:				
SPEC.:38D					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					21.5	22.4	21.7	22.5	22.7	20.7	21.6	20.9	21.7	21.9
3H					21.7	22.6	22.0	22.8	23.0	21.0	21.8	21.2	22.0	22.2
4H					21.9	22.7	22.2	22.9	23.1	21.1	21.9	21.4	22.2	22.4
6H					22.0	22.8	22.3	23.0	23.2	21.2	22.0	21.5	22.2	22.5
8H					22.0	22.8	22.3	23.0	23.3	21.3	22.0	21.6	22.2	22.5
12H					22.0	22.7	22.3	23.0	23.2	21.2	21.9	21.6	22.2	22.5
4H 2H					21.5	22.3	21.7	22.5	22.7	20.7	21.5	21.0	21.7	22.0
3H					21.8	22.5	22.2	22.8	23.1	21.2	21.9	21.5	22.1	22.4
4H					22.1	22.7	22.4	23.0	23.3	21.4	22.1	21.8	22.4	22.7
6H					22.3	22.9	22.7	23.2	23.5	21.6	22.2	22.0	22.5	22.8
8H					22.4	22.9	22.8	23.2	23.6	21.6	22.2	22.0	22.5	22.9
12H					22.3	22.8	22.8	23.2	23.6	21.6	22.1	22.1	22.5	22.9
8H 4H					22.1	22.6	22.5	23.0	23.3	21.5	22.0	21.9	22.3	22.7
6H					22.4	22.8	22.8	23.2	23.6	21.7	22.2	22.2	22.5	23.0
8H					22.5	22.9	22.9	23.3	23.7	21.8	22.2	22.2	22.6	23.0
12H					22.5	22.8	23.0	23.3	23.7	21.8	22.1	22.3	22.6	23.0
12H 4H					22.1	22.5	22.5	22.9	23.3	21.4	21.9	21.9	22.3	22.7
6H					22.4	22.7	22.8	23.2	23.6	21.7	22.1	22.2	22.5	23.0
8H					22.5	22.8	23.0	23.3	23.7	21.8	22.1	22.3	22.6	23.0
Variations with the observer position at spacings:														
S = 1.0H					+ 1.6 / - 1.7					+ 1.2 / - 1.5				
1.5H					+ 3.0 / - 1.3					+ 2.3 / - 1.2				
2.0H					+ 2.1 / - 1.2					+ 1.4 / - 1.1				

CIE Pub.117, 988.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.0)

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:

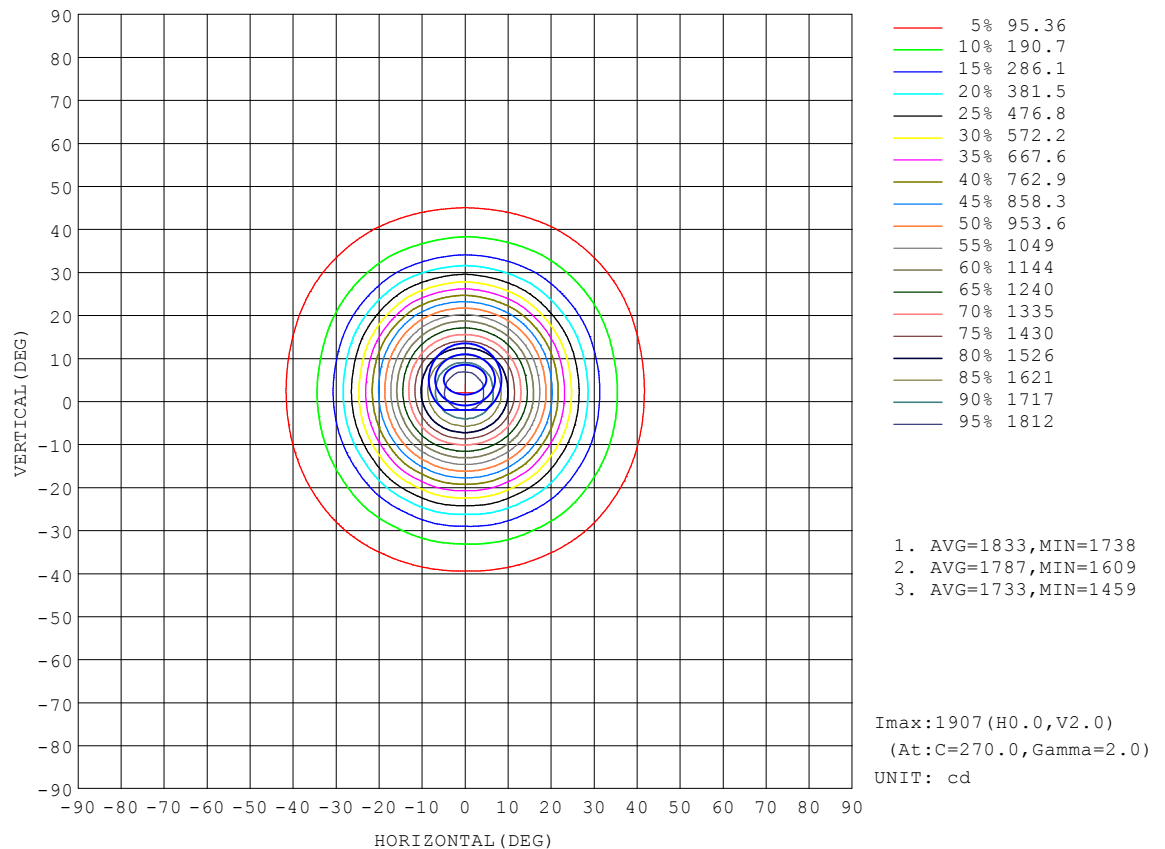
```

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: RAD25R-14-DTW-UNV-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

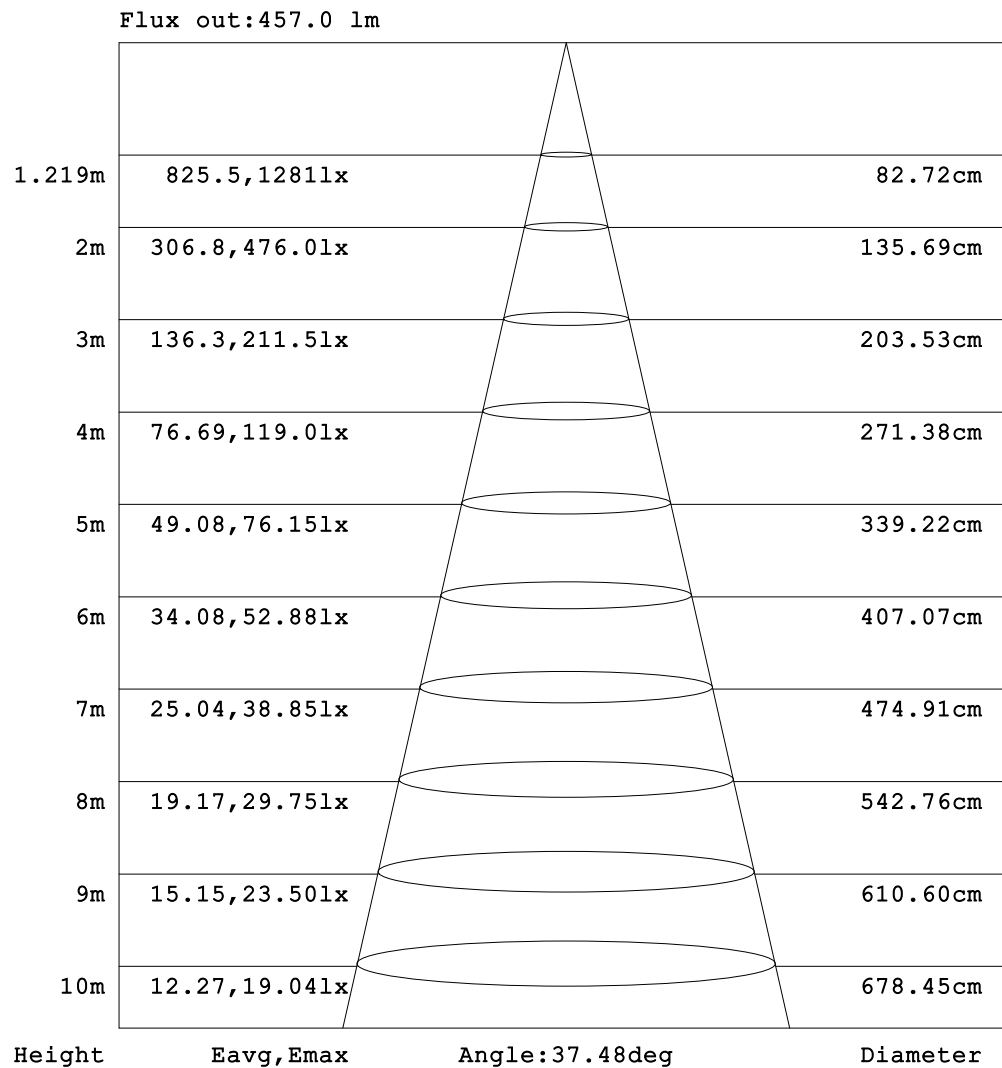


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-10

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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:



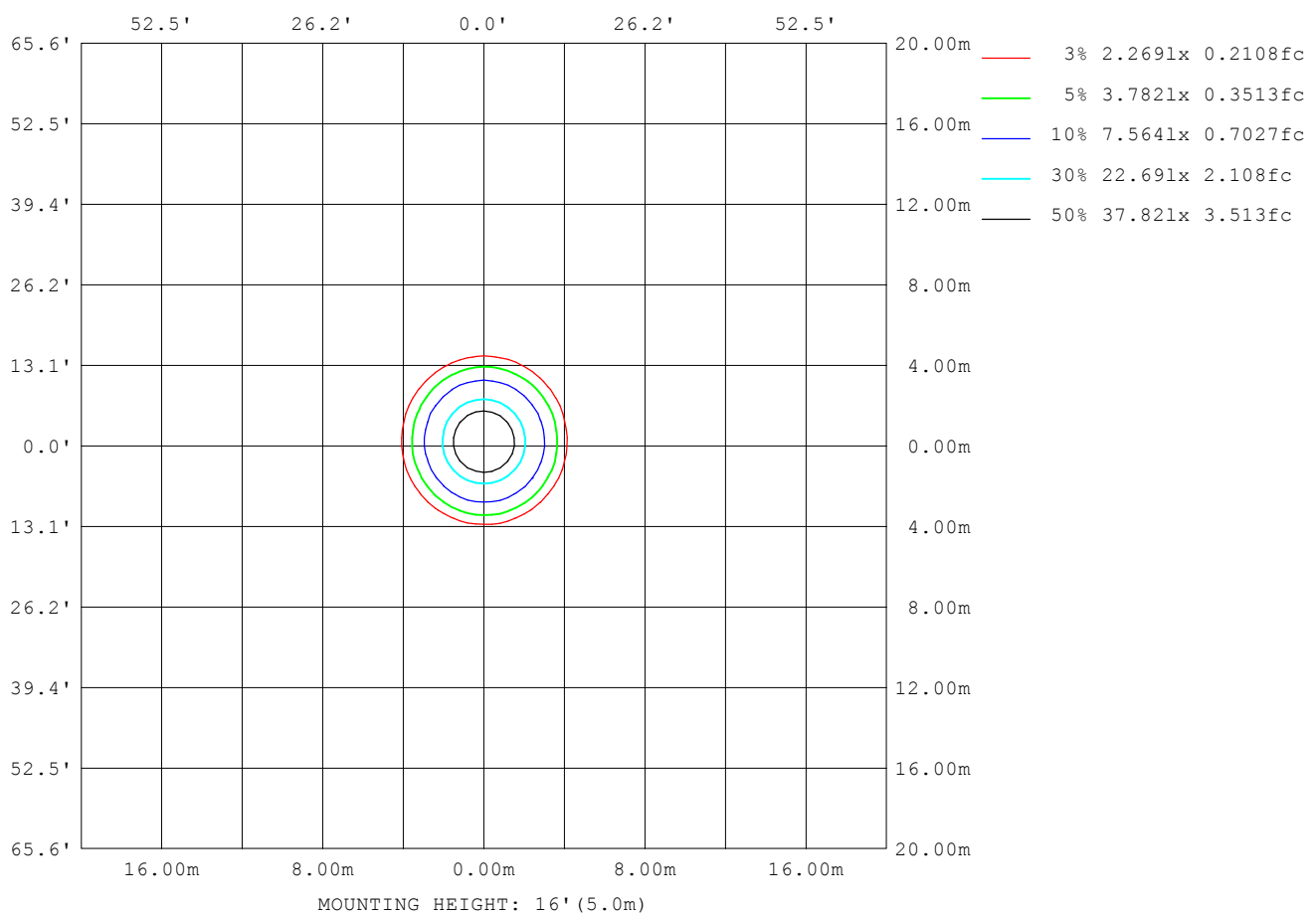
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	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-38-WT	TYPE:DTW CRI90	WEIGHT:
SPEC.:38D	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ41MM	Shielding Angle:

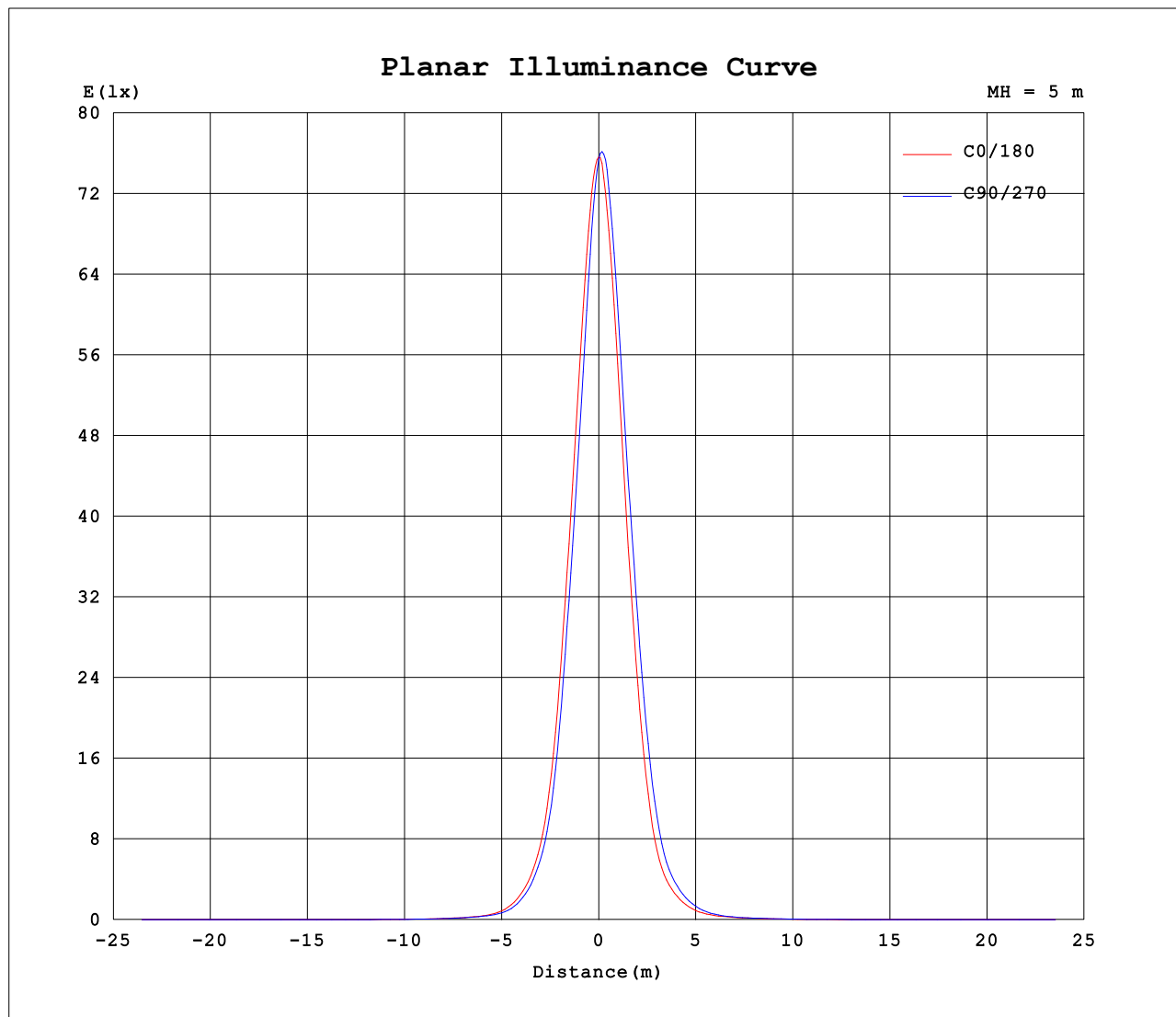
AvgL	cd/m2
L_0~180 (65) av	26170
L_0~180 (75) av	22171
L_0~180 (85) av	6516
L_90~270 (65) av	27155
L_90~270 (75) av	21972
L_90~270 (85) av	18928
L_45 (65) av	26583
L_45 (75) av	22076
L_45 (85) av	18868

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:

```

```

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:

```