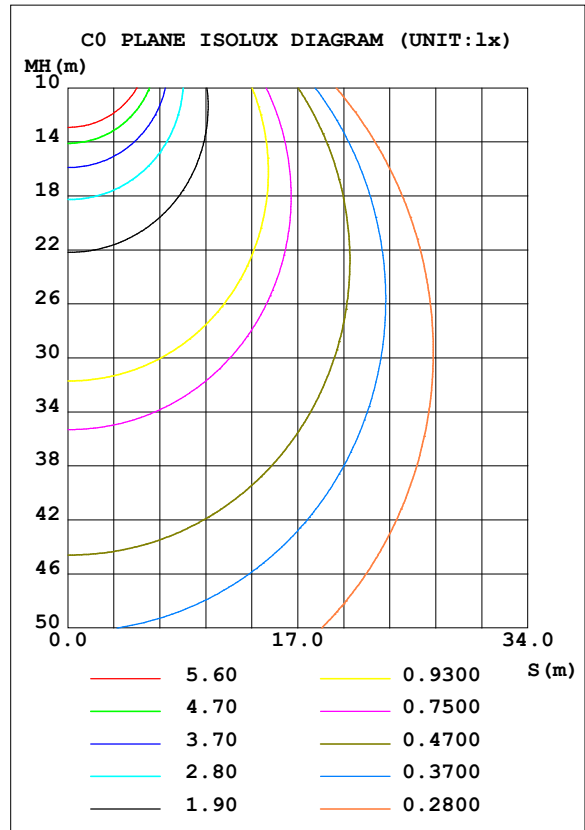
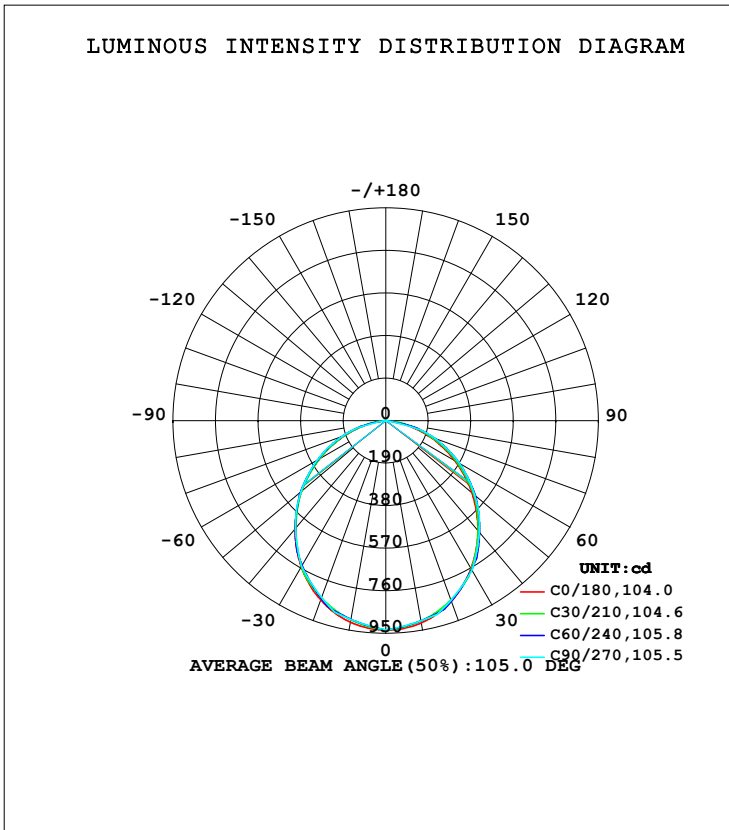


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.62 lm/W			
MODEL		I _{max} (cd)	934.9	S/MH (C0/180)	1.21
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	2407.0	η UP, DN (C0-180)	0.0, 50.8
NOMINAL FLUX (lm)	2406.96	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90 DEG
 H(β) Interval: 1.0 DEG
 Test Speed: HIGH
 Temperature: 25.3 DEG
 Operators:
 Test Date: 24 Aug 2023

V(B) Range: -75 - 75 DEG
 V(B) Interval: 5.0 DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 7.500m [K=1.0667]
 Remarks: TÜV RHEINLAND

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	917.2	907.4	907.8	905.5	913.7	901.1	901.4	902.9	0- 10	87.56	87.56	3.64,3.64
20	857.8	860.7	853.1	857.8	851.9	848.9	840.4	851.8	10- 20	249.1	336.7	14,14
30	762.0	763.2	770.6	758.9	754.9	745.9	751.8	749.8	20- 30	371.1	707.8	29.4,29.4
40	640.6	653.9	649.8	648.3	631.5	631.2	627.2	636.2	30- 40	437.4	1145	47.6,47.6
50	502.2	515.5	518.9	510.4	491.2	491.2	494.3	495.3	40- 50	440.8	1586	65.9,65.9
60	355.0	372.4	377.8	366.6	342.2	347.2	353.1	351.1	50- 60	385.2	1971	81.9,81.9
70	206.2	227.4	232.6	220.5	192.1	203.0	209.6	206.9	60- 70	282.0	2253	93.6,93.6
80	68.51	77.17	0	72.47	54.49	60.92	0	62.02	70- 80	143.5	2397	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	10.30	2407	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): 1368.9 lm

%lum = 56.9%

%lamp = 56.9%

Conical surface Flux(120deg): 1971.2 lm

%lum = 81.9%

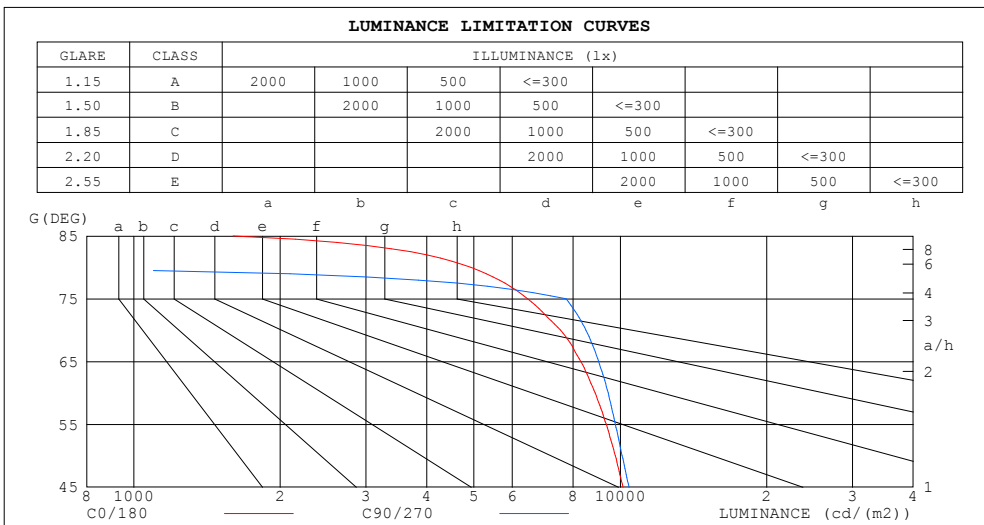
%lamp = 81.9%

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

LUMINANCE LIMITATION CURVES

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1600	0
80	4932	0
75	6452	7729
70	7535	8502
65	8297	9027
60	8874	9445
55	9355	9771
50	9766	10090
45	10126	10419

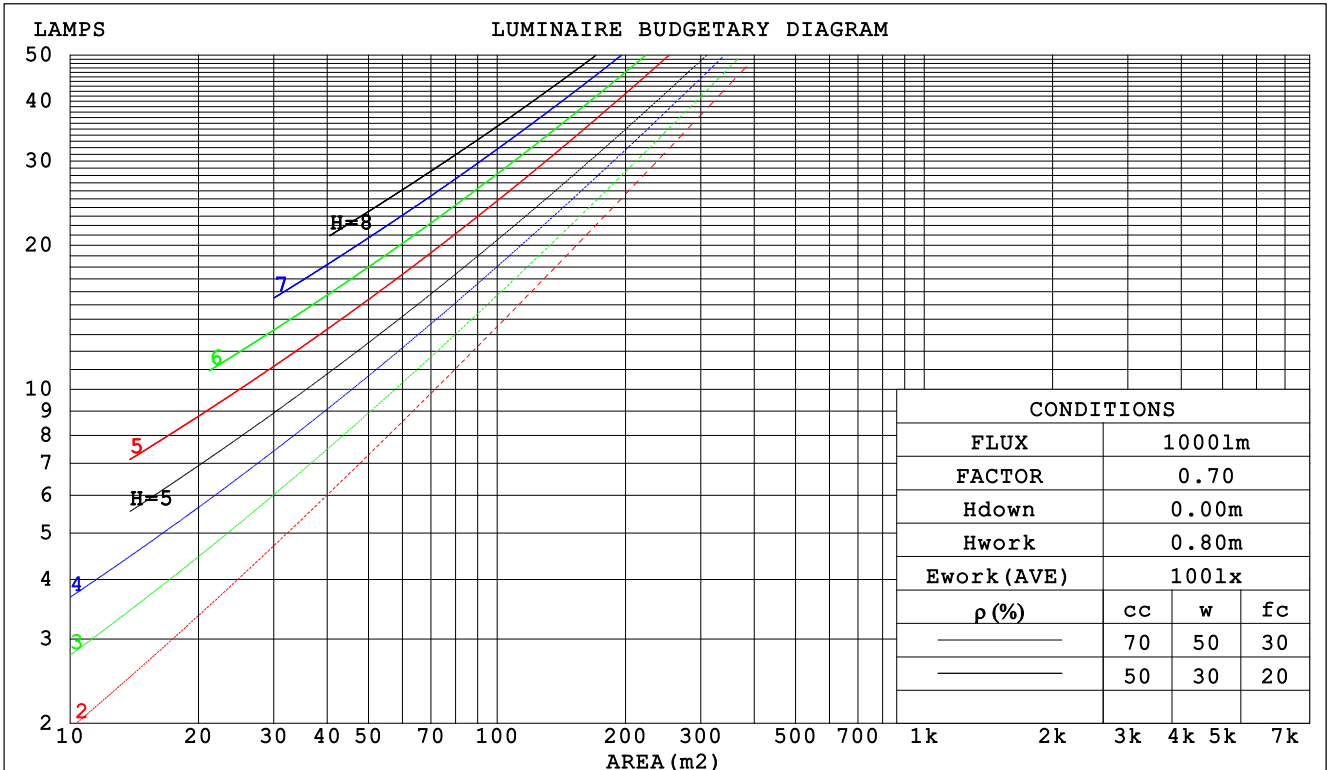
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.77	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

WEC AND CCEC

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.287	.163	.052	.280	.159	.051	.266	.153	.049	.254	.147	.047	.243	.141	.045	
2.0	.277	.152	.047	.270	.149	.046	.259	.144	.045	.248	.139	.044	.238	.135	.043	
3.0	.259	.138	.041	.254	.136	.041	.243	.132	.040	.234	.128	.039	.225	.125	.039	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.219	.117	.035	.211	.115	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.032	.204	.108	.032	.197	.105	.032	
6.0	.208	.104	.030	.205	.103	.030	.197	.101	.029	.191	.099	.029	.185	.097	.029	
7.0	.195	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024	
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023	
10.0	.161	.077	.021	.159	.077	.021	.154	.075	.021	.150	.074	.021	.145	.073	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.011	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.127	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

UGR(Unified Glare Rating) Table

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm										
NAME: GLM-DOS320D-20W(4000K)					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					SUR.:			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	20.6	22.1	20.9	22.3	22.5	20.9	22.4	21.2	22.6	22.8
3H	22.0	23.3	22.3	23.6	23.8	22.4	23.8	22.7	24.0	24.3
4H	22.4	23.7	22.8	24.0	24.2	23.0	24.3	23.3	24.5	24.8
6H	22.7	23.9	23.0	24.2	24.5	23.0	24.3	23.4	24.5	24.8
8H	22.7	23.9	23.1	24.2	24.5	23.0	24.2	23.3	24.4	24.7
12H	22.7	23.8	23.1	24.1	24.4	22.9	24.1	23.3	24.4	24.7
4H 2H	21.3	22.6	21.6	22.8	23.1	21.5	22.8	21.8	23.1	23.3
3H	22.8	23.9	23.1	24.2	24.5	23.2	24.3	23.5	24.6	24.9
4H	23.4	24.4	23.8	24.7	25.1	23.9	24.9	24.3	25.2	25.6
6H	23.8	24.7	24.1	25.0	25.4	24.0	24.9	24.4	25.2	25.6
8H	23.8	24.7	24.2	25.0	25.4	23.9	24.8	24.3	25.1	25.5
12H	23.8	24.6	24.2	25.0	25.4	23.9	24.7	24.3	25.0	25.4
8H 4H	23.7	24.5	24.1	24.9	25.3	24.1	24.9	24.5	25.3	25.7
6H	24.2	24.9	24.6	25.3	25.7	24.2	24.9	24.7	25.3	25.8
8H	24.3	24.9	24.7	25.3	25.8	24.2	24.8	24.7	25.2	25.7
12H	24.3	24.8	24.8	25.3	25.7	24.2	24.7	24.6	25.1	25.6
12H 4H	23.6	24.4	24.1	24.8	25.2	24.1	24.9	24.5	25.3	25.7
6H	24.1	24.8	24.6	25.2	25.6	24.3	24.9	24.7	25.3	25.7
8H	24.3	24.8	24.8	25.3	25.7	24.2	24.7	24.7	25.2	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 2407 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.1)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

UTILIZATION FACTORS TABLE

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

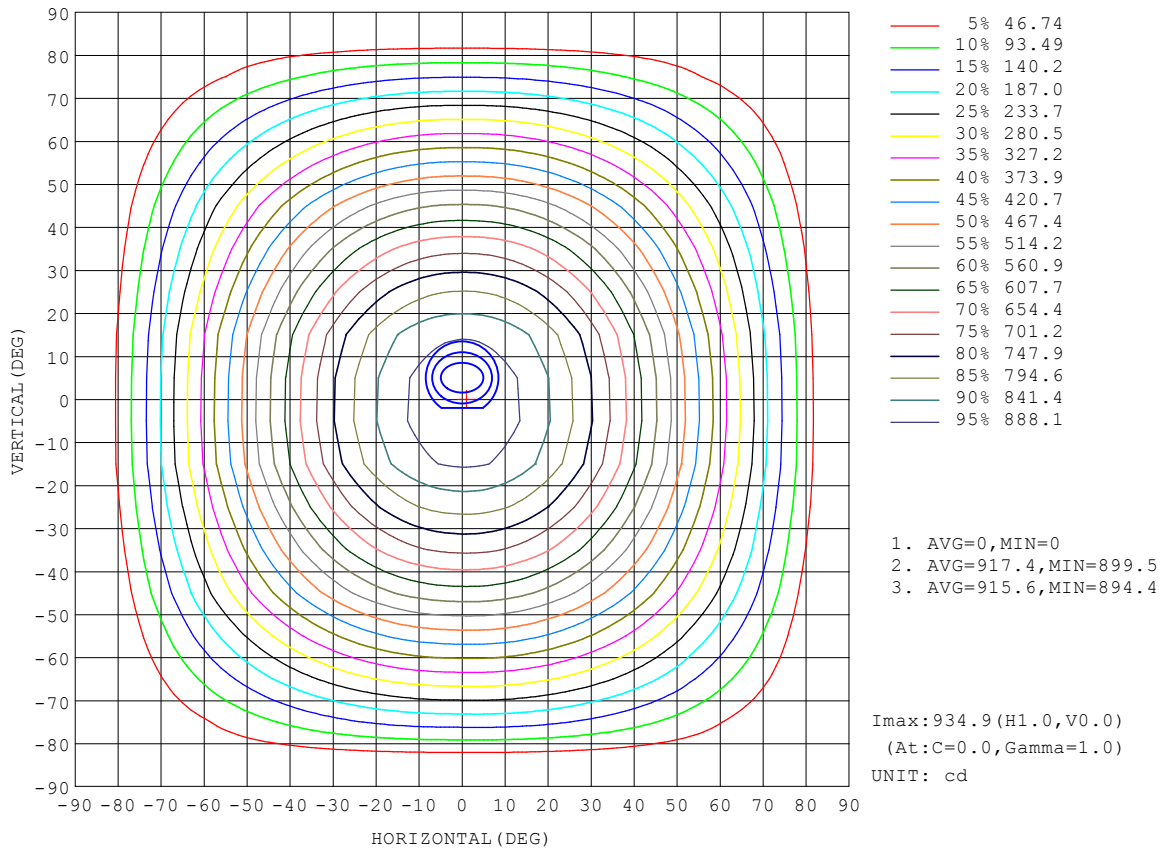
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	59	48	41	58	48	41	57	47	41	34
0.80	69	58	51	68	58	51	67	57	50	44
1.00	78	67	60	77	66	60	74	68	59	52
1.25	85	75	68	83	74	67	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	92	86	94	89	84	76
3.00	103	97	92	101	95	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

ISOCANDELA DIAGRAM

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

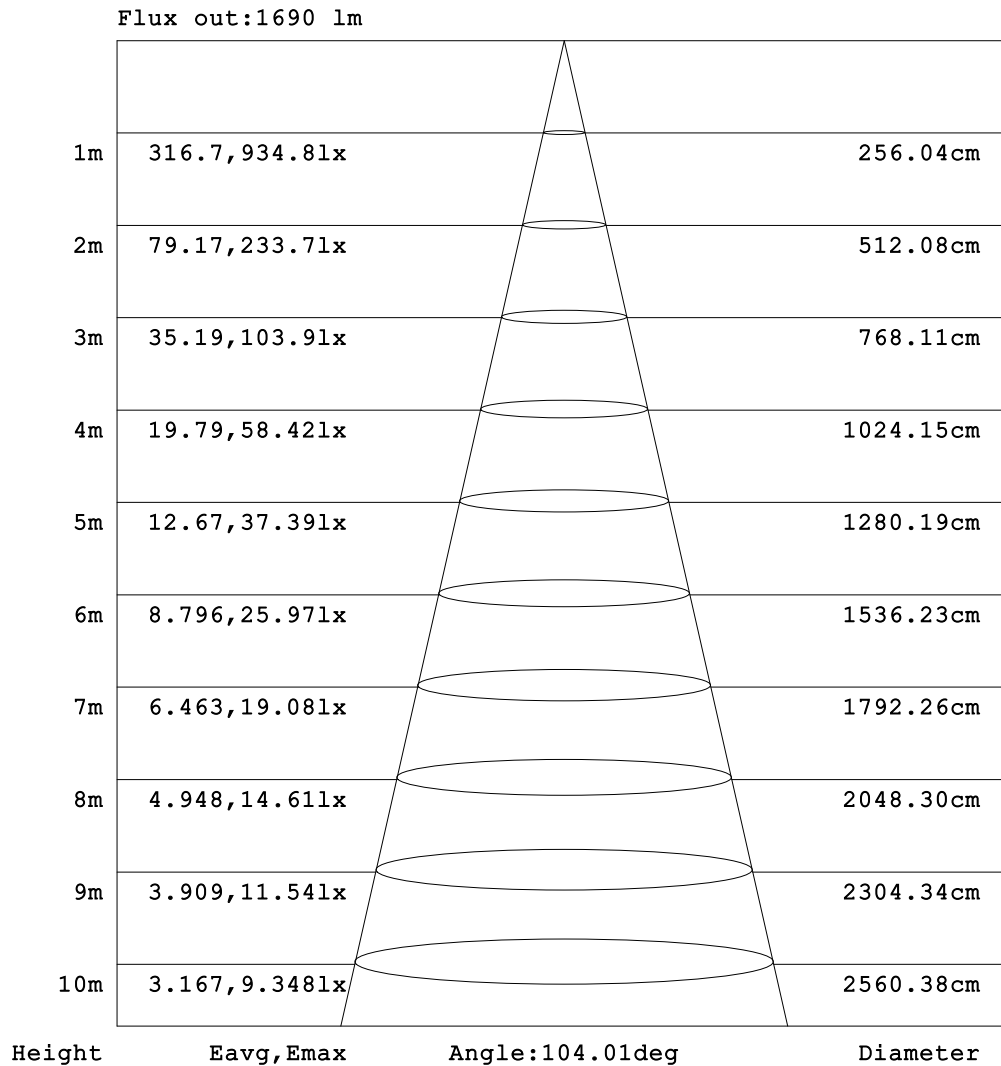


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:7.500m [K=1.0667]
 Remarks: TÜV RHEINLAND

AAI Figure

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



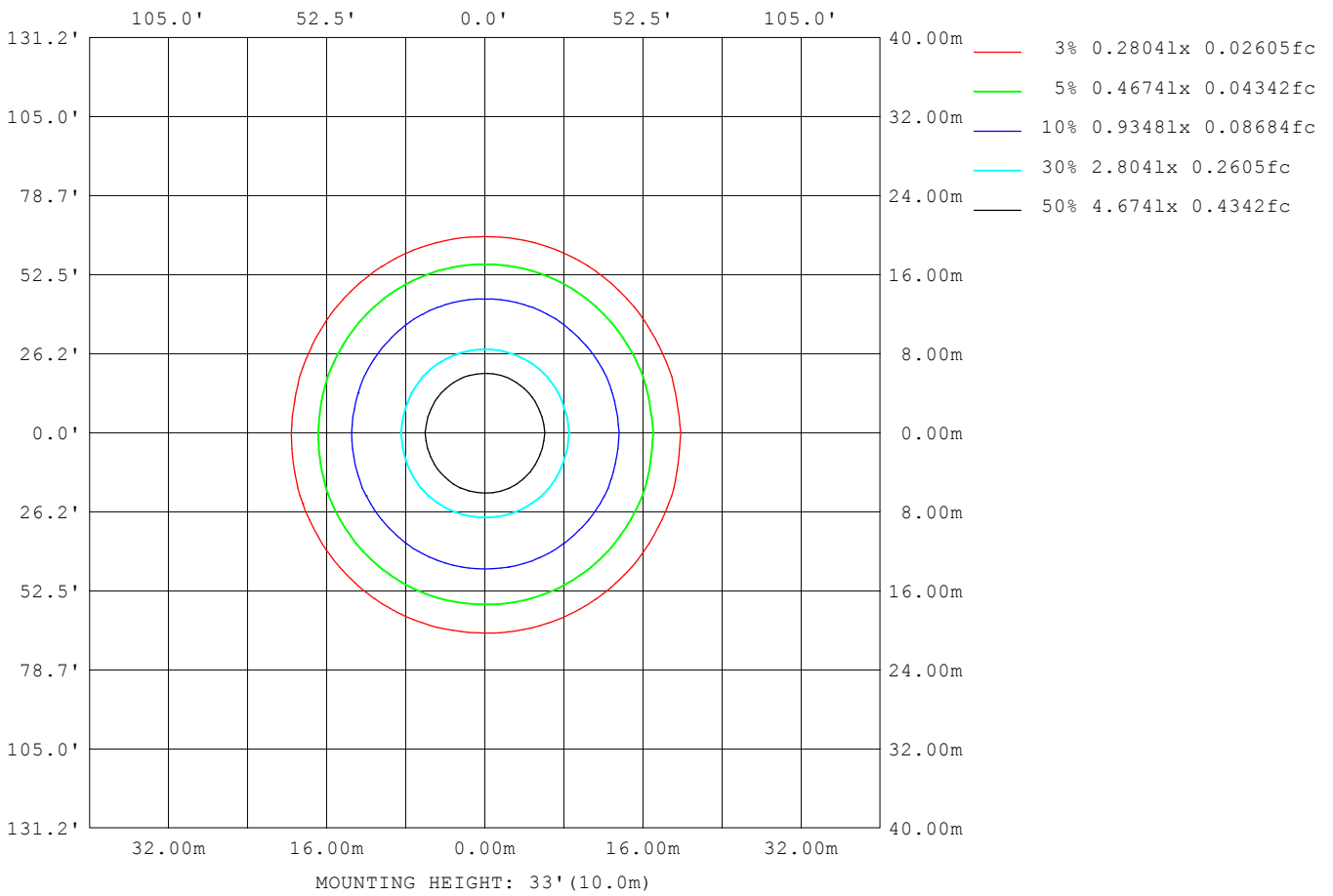
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

ISOLUX DIAGRAM

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:7.500m [K=1.0667]
 Remarks: TÜV RHEINLAND

LED Avg.L Report

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

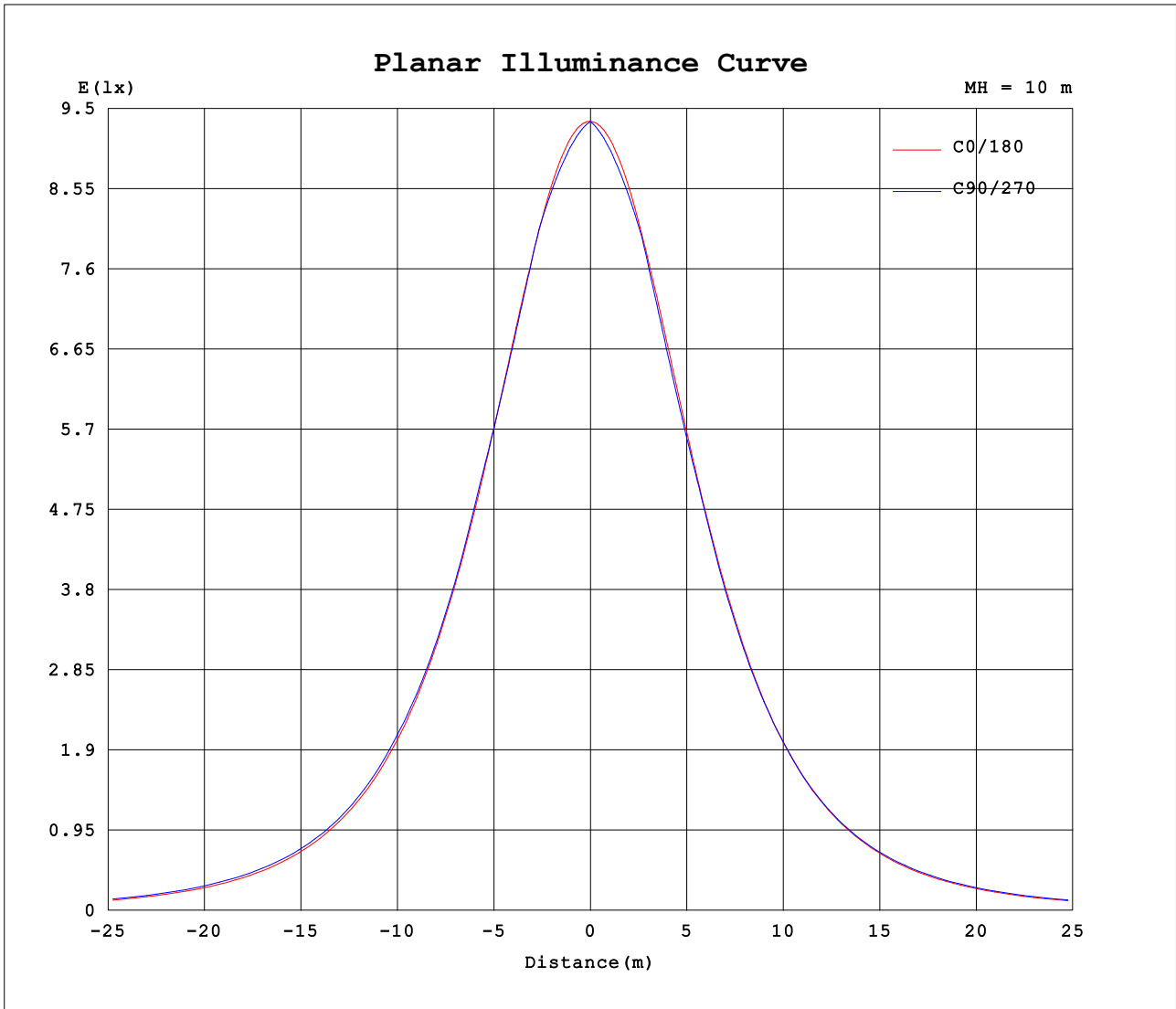
AvgL	cd/m2
L_0~180 (65) av	8093
L_0~180 (75) av	6140
L_0~180 (85) av	807
L_90~270 (65) av	8675
L_90~270 (75) av	7194
L_90~270 (85) av	0
L_45 (65) av	8464
L_45 (75) av	6953
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935
5	931	930	929	928	927	926	925	925	924	924	923	923	922	922	922	922	922	921	921
10	917	915	913	911	910	909	908	908	908	907	907	907	908	908	908	908	908	908	908
15	892	889	887	885	884	884	884	884	885	886	888	889	890	892	893	894	894	894	894
20	858	854	851	850	850	850	852	854	857	861	861	859	858	857	856	855	854	853	853
25	814	809	807	806	807	810	814	819	816	815	814	813	813	813	813	813	813	812	812
30	762	757	755	756	759	764	765	763	763	763	764	766	767	769	770	771	771	771	771
35	704	699	697	699	705	706	705	705	707	710	714	718	716	715	714	713	712	711	710
40	641	635	635	639	643	641	642	646	650	654	653	652	652	652	652	652	652	651	650
45	573	568	569	575	574	575	579	586	584	584	585	586	588	589	590	591	591	590	589
50	502	498	500	503	504	508	514	512	513	515	518	521	523	522	522	522	521	520	519
55	429	425	430	430	434	439	438	440	444	448	448	449	450	450	451	451	451	450	448
60	355	352	356	357	363	363	365	370	371	372	374	376	378	379	380	380	380	379	378
65	281	278	281	286	286	289	293	294	297	299	302	304	306	307	307	308	308	307	305
70	206	206	208	211	214	216	218	222	225	227	229	231	233	234	235	235	235	234	233
75	134	135	137	141	142	145	147	151	154	156	158	159	160	161	162	162	162	161	160
80	68.5	70.0	71.3	73.5	76.5	78.7	81.2	83.5	85.5	77.2	64.8	52.1	39.8	28.5	18.7	10.7	4.80	1.20	0.00
85	11.2	0.65	8.25	12.4	16.2	11.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935
5	921	921	921	921	921	921	922	922	922	923	923	924	925	925	926	927	928	929	928
10	908	907	907	907	906	906	906	906	905	905	906	906	907	907	908	910	912	914	911
15	894	893	892	891	890	889	887	885	884	882	881	880	880	880	881	882	885	888	884
20	853	853	853	854	855	855	857	858	858	854	851	848	846	845	845	846	848	852	847
25	811	811	811	811	810	810	810	810	811	813	815	810	806	803	801	801	803	807	802
30	770	769	768	767	765	764	762	760	759	759	759	761	759	754	750	749	751	755	749
35	710	710	710	711	711	712	712	709	705	702	700	700	702	700	694	691	692	696	690
40	649	649	649	649	649	648	648	647	648	644	640	637	636	638	633	628	627	631	625
45	589	589	588	588	586	584	582	580	579	578	578	572	568	568	569	561	559	563	557
50	519	519	519	519	519	519	518	514	510	507	505	505	500	496	496	492	488	491	486
55	448	448	448	448	447	446	445	443	443	438	433	430	429	424	421	422	416	417	413
60	378	378	378	377	375	373	371	369	367	365	363	357	353	353	347	347	341	342	338
65	305	305	305	304	303	301	299	296	293	290	287	285	281	276	274	271	268	267	265
70	233	233	232	232	230	228	226	223	221	217	214	210	208	205	199	196	195	192	191
75	160	160	160	159	158	156	154	152	150	147	143	140	136	132	129	126	122	121	119
80	1.19	4.74	10.5	18.3	27.8	38.6	50.1	61.6	72.5	79.2	76.9	74.2	71.0	66.7	61.6	58.0	55.2	54.5	53.6
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.23	9.04	7.88	0.58	0.01	0.10	0.47
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935
5	927	925	924	923	922	922	921	920	920	919	919	918	918	918	918	918	918	918	918
10	909	907	905	904	903	902	901	901	901	901	901	901	901	901	901	901	901	901	902
15	881	879	877	876	876	876	876	877	878	879	881	882	883	884	884	884	885	885	884
20	844	842	841	841	842	844	846	849	849	846	845	843	842	841	841	840	840	841	841
25	799	797	797	799	802	807	803	800	798	797	797	796	796	796	796	796	796	796	797
30	746	746	747	752	752	749	747	746	746	747	748	749	750	751	751	752	752	752	752
35	687	688	693	693	690	688	689	690	692	695	694	693	692	691	690	690	690	690	691
40	624	627	630	626	625	626	629	631	629	629	628	628	628	628	628	628	627	628	629
45	557	562	558	557	559	563	561	561	561	562	563	564	565	565	566	565	565	565	566
50	487	489	486	488	491	489	490	491	493	496	497	496	496	496	495	495	494	495	496
55	416	413	414	417	415	417	419	423	423	423	423	424	425	425	425	424	424	424	425
60	342	339	342	340	342	346	347	347	348	350	351	352	353	354	354	354	353	354	355
65	265	266	265	268	270	271	272	274	276	278	279	281	282	282	282	282	281	282	283
70	190	190	193	196	197	199	201	203	205	206	208	209	210	210	210	210	210	210	211
75	120	121	123	125	128	130	132	134	135	136	137	138	138	139	139	138	138	138	139
80	56.1	56.8	59.0	62.1	63.9	65.2	66.2	60.9	52.3	42.7	33.0	23.9	15.8	9.07	4.09	1.03	0.00	1.03	4.10
85	4.45	7.66	4.95	6.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.43V I:0.0879A P:19.161W PF:0.9709 Freq:49.99Hz Lamp Flux:2406.96x1 lm		
NAME: GLM-DOS320D-20W(4000K)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	935	935	935	935	935	935	935	935	935	935	935	935	935	935	935				
5	919	919	919	920	920	921	921	922	923	924	925	926	927	928	929				
10	902	902	902	902	902	902	903	903	904	905	906	908	910	912	914				
15	884	884	883	882	881	880	879	879	879	879	880	881	883	885	888				
20	842	844	845	847	849	851	852	849	847	846	845	845	847	849	853				
25	797	798	799	799	800	802	804	806	810	806	803	802	802	804	808				
30	752	752	752	751	750	750	750	751	753	756	756	752	751	752	756				
35	693	694	695	697	699	697	695	693	693	694	697	697	694	694	697				
40	630	630	631	631	632	634	636	635	632	630	631	635	633	631	633				
45	567	567	566	566	565	565	565	567	570	565	563	565	568	564	566				
50	497	498	498	499	498	497	495	495	496	498	495	493	496	495	495				
55	426	426	426	426	426	426	426	424	422	422	425	422	421	424	422				
60	355	355	355	354	353	352	351	351	351	349	348	351	348	350	349				
65	283	283	283	282	281	280	278	277	276	275	274	274	276	274	275				
70	211	211	211	210	209	208	207	206	202	201	201	201	200	201	202				
75	139	139	139	139	138	137	136	135	133	132	130	130	130	130	131				
80	9.11	15.9	24.1	33.3	43.1	53.0	62.0	67.8	67.3	66.5	65.6	64.9	63.9	63.7	65.1				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.39	7.08	9.27	9.48	6.96				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:24 Aug 2023

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:7.500m [K=1.0667]
Remarks: TÜV RHEINLAND