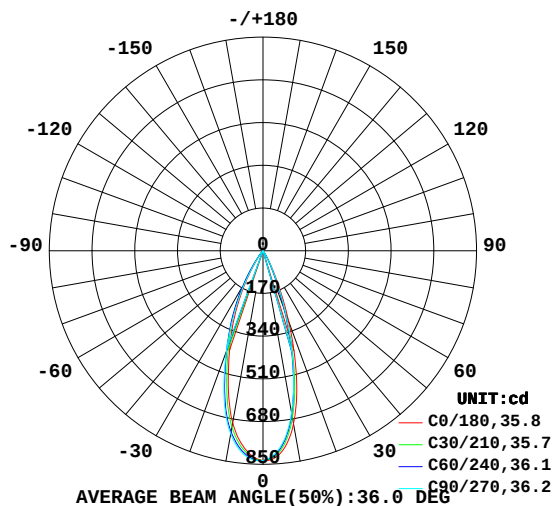


LUMINAIRE PHOTOMETRIC TEST REPORT

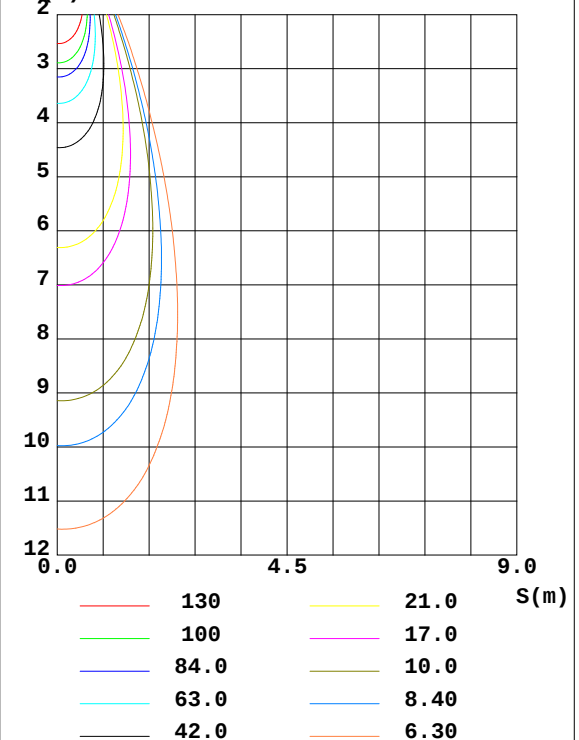
NAME: VM050-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 65.25 lm/W
MODEL	VM050-VF51RA01-5W	Imax(cd)	836.6	S/MH(C0/180)	0.60	
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.65	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	334.75	η UP, DN(C0-180)	1.3, 42.3	
NOMINAL FLUX(lm)	334.754	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.1, 55.3	
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	97.6	CIBSE SHR MAX	0.60	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

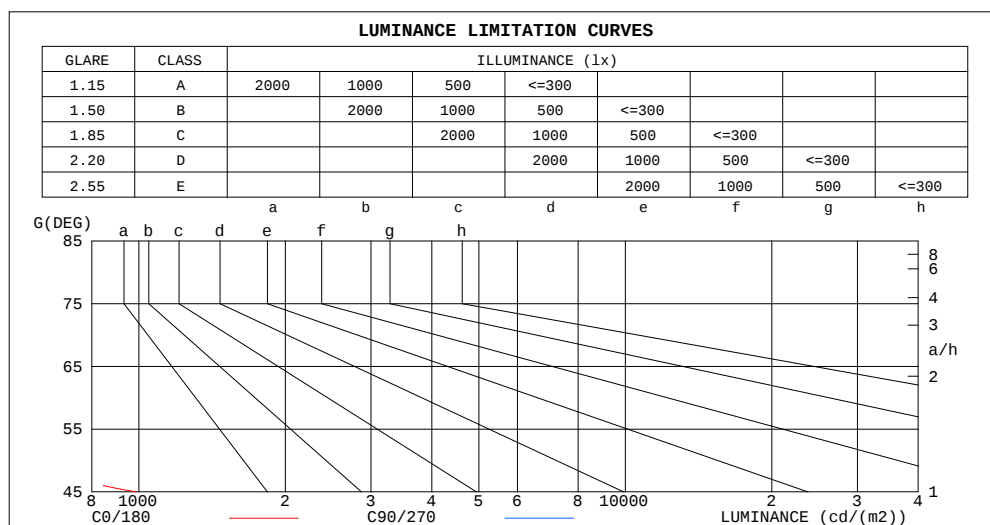
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	699.8	670.9	655.5	674.5	694.9	719.1	739.8	728.0	0- 10	73.20	73.20	21.9, 21.9
20	299.5	255.9	259.7	333.1	378.4	411.0	426.2	375.6	10- 20	143.4	216.7	64.7, 64.7
30	47.00	35.62	39.43	68.12	117.7	153.8	134.1	80.06	20- 30	87.84	304.5	91, 91
40	3.229	2.353	2.509	3.953	8.637	14.02	12.16	5.998	30- 40	20.21	324.7	97, 97
50	0.4532	0.3460	0.3258	0.3661	0.4159	0.5223	0.6151	0.5334	40- 50	1.521	326.2	97.5, 97.5
60	0.0686	0.0486	0.0552	0.0574	0.0528	0.0796	0.0771	0.0952	50- 60	0.1725	326.4	97.5, 97.5
70	0.0507	0.0530	0.0464	0.0597	0.0441	0.0486	0.0464	0.0508	60- 70	0.0531	326.5	97.5, 97.5
80	0.0617	0.0663	0.0663	0.0641	0.0552	0.0464	0.0508	0.0486	70- 80	0.0573	326.5	97.5, 97.5
90	0.0684	0.0685	0.0708	0.0773	0.0640	0.0574	0.0662	0.0618	80- 90	0.0673	326.6	97.6, 97.6
100	0.0707	0.0751	0.0729	0.0751	0.0707	0.0685	0.0751	0.0663	90-100	0.0752	326.7	97.6, 97.6
110	0.1103	0.1547	0.1345	0.1128	0.0950	0.0728	0.0906	0.0950	100-110	0.0873	326.7	97.6, 97.6
120	0.4560	0.5547	0.5142	0.3916	0.2894	0.2270	0.2523	0.3443	110-120	0.2078	326.9	97.7, 97.7
130	1.327	1.487	1.477	1.241	1.014	0.8735	0.9094	1.117	120-130	0.6458	327.6	97.9, 97.9
140	2.714	2.916	2.922	2.636	2.343	2.173	2.183	2.452	130-140	1.402	329.0	98.3, 98.3
150	4.092	4.256	4.290	4.063	3.823	3.664	3.696	3.906	140-150	2.044	331.0	98.9, 98.9
160	4.594	4.619	4.733	4.659	4.605	4.579	4.647	4.628	150-160	2.029	333.1	99.5, 99.5
170	4.164	4.118	4.241	4.307	4.289	4.399	4.414	4.350	160-170	1.287	334.4	99.9, 99.9
180	4.025	4.089	4.077	4.170	4.027	4.087	4.088	4.170	170-180	0.3982	334.8	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-8-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: VM050-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	585	567
80	257	276
75	154	160
70	107	98
65	87	91
60	99	80
55	231	162
50	510	366
45	988	786

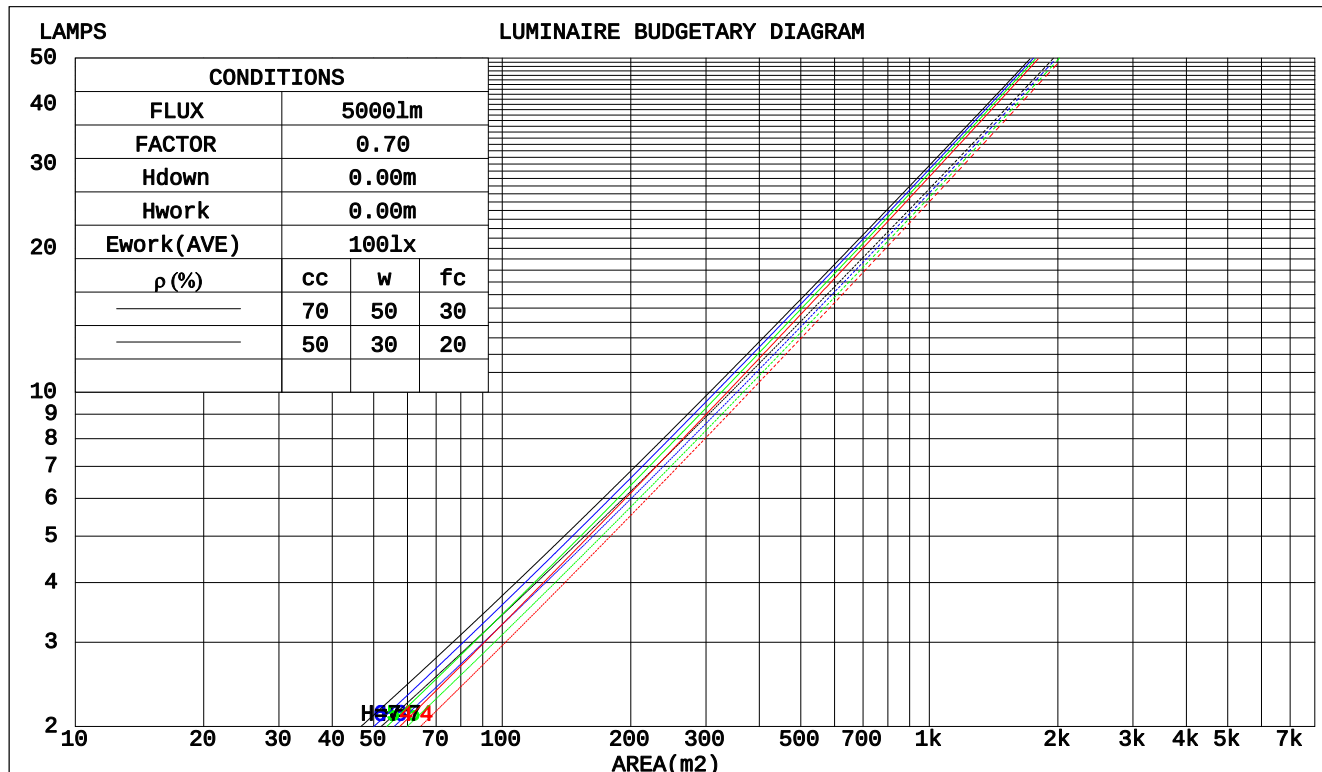
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.12	1.09	1.08	1.09	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.97	.96	.95	.93
2.0	1.06	1.02	.99	1.04	1.01	.98	1.00	.98	.96	.97	.95	.93	.94	.92	.91	.89
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.93	.91	.89	.91	.89	.87	.85
4.0	.95	.91	.88	.94	.90	.87	.92	.88	.86	.90	.87	.84	.88	.85	.83	.82
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.82	.86	.83	.81	.85	.82	.80	.78
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.79	.75	.83	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.72	.80	.75	.72	.78	.74	.71	.77	.74	.71	.76	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.75	.71	.69	.75	.71	.68	.74	.70	.68	.67
10.0	.74	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.71	.68	.66	.64



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.151	.086	.027	.144	.082	.026	.130	.075	.024	.117	.068	.022	.105	.061	.020		
2.0	.141	.077	.024	.135	.074	.023	.124	.069	.021	.113	.063	.020	.103	.058	.018		
3.0	.133	.071	.021	.128	.068	.021	.118	.064	.019	.109	.059	.018	.100	.055	.017		
4.0	.125	.065	.019	.121	.063	.019	.112	.060	.018	.104	.056	.017	.097	.053	.016		
5.0	.119	.061	.018	.115	.059	.017	.108	.056	.016	.101	.053	.016	.094	.050	.015		
6.0	.113	.057	.016	.110	.055	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014		
7.0	.108	.053	.015	.105	.052	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014		
8.0	.103	.050	.014	.101	.050	.014	.095	.048	.014	.091	.046	.013	.086	.044	.013		
9.0	.099	.048	.013	.097	.047	.013	.092	.045	.013	.088	.044	.013	.084	.042	.012		
10.0	.095	.046	.013	.093	.045	.013	.089	.043	.012	.085	.042	.012	.081	.041	.012		

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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.188	.176	.166	.161	.151	.143	.110	.104	.099	.063	.060	.057	.020	.019	.019		
2.0	.171	.152	.135	.147	.130	.117	.100	.090	.081	.058	.052	.048	.019	.017	.016		
3.0	.157	.132	.113	.135	.114	.098	.092	.079	.069	.053	.046	.040	.017	.015	.013		
4.0	.145	.117	.096	.125	.101	.083	.086	.071	.059	.050	.041	.035	.016	.013	.011		
5.0	.136	.105	.083	.117	.091	.072	.080	.064	.051	.046	.037	.030	.015	.012	.010		
6.0	.127	.096	.073	.109	.083	.063	.076	.058	.045	.044	.034	.027	.014	.011	.009		
7.0	.120	.088	.065	.104	.076	.057	.072	.053	.040	.042	.031	.024	.013	.010	.008		
8.0	.114	.081	.058	.098	.070	.051	.068	.049	.036	.040	.029	.022	.013	.010	.007		
9.0	.109	.076	.053	.094	.066	.047	.065	.046	.033	.038	.027	.020	.012	.009	.007		
10.0	.104	.071	.049	.090	.062	.043	.062	.044	.030	.036	.026	.018	.012	.008	.006		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	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	8.7	9.5	9.0	9.7	9.9	7.5	8.3	7.8	8.5	8.7
3H	8.6	9.3	8.9	9.5	9.7	7.4	8.1	7.7	8.3	8.5
4H	8.5	9.1	8.8	9.4	9.6	7.3	7.9	7.6	8.2	8.5
6H	8.4	9.0	8.7	9.3	9.6	7.2	7.8	7.6	8.1	8.4
8H	8.4	9.0	8.7	9.3	9.6	7.2	7.8	7.5	8.1	8.4
12H	8.4	8.9	8.7	9.2	9.5	7.2	7.8	7.5	8.1	8.4
4H 2H	8.5	9.1	8.8	9.4	9.6	7.3	7.9	7.6	8.2	8.4
3H	8.3	8.9	8.7	9.2	9.5	7.1	7.7	7.5	8.0	8.3
4H	8.2	8.7	8.6	9.1	9.4	7.0	7.5	7.4	7.9	8.2
6H	8.1	8.6	8.5	9.0	9.3	7.0	7.4	7.4	7.8	8.2
8H	8.1	8.5	8.5	8.9	9.3	6.9	7.4	7.4	7.8	8.2
12H	8.1	8.5	8.5	8.9	9.3	7.0	7.3	7.4	7.7	8.2
8H 4H	8.1	8.5	8.5	8.9	9.3	6.9	7.3	7.3	7.7	8.1
6H	8.0	8.3	8.5	8.8	9.2	6.8	7.2	7.3	7.6	8.1
8H	8.0	8.3	8.5	8.7	9.2	6.8	7.1	7.3	7.6	8.1
12H	8.0	8.2	8.5	8.7	9.2	6.9	7.1	7.4	7.6	8.1
12H 4H	8.0	8.4	8.5	8.8	9.2	6.8	7.2	7.3	7.6	8.1
6H	7.9	8.2	8.4	8.7	9.2	6.8	7.1	7.3	7.5	8.0
8H	7.9	8.2	8.4	8.7	9.2	6.8	7.0	7.3	7.5	8.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.7 / - 7.3					+ 4.4 / - 6.2				
1.5H	+ 7.3 / - 7.1					+ 6.9 / - 6.0				
2.0H	+ 3.8 / - 1.4					+ 3.0 / - 1.0				

CIE Pub.117, 334.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.8)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

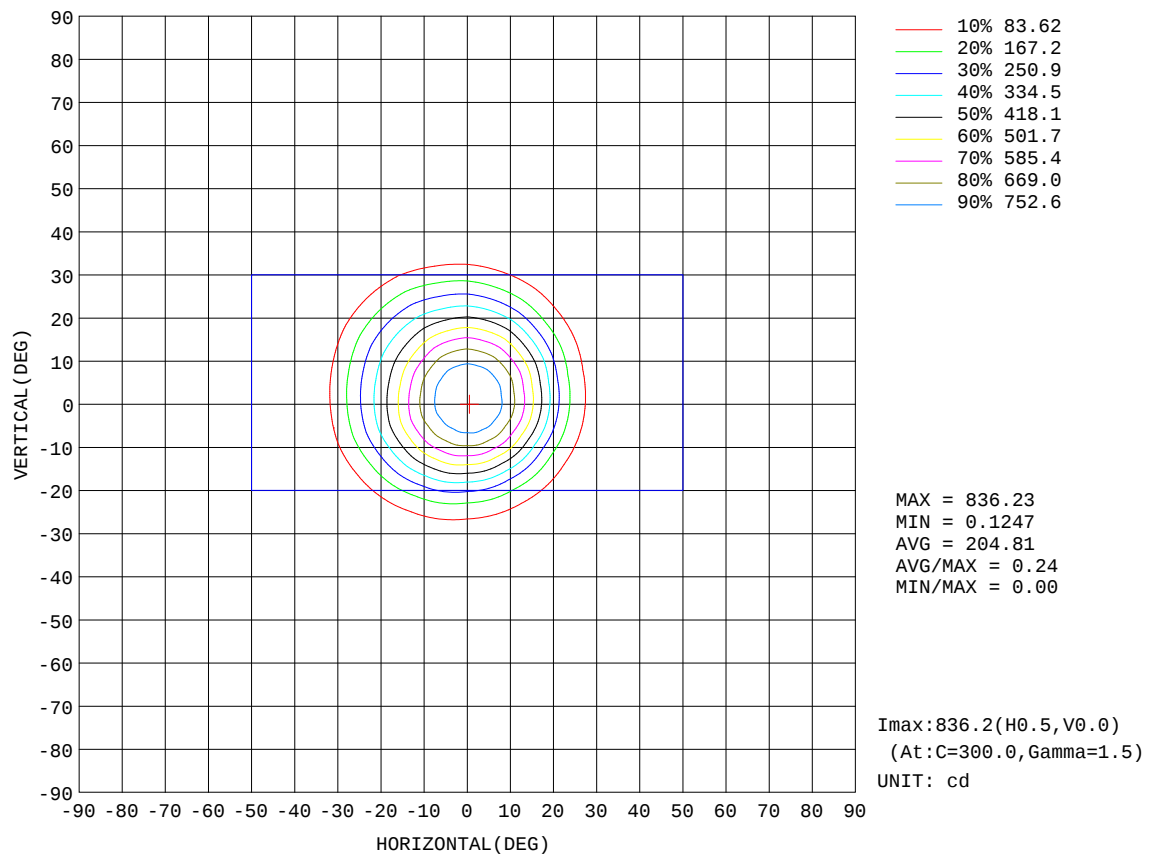
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	90	84	81	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	95	92	100	95	92	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	90
1.50	107	102	99	105	101	99	103	100	97	93
2.00	109	105	102	107	104	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	94
3.00	112	109	106	110	107	105	106	104	102	95
4.00	114	111	109	111	109	108	107	106	104	97
5.00	115	113	111	113	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: VM050-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

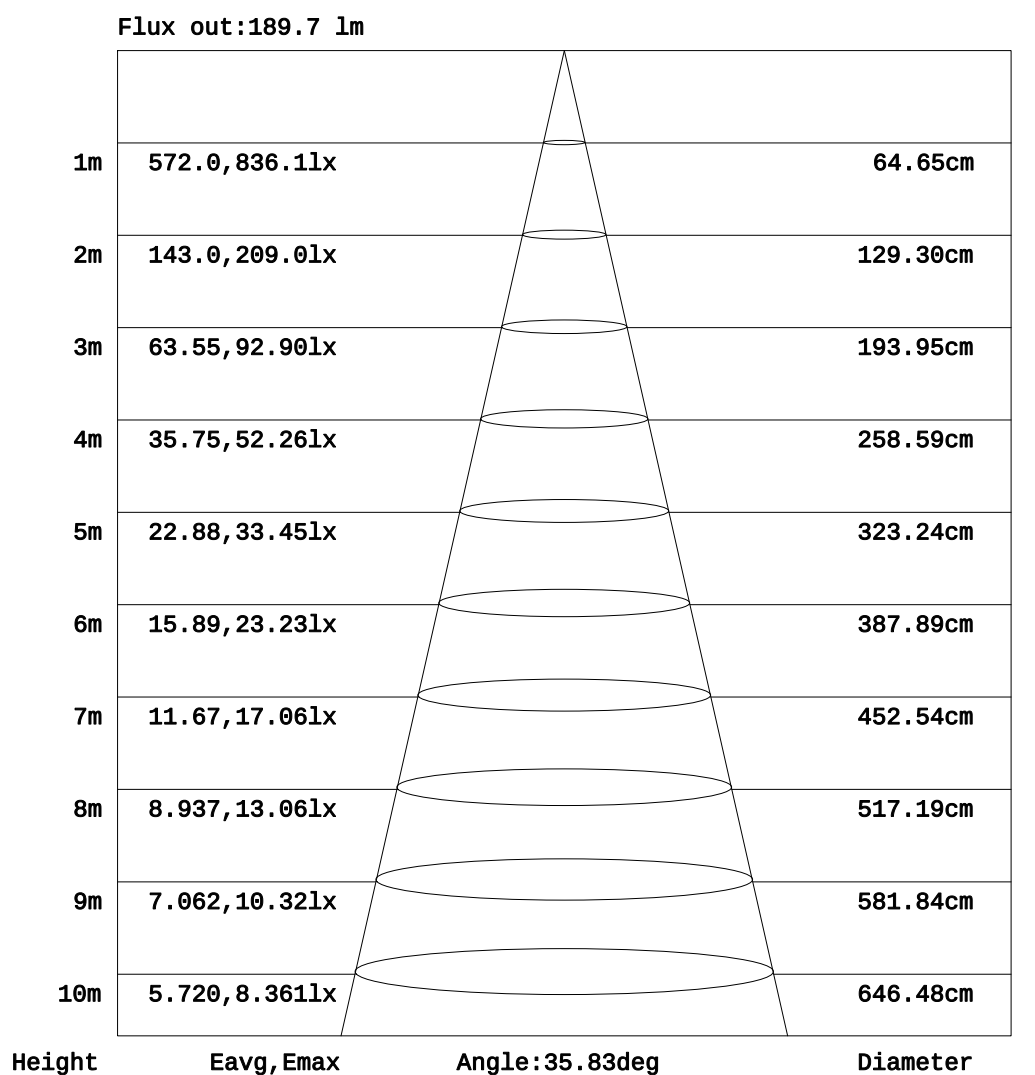


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

AAI Figure

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



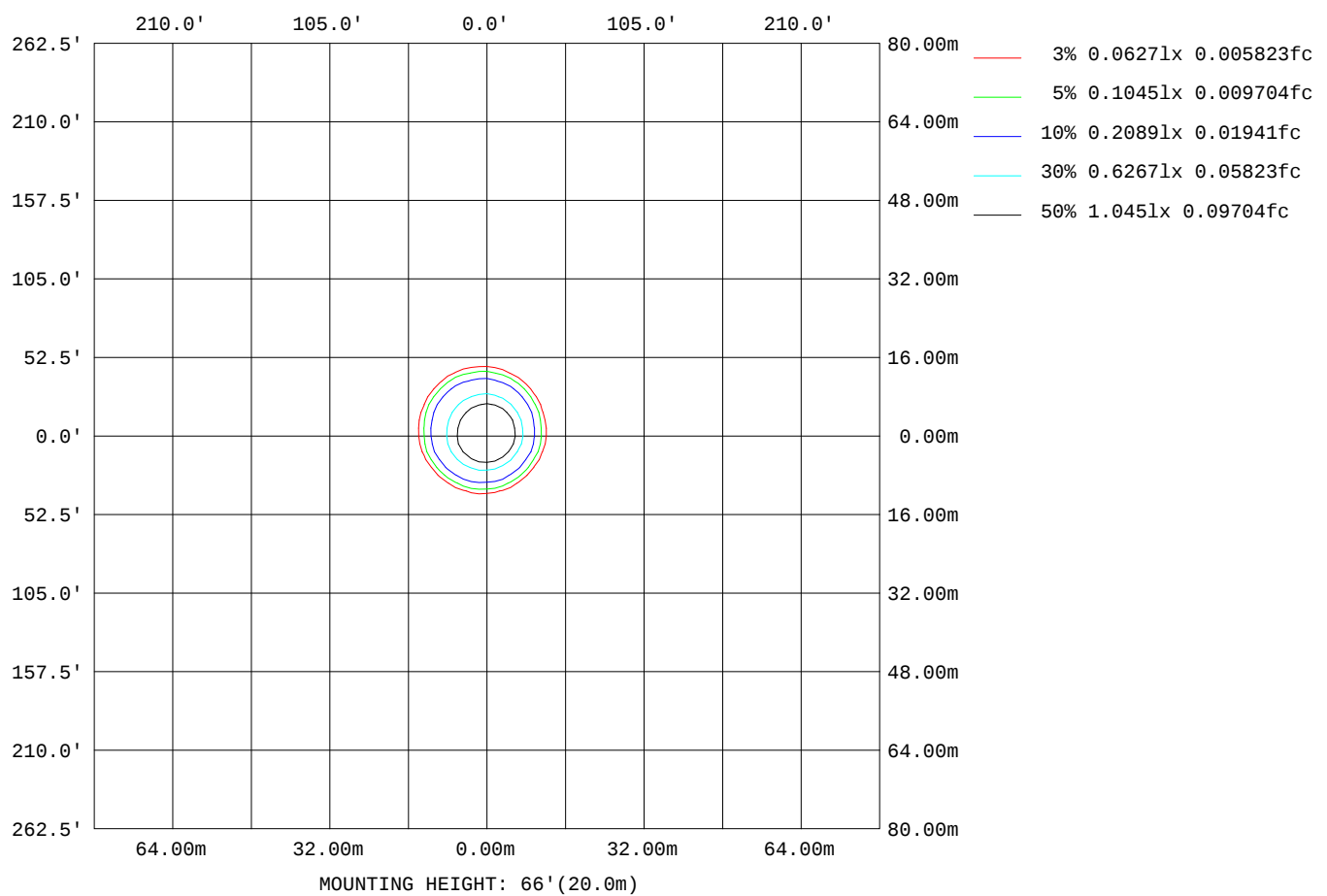
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: VM050-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-8-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

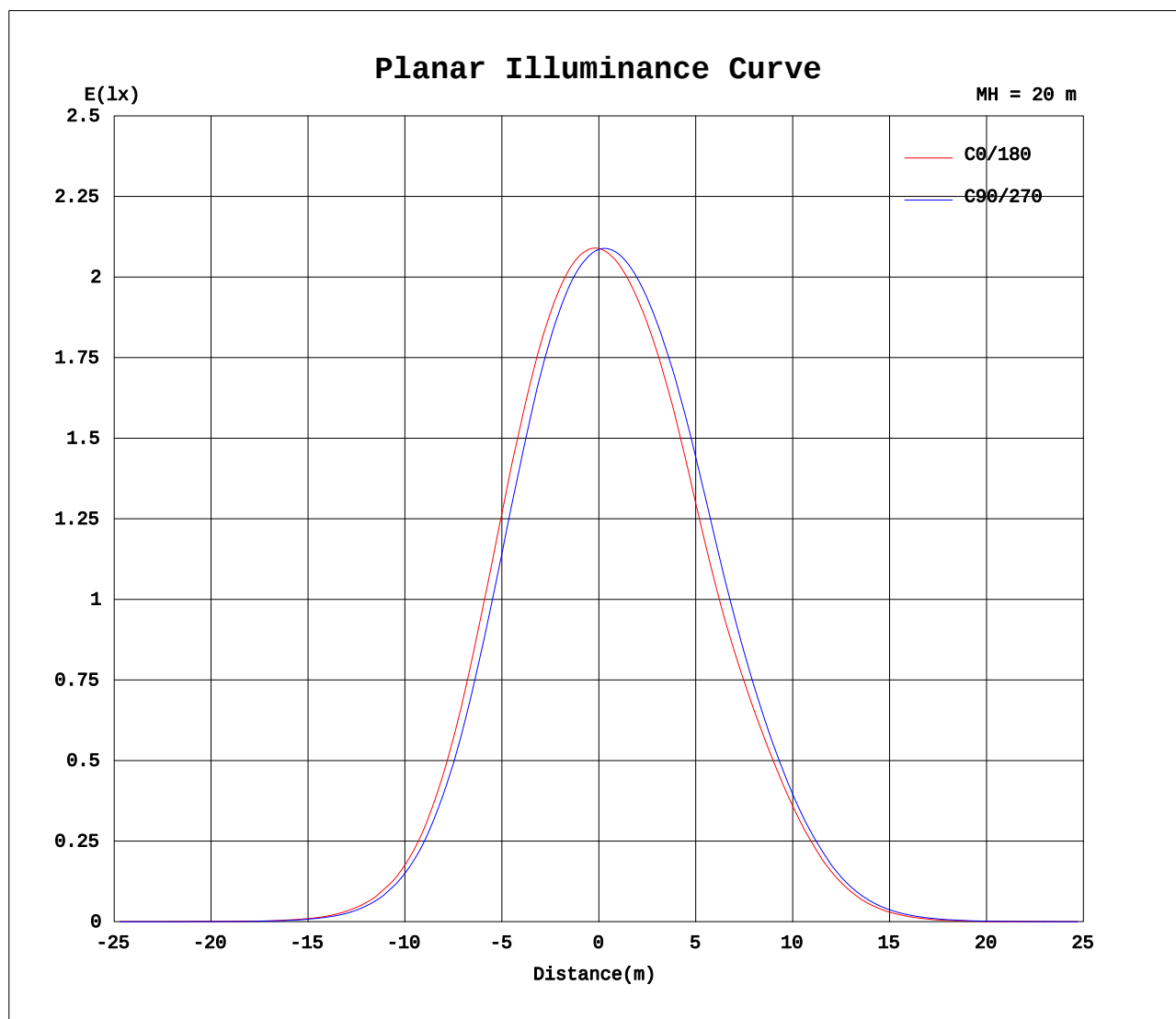
AvgL	cd/m2
L_0~180(65)av	81
L_0~180(75)av	145
L_0~180(85)av	566
L_90~270(65)av	85
L_90~270(75)av	145
L_90~270(85)av	522
L_45(65)av	92
L_45(75)av	153
L_45(85)av	485

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	835	835	835	835	835	835	835	835	835	835	835	835	835	835	835	835	835	835	835
5	808	805	799	797	791	790	785	786	784	787	788	794	794	797	803	806	812	814	818
10	700	691	674	671	660	661	656	663	663	674	679	694	695	700	712	719	732	735	740
15	514	499	476	470	456	461	460	479	489	509	517	535	535	541	558	570	590	593	600
20	299	282	259	256	247	255	260	284	303	333	351	374	378	385	402	411	424	421	426
25	133	123	107	105	102	109	114	134	148	177	200	231	242	256	274	280	285	272	267
30	47.0	42.4	36.6	35.6	34.4	37.3	39.4	46.7	54.3	68.1	83.4	106	118	132	150	154	156	141	134
35	13.2	11.8	9.87	9.47	9.10	10.1	10.7	12.6	14.3	18.6	24.0	33.5	39.1	46.1	55.1	58.6	59.0	52.0	47.0
40	3.23	2.93	2.47	2.35	2.24	2.41	2.51	2.88	3.09	3.95	5.01	7.29	8.64	10.5	13.2	14.0	15.1	13.3	12.2
45	0.97	0.92	0.83	0.80	0.77	0.77	0.77	0.80	0.82	0.90	1.01	1.26	1.38	1.58	1.97	2.13	2.56	2.53	2.48
50	0.45	0.41	0.38	0.35	0.33	0.32	0.33	0.34	0.35	0.37	0.39	0.42	0.42	0.45	0.49	0.52	0.59	0.60	0.62
55	0.18	0.15	0.16	0.13	0.13	0.11	0.13	0.11	0.13	0.12	0.14	0.13	0.13	0.16	0.16	0.19	0.20	0.22	0.23
60	0.07	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.07	0.06	0.08	0.07	0.09	0.08
65	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.04	0.05	0.04	0.06	0.04	0.05	0.05
70	0.05	0.06	0.05	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.04	0.05	0.04	0.05	0.04	0.05	0.05
75	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
80	0.06	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05
85	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.05	0.06	0.05	0.05	0.05	0.06
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.07
95	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.08	0.07	0.07	0.06	0.07	0.07	0.07	0.07
100	0.07	0.07	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.08
105	0.07	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.07	0.09	0.07	0.09	0.09	0.07	0.08	0.07	0.08	0.07	0.08
110	0.11	0.14	0.13	0.15	0.14	0.15	0.13	0.13	0.10	0.11	0.10	0.10	0.10	0.09	0.09	0.07	0.09	0.07	0.09
115	0.23	0.26	0.28	0.30	0.29	0.29	0.26	0.25	0.21	0.20	0.16	0.16	0.15	0.13	0.13	0.11	0.13	0.11	0.13
120	0.46	0.50	0.53	0.55	0.56	0.54	0.51	0.48	0.43	0.39	0.34	0.31	0.29	0.25	0.25	0.23	0.24	0.24	0.25
125	0.81	0.87	0.92	0.94	0.96	0.94	0.92	0.86	0.80	0.74	0.67	0.60	0.57	0.52	0.49	0.46	0.46	0.47	0.50
130	1.33	1.39	1.46	1.49	1.52	1.49	1.48	1.40	1.35	1.24	1.16	1.06	1.01	0.96	0.90	0.87	0.87	0.88	0.91
135	1.98	2.05	2.13	2.16	2.20	2.18	2.16	2.08	2.01	1.89	1.80	1.68	1.62	1.56	1.49	1.46	1.44	1.47	1.49
140	2.71	2.79	2.88	2.92	2.96	2.94	2.92	2.84	2.76	2.64	2.54	2.41	2.34	2.27	2.19	2.17	2.13	2.16	2.18
145	3.46	3.54	3.61	3.65	3.70	3.68	3.67	3.59	3.52	3.40	3.30	3.18	3.10	3.04	2.95	2.93	2.90	2.92	2.95
150	4.09	4.16	4.21	4.26	4.30	4.30	4.29	4.23	4.16	4.06	3.97	3.88	3.82	3.76	3.69	3.66	3.64	3.67	3.70
155	4.50	4.54	4.57	4.61	4.62	4.68	4.67	4.64	4.57	4.51	4.45	4.40	4.36	4.31	4.27	4.25	4.26	4.27	4.31
160	4.59	4.59	4.63	4.62	4.67	4.69	4.73	4.73	4.69	4.66	4.65	4.63	4.60	4.58	4.59	4.58	4.62	4.62	4.65
165	4.42	4.39	4.38	4.41	4.48	4.50	4.54	4.55	4.58	4.58	4.57	4.58	4.53	4.58	4.57	4.62	4.63	4.68	4.67
170	4.16	4.13	4.13	4.12	4.17	4.19	4.24	4.25	4.29	4.31	4.38	4.39	4.29	4.36	4.38	4.40	4.40	4.42	4.41
175	3.98	3.97	3.98	4.01	4.03	4.01	4.01	4.04	4.10	4.17	4.22	4.20	4.05	4.12	4.16	4.20	4.19	4.19	4.18
180	4.02	4.03	4.03	4.09	4.06	4.06	4.08	4.08	4.10	4.17	4.15	4.12	4.03	4.03	4.04	4.09	4.06	4.06	4.09

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM050-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 36D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	835	835	835	835	835														
5	817	818	815	814	808														
10	736	737	728	722	705														
15	591	590	572	557	526														
20	414	405	376	353	316														
25	248	229	198	176	146														
30	115	100	80.1	66.8	53.0														
35	38.7	32.5	24.4	19.6	14.6														
40	9.82	8.19	6.00	4.74	3.52														
45	2.01	1.73	1.37	1.20	1.00														
50	0.59	0.56	0.53	0.50	0.46														
55	0.24	0.23	0.22	0.20	0.19														
60	0.10	0.08	0.10	0.07	0.08														
65	0.06	0.05	0.05	0.05	0.05														
70	0.05	0.05	0.05	0.05	0.05														
75	0.05	0.05	0.05	0.05	0.05														
80	0.05	0.06	0.05	0.06	0.05														
85	0.05	0.06	0.05	0.06	0.06														
90	0.06	0.06	0.06	0.06	0.06														
95	0.07	0.07	0.06	0.07	0.06														
100	0.07	0.07	0.07	0.07	0.07														
105	0.07	0.08	0.07	0.08	0.07														
110	0.08	0.10	0.09	0.12	0.11														
115	0.13	0.16	0.16	0.21	0.22														
120	0.27	0.31	0.34	0.40	0.44														
125	0.54	0.59	0.65	0.72	0.79														
130	0.97	1.03	1.12	1.19	1.29														
135	1.56	1.62	1.73	1.82	1.94														
140	2.26	2.33	2.45	2.54	2.68														
145	3.03	3.09	3.20	3.30	3.43														
150	3.76	3.82	3.91	3.98	4.08														
155	4.34	4.38	4.41	4.46	4.51														
160	4.65	4.66	4.63	4.63	4.66														
165	4.67	4.62	4.58	4.52	4.55														
170	4.41	4.38	4.35	4.31	4.31														
175	4.19	4.20	4.20	4.14	4.13														
180	4.08	4.10	4.17	4.15	4.11														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks: